

Documents of the World Administrative Radio Conference to deal with matters relating to the maritime mobile service (WARC Mar)

(Geneva, 1967)

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- This PDF includes Document DT No. 1 129.
- The complete set of conference documents includes Document No. 1 385, DT No. 1 129.

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INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE



GENEVA, 1967

Document No. DT/1-E 4 August 1967 Original : French/English/ Spanish

PLENARY MEETING

LIST, IN NUMERICAL ORDER, OF THE NUMBERS OF THE RADIO REGULATIONS MENTIONED IN DOCUMENT No. 103

	Numbers	Competent Committee (according to the suggestions made in Document No. 103)
A rt. 7 - <u>Special rules relating to</u> <u>particular services</u>		
- Section IV Maritime Mobile Service	438-442 443-444 445-455 456-457	4 5 4 5
Art. 9 - <u>Notification and registration</u> of frequencies in the <u>Master</u> <u>International Frequency Register</u>	486-639 (especially Nos. 541 to 551 and 573 to 586)	5
Art. 12 - <u>Technical characteristics of</u> equipment and emissions	677	4
Art. 20 - <u>Service documents</u>	789-837	6
Art. 22 - <u>Authority of the Master</u>	845-847	б
Art. 23 - <u>Operators' certificates for</u> <u>ship and aircraft stations</u>	848-911	6



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	Numbers	Competent Committee (according to the suggestions made in Document No. 103)
Art. 24 - <u>Class and minimum number of</u> <u>operators for ship and aircraft</u> <u>stations</u>	912-920	6
Art. 25 - <u>Working hours of stations in the</u> <u>Maritime and Aeronautical Mobile</u> <u>Services</u>		
- Section I Preamble - Section II Coast Stations - Section IV Ship Stations	921-922 923-927 929-946	6 6 6
Art. 26 - <u>Personnel of Coast and</u> <u>Aeronautical Stations</u>	948	6
Art. 28 - <u>Conditions to be observed by</u> <u>Mobile Stations</u>		
- Section I General provisions - Section II Special provisions regarding safety	955-964 965-969	6 6
- Section III Ship stations using Radiotelegraphy - Section IV Ship stations using Radiotelephony	970-982 983-991	4 4
- Section VI Survival craft stations	994-999	4
Art. 29 - <u>General radiotelegraph procedure</u> in the Maritime Mobile and <u>Aeronautical Mobile Services</u>	1000-1062	6
Art. 30 - <u>Calls by radiotelegraphy</u>	1063-1087	6
Art. 31 - <u>Radiotelegraphic call to</u> <u>several stations</u>	1088-1094	6

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	Numbers	Competent Committee (according to the suggestions made in Document No. 103)
Art. 32 - <u>Use of Frequencies for Radiotele-</u> <u>telegraphy in the Maritime Mobile</u> <u>and Aeronautical Mobile Services</u>	1095-1028	4
Art. 33 - <u>General Radiotelephone Procedure in</u> the Maritime Mobile Service	1209–1295	6
Art. 34 - <u>Calls by Radiotelephony</u>	1296-1318	6
Art. 35 - <u>Use of Frequencies for Radiotele-</u> phony in the Maritime Mobile Service	1319-1379	4
Art. 36 - <u>Distress Signal and Traffic. Alarm</u> , <u>Urgency and Safety Signals</u>	1380 - 1495	6
Art. 37 - Order of Priority of Communications in the Mobile Service	1496	6
Art. 38 - <u>Indication of the Station of Origin</u> of Radiotelegrams	1497 -1499	6
Art. 39 - <u>Routing of Radiotelegrams</u>	1500 -1 504	6
Art. 40 - <u>Accounting for Radiotelegrams and</u> <u>Radiotelephone Calls</u>	1505-1559	6

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

CONFERENCE MARITIME

GENÈVE, 1967

Addendum Nº 4 au Document Nº DT/2-F/E/S 28 Septembre 1967

SEANCE PLENIERE PLENARY MEETING SESION PLENARIA

Liste complémentaire des références à de nouvelles propositions qu'il y a lieu d'introduire dans le Document N° DT/2.

Additional list of references to new proposals for inclusion in Document No. DT/2.

Lista complementaria de las referencias a nuevas proposiciones que deben incluirse en el Documento N.º DT/2.



Addendum Nº 4 au Document Nº DT/2-F/E/S Page 2

Page du DT/2 Page of DT/2 Página del DT/2		N° du Doc. dans lequel la proposition a été publiée Doc. No. in which the proposal has been published N.° del Doc. en el que la proposición ha sido publicada	Page Página
1	2	3	4
70	J/173(93) MOD 451	173	1
· .	J/173(94) ADD 451A	tt .	1
117	ALG/179(1) Tableau d'attribu- tion d'indicatifs d'appel	179	-
	Table of Allocation of Call Signs Cuadro de atribución de distintivos de llamada		
257	USA/Add. 22(85) ADD 1159A ADD 1159B	Add. au Doc. 22	1
337	HOL/183(37) ADD 1336A	183	1
538 [,]	G/178(101) App.15	178	1 - 1 3
554	J/173(95) App.15	173	2
635	D/184(30) App.18	184	1 - 4

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

CONFERENCE MARITIME

GENÈVE, 1967

Addendum Nº 3 au Document Nº DT/2-F/E/S 22 septembre 1967

SEANCE PLENIERE PLENARY MEETING SESION PLENARIA

Liste complémentaire des références à de nouvelles propositions qu'il y a lieu d'introduire dans le Bocument N° DT/2.

Additional list of references to new proposals for inclusion in Document No. DT/2.

Lista complementaria de las referencias a nuevas proposiciones que deben incluirse en el Documento N.º DT/2.



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Page du DT/2 Page of DT/2 ágina del1DT/2	Réf. des propositions à insérer Serial No. to be added N.° de ref. que debe agregarse	N° du Doc. dans lequel la proposition a été publiée Doc. No. in which the proposal has been published N.° del Doc. en el que la proposición ha sido publicada	Page Página
1.	2	3	4
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3	GRC/160 (1) MOD 36	160	2
13	GRC/160 (5) SUP 171-172	160	6
69	GRC/160 (1) MOD 449	160	2
141	HOL/167 (35) MOD 863 HOL/167 (36) ADD 863A	167 167	
227	GRC/160(5) SUP 1095-1105	160	6
546	GRC/160(2) App. 15	160	3-4 et 7
593 "	GRC/160(2) App. 17 GRC/160(4) "	160 "	3-4 et 9 5
670	GRC/160(3) App. 25	11	4
759	J/158(92) Point 3	158	3

UNION INTERNACIONAL DE TELECOMUNICACIONES CONFERENCIA MARÍTIMA

GINEBRA, 1967

Addéndum N.º 2 al Documento N.º DT/2-S 21 de septiembre de 1967

SESIÓN PLENARIA

1.	En el Documento N.º DT/2 e inmediatamente después de la página 170, insértense las páginas 170A/170B y 170C adjuntas.
2.	Sólo concierne al texto francés.
3.	Página 311. Sólo concierne al texto francés.
4.	Trasládense las proposiciones F/111(154) y G/65(78) de la página 313 a la página 317.



Proposiciones relativas al Artículo 27

Estaciones de aeronave y estaciones aeronauticas

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CAPÍTULO VII

Condiciones de funcionamiento de los servicios móviles

ARTÍCULO 27

Estaciones de aeronave y estaciones aeronáuticas

- **949** § 1. Excepto en los casos en que este Reglamento disponga lo contrario, el servicio móvil aeronáutico podrá regirse por acuerdos especiales concertados por los gobiernos interesados (véase el artículo 43 del Convenio).
- 950 § 2. Cuando no existan acuerdos especiales relativos al curso y a la contabilidad de la correspondencia pública en las estaciones del servicio móvil aeronáutico, se aplicarán las disposiciones correspondientes del presente Reglamento.
- 951 § 3. (1) Las estaciones de aeronave podrán comunicar con las estaciones del servicio móvil marítimo, ajustándose para ello a las disposiciones del presente Reglamento relativas al servicio móvil marítimo.
- 952 (2) Con este fin, conviene que las estaciones de aeronave utilicen las frecuencias atribuidas al servicio móvil marítimo. Sin embargo, teniendo en cuenta las interferencias que pueden causar las estaciones de aeronave al volar a gran altura, no utilizarán las frecuencias de las bandas de dicho servicio superiores a 30 Mc/s, en una zona determinada, sin previo acuerdo de todas las administraciones afectadas por la posibilidad de que se cause interferencia. En particular, las estaciones de aeronave que funcionen en la Región 1 no utilizarán frecuencias de las bandas superiores a 30 Mc/s atribuidas al servicio móvil marítimo en virtud de acuerdos entre las administraciones de esa Región.
- 953 (3) No obstante, las estaciones de aeronave podrán utilizar las frecuencias de 156,30 Mc/s y 156,80 Mc/s, pero, únicamente, para fines de seguridad.
- 954 (4) Cuando las estaciones de aeronave transmitan o reciban correspondencia publica por conducto de estaciones del servicio móvil marítimo, se ajustarán a todas las disposiciones aplicables a la transmisión de dicha correspondencia en el servicio móvil marítimo (véanse, en particular, los artículos 37 a 40).

<u>Ref</u>.

NZL/131(29) MOD 953

Artículo 27

3) No obstante, las estaciones de aeronave podrán utilizar las frecuencias 156,30 Me/s y 156,80 Mc/s --pere--únicamente, para fines de socorro, urgencia y seguridad. Podrán utilizar también la frecuencia 156,30 Mc/s, pero únicamente para fines de seguridad.

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INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Addendum No. 1 to Document No. DT/2-E 20 September 1967 Original : French

PLENARY MEETING

NOTE BY GENERAL SECRETARIAT

Page III of Document No. DI/2 states that extra pages would be provided to introduce all proposals appearing in documents issued after Document No. 118.

The preparation of these supplementary pages would, however, tend to delay the issue of documents. For this reason new proposals are simply referred to in the attached list by means of references to the documents in which they appear and also to the appropriate page of Document No. DT/2.



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1	2		. 3	4
3 " " "	B/137(11) MOD B/139(58) B/142(109) MOD B/142(110)	ADD 37A 41 ADD 41.1	137 139 142 142	4 1 5 5
4	NZL/135(2)	ADD 68A	135	1
5	B/137(12)	ADD 84A	137	4
	B/137(13)	ADD 84B	137	4
17	B/143(124)	SUP 200	143	1
"	CAN/145(40) MOD	200	145	1
	AUT/120(1) MOD	287	120	1
	B/142(122) MOD	287	142	11
54	USA/125(82) MOD	445	125	3
11. 11 11 11 11 11 11 11 11 11 11 11 11	AUS/122(12) MOD AUS/122(13) MOD "(14) "(15) "(16) "(17) MOD "(18) MOD "(19) MOD "(20) MOD "(21) MOD "(22) MOD B/137(14) B/137(20) MOD	447 448 ADD 448A SUP 449 SUP 450 451 452 452.1 453 453.1 454 ADD 450A 453	122 122 " " " " " " " " " " " " " " " "	11 11-14 " " " " " " " " " " " " " " " " "
61	CAN/145(41) MOD	455	145	2
"	ISR/130(4) MOD	454	130	3
77	NZL/134(17)	SUP 457	134	2
"	NZL/131(25)	ADD 457A	131	1
	B/138(32) MOD	500	138	10
	NZL/134(18) MOD	500	134	2
	B/138(33) MOD	540	138	10
	NZL/134(19) MOD	540	134	2

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1	2					3	 4
95	B/138(34)		SUP 54	1 - 551		138	10
96	NZL/134(20)		SUP 54	1-551		134	 . 3
99 "	AUS/122(23) MO B/138(35) MO			573 573		1 22 138	15 10–11
100	NZL/134(21) MO	D		573		134	3
105 "	B/138(36) NZL/134(22)		S UP 57 SUP 57			138 134	11 4
109 "	B/138(37) MO NZL/134(23) MO			635 635		138 134	11 4
113	B/138(38) MO	D		677		138	11
117	NZL/135(3) MO	D		736	,	135	1
121	B/1 41(79)		SUP	760		141	l
151 "	B/143(126) B/143(127)	ADD ADD		874a 883a		143 1 43	2
170	NZL/135(1)	ADD		937A		135	5
173	B/138(39)		SUP	956		138	11
177	B/140(65), МО (66),(67)	D		4,975 976		140	1
178	USA/20(33)Rev. MO	D		974		125	2
179	ISR/130(6) MO	D		980		130	3
183	В/140(68), МО (69),(70) МО		98	4(p.1) 5,986		140	1-2
11	B/140(71)	ADD	(p.2) 986A		140	2
186	USA/16(12)Rev. MO	D		984		125	 3
19 1	B/140(72) MO	D		992 '		140	- 2
195 "	B/140(73) MO B/140(74) MO			995 996		140 140	2. . 3

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l		2		3	4
198	B/142(111)	ADD	999A	142	5
Ĩt	B/142(112)	ADD	999B	142	6
87	B/142(113)	ADD	999¢	142	6
200	G/60(21)	ADD	999A	60	8
202	NZL/131(26)	ADD	998A	131	2
11	NZL/135(4)	ADD	· 999A,	135	2
			999B,		м.,
			999°		
211	B/141(80)	MOD	1005	141	1
11	RFA/6(12)	MCD	1005	6	18
216	ISR/130(7)	MOD	1013	130	4
81	ISR/130(8)	ADD	1013A	130	4
11	ISR/130(9)	MOD	1015	130	5
224	ISR/130(10)	ADD	1077A	130	5
233	B/140(75)	ADD	1106A	140	3
11	B/140(76)	St	JP 1113	140	3
238	B/140(77)	MOD	1134	140	3
240	B/140(78)	MOD	1137	140	4
249	AUS/122(24)	MOD	1149	122	16
11	AUS/122(25)	ADD	1150A	122	16
11	B/142(98)	MOD	1145	142	1
tt	B/138(40)	MOD	1146	138	12
11	B/142(99)	MOD	1149 1149A	142 142	1 1
ft	B/142(100) B/142(101)	ADD	- 1	142	
**	B/142(101) B/142(102)	MOD MOD	1150 1151	142 142	. 2
tt	B/142(102) B/142(103)	ADD	1151A	142	1
†1	B/142(104)	MCD	1152	142	2
tt	B/142(105)	MOD	1153	142	2
11	B/137(9)	MCD	1156	1 <i>3</i> 7	3
11	B/137(10) B/138(41)	St	IP 1157	137	2 2 2 3 3 12
17	B/138(41)	MOD	1158	138	12
257	ISR/130(11)	MOD	1168	130	5
261	AUS/122(26)	MOD	1173	122	16
**	AUS/122(27)	MOD	1174	122	17
17 17	AUS/122(28)	MOD	1175	122	17
11	AUS/122(29)		IP 1176	122	17
r u	AUS/122(30)	MOD	1177	122	17
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1 、		2					 3		4
262	B/138(42)	MOD			1175		 138		12
tt .	ISR/130(12)	AD	D		1174A		130		6
11	ISR/130(13)	AD			1177A		130		6
267	AUS/122(31)	AD	D		1180A	Ļ.	122		18
11	AUS/122(32)		SUP		1181-i	187	122		18
11	AUS/122(33)	MOD	-		1188	÷	122		18
EF	4	MOD			1192		122		19
11	AUS/122(35)				1196		122		19
tt -	AUS/122(36)	1010	SUP		1197-1	199	122		19
11	AUS/122(37)	MΩ	001		1200	- / /	122		20
11	AUS/122(38)		SUP		1201		122		20
tt .	AUS/122(39)	AL			1201A		122		20
Ħ		AL			1201A		122		21
tt	AUS/122(40)				1180		138		12
łt		MOD					138		12
11		MOD			1181		138		12
11 11		MOD			1182		128		12
11 11		MOD			1184		138		13
		MOD			1187		138		
17 · · ·		MOD			1189		138		13
17 		MOD			1191	- -	138		13 2-3
		MOD	_		1192	-	142		2-3
ft •P	B/142(107)	AL	D .		1192A		142		3
17		MOD			1193	•	138		13
i It	B/138(51)	MOD			1197		138		13
275	AUS/122(41)		SUP		1205-1	206	122		21
17	B/137(15)	AL			1206A		137		5
tt.	B/137(16)	AI			1206B		137		5
tt	B/137(17)	AI	D		1206C		137		5 5 5 6
TŤ	ISR/130(14)	MOD			1192		130		
tt .	USA/123(67)	•		NOC	1180		123		5
31	USA/123(68)	MOD			1181	•	123		5.
tt	USA/123(69)				1182		123		5 6
11	USA/123(70)	MOD			1183		123		
11	USA/123(71)				1184	×	123		6
11	USA/123(72)	MOD			1185		123		6
11	USA/123(73)			NOC	1186		123		6
19	USA/123(74)			NOC	1187		123		6
283	B/141(81)	AI	D		1216A	· ·	141		2
tt .	B/141(82)	AI			1216B		141		2
**	RFA/6(13)	AI	DD		1216A		6		18-19
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1	2	3	4
289 "		222 141 222 6	2 19
292 "	B/138(52) MOD 1	236 122 236 138 236 133	22 13 3
295 "		241 141 241 6	3 19
300 "	AUS/122(44) MOD 1	249 122 251 122 249 138	22 22 14
305	NZL/131(27) MOD 1	256 131	2
311 " " "	B/141(86) MOD 1 B/141(87) MOD 1 RFA/6(14) MOD 1	273 141 287 141 289 141 273 6 287 6	3 3 4 19 19
321 "		302 141 302 133 303 133	4 · 3 4
329	B/136(1) ADD 1	322A 136	1 - 2
333	RFA/4(2) <u>NOC</u> 1	324 4	1
338	USA/16(2) <u>NOC</u> 1	336 16	2
349	USA/16(6Rev.), ADD 1	339 BU 125	1
357	USA/16(6) <u>NOC</u> 1	340-1349 16	9
363 "" "" " " " " " "	AUS/122(47) SUP 1 AUS/122(48) SUP 1 B/136(2) ADD 1 B/138(54) MOD 1	353 122 354 122 356-1357 122 351 A 136 352 A 138 354 138 138	23 23 23 23 2 14 1 14 1

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1		137	1357	MOD	B/137(7)	11 11
14		138 137	1357 1358	MOD MOD	B/138(57) B/137(8)	17
4		133	1352-1354		NZL/133(15)	368
4		133	1356	MOD	NZL/133(15)	11
3		125	1351	MOD	USA/16(8Rev.)	369
1		131	Section IV Sección IV	MOD	NZL/131(28)	370
1 2 3 3 3 3		131	1359	MOD	NZL/131(28)	11
3		131 131	1359 & 1359₿	ADD ADD	NZL/131(28) NZL/131(28)	71
3		131	pel et réponse		NZL/131(28)	11
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3 3 3 3 4		131 131	1360 1361	MOD MOD	NZL/131(28) NZL/131(28)	1 3 3
3		131	1361A	ADD	NZL/131(28)	81
3		131	1362		NZL/131(28)	11
4		131 131	1363 Veille	MOD C	NZL/131(28) NZL/131(28)	_12 11
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4		131	Escucha Trafic	MOD D	NZL/131(28)	11
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		105	Trafico	NGOD	USA/16(11Rev.)	777
2		125	1358-BS			373
1 1		139 139	1363A 1363B	DDA DD	B/139(59) B/139(60)	380
4		141	1386	MOD	B/141(89)	387
4		141	1393	MOD ADD	B/141(90) NZL/135(5)	92 27
20		135 6	1388 A 1386	MOD	RFA/6(15)	83
19		6	1393	MOD	RFA/6(14)	11
5		141	1430	MOD	B/141(91)	3 97
19		6	1430	MOD	RFA/6(14)	398
5	~	141	1451	MOD	B/141(92)	399
19 5		6	1451	MOD	RFA/6(14)	400
5 19		141	1460 1460	MOD MOD	B/141(93) RFA/6(14)	31 31

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1	2			3	4
405	B/142(114)à(119)	ADD	1476 A- 1476 F	142	67
410	NZL/135(5)	ADD	1476 A- 1476 E	135	3
435 " "	B/1.36(4) B/139(61) B/142(108)	MOD MOD MOD	App 3 App 3 App 3	136 139 142	3 3 3–4
441	rfa/94(28)	ABB	b'	94	5
453 " "	B/137(18) B/137(19) B/142(120)	ADD ADD ADD	OD OE	1 <i>3</i> 7 1 <i>3</i> 7 142	6 6 8
463	ISF/129(2)		App 12	129	1
533 "	AUS/122(10) B/138(21) B/138(22)		App 15 App 15 App 15 App 15	122 138 138	1–5 1–3 1–3
554 11	ISR/130(3) ISR/130(5) ISR/130(15)		App 15 App 15 App 15	130 130 130	1 3 7
555 "' "	NZL/132(6) NZL/132(7) NZL/133(8)-(12) NZL/132(24)		App 15 App 15 App 15 6 MHz	132 132 133 132	2 2 1-3 1
557 11	USA/17(15) USA/18(26 Rev.)		App 15 App 15	17 123	3 3
563	B/141(94)	MOD	Арр 16	141	6–8
581 "	AUS/122(11) B/138(23)(26)		App 17 App 17	122 1 <i>3</i> 8	1-9 5-8
619	NZL/133(8)(12)		App 17	133	1-15
627	B/136(3)	ADD	App-17A	136	2-3
635 "	AUT/120(2) B/139(62) B/142(123)	MOD _ MOD MCM	App 18 App 18 App 18	120 139 142	2 3-4 11

Addendum 1 au Document N° DT/2-F/E/S Page - Página 9

			·
1	2	3	4
647 ''	B/139(63) App 19 G/Add 112(100) ADD App 19A	139 Add Doc. 112	4 1-2
66 5	B/138(27) SUP App 25	138	8
673	NZL/134(16) SUP App 25	134	l
675	USA/124(75) (81) SUP App 25	124	1-5
705 "	B/141(95) SUP Rec.22 RFA/6(11) SUP Rec.22	141 6	8 10
715	B/141(96) SUP Rec.30	141	- 8
7 19	B/136(5)	136	. 5
763	B/139(64) ↔	139	5
779	B/141(97)	141	9
792	F/128(188)	128	2
799	B/142(121)	142	10
803	AUT/120(3) Point 7.6/Item 7.6	120	2
11	Punto 7.6 USA/126(83) Utilisation de tech- niques de télécom.	126	1-2
	spatiales/ Utilization of Space Com. Techniques/ Utilización de técnicas de telecom. espaciales		
			-

MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/2-E 18 August 1967 Original : French, English, Spanish

PLENARY MEETING

Note by the General Secretariat

- In this working document, the various proposals submitted by Administrations and issued as Documents Nos. 1 - 118 have been rearranged in the order of the provisions of the Radio Regulations, and the Additional Radio Regulations.
- 2. The green pages contain the present provisions of the Regulations to which amendments have been proposed.
- 3. The proposed amendments to these provisions of the Regulations are reproduced on the white pages in alphabetical order of the symbols of the countries concerned (see attached list).
- 4. The reference symbols are the same as those appearing on the original documents. They include :
 - a) the symbol of the country or countries which submitted the proposal, followed by a stroke (/)
 - b) the number of the original document containing the proposal,
 - c) a serial number (in brackets) relating to the proposals submitted by each Administration.
- 5. The same reference symbol generally covers the whole series of proposals appearing on the same page. In cases of this sort, the reference is given only once opposite the first proposal in the series.
- 6. To enable proposals to be classified according to their assignement to the various Committees, or in any other way that delegates may see fit, four files are being distributed with the documents.

Document No. DT/2-E Page II

LIST OF THE COUNTRY SYMBOLS

- AUS Australia (Commonwealth of)
- AUT Austria
- B Brazil
- CAN Canada
- DNK Denmark
- F France

G

United Kingdom of Great Britain and Northern Ireland, the Channel Islands and the Isle of Man

- HOL Netherlands (Kingdom of the)
- I Italy
- IND India (Republic of)
- ISL Iceland
- ISR Israel (State of)
- J Japan
- MDG Malagasy Republic
- NOR Norway
- NZL New Zealand
- POL Poland (People's Republic of)
- RFA Federal Republic of Germany
- S Sweden
- SUI Switzerland (Confederation of)
- URSS Union of Soviet Socialist Republics
- USA United States of America

Document No DT/2-E page III

<u>Note</u>

Additional pages containing proposals sumitted by the under-mentioned countries will be supplied separately for insertion in this Working Document.

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Austria	(Document No. 120)
Australia	(Document No. 122)
Brazil	(Documents Nos. 136 to 143)
United States	(Documents Nos. 123 to 126)
France	(Document No. 128)
Israel	(Documents Nos. 129 and 130)
New Zealand	(Documents Nos. 131 to 135)

Proposals relating to

Article 1

Terms and Definitions



ARTICLE 1

Terms and Definitions

- 36 Maritime Mobile Service: A mobile service between coast stations and ship stations, or between ship stations, in which survival craft stations may also participate.
- 37 Port Operations Service: A maritime mobile service in or near a port, between coast stations and ship stations, or between ship stations, in which messakes are restricted to those relating to the movement and the safety of ships and, in emergency, to the safety of persons.
- 41 Survival Craft Station: A mobile station in the maritime or aeronautical mobile service intended solely for survival purposes and located on any lifeboat, life-raft or other survival equipment.

Re	f	•.

		•	
USA/17(17)	MOD	36	Maritime Mobile Service : A mobile service between coast stations and ship stations, or between ship stations, in which survival craft stations may also participate, <u>and exceptionally</u> between ocean data and ocean data telecommand <u>stations</u> .
AUS/54(1)	MOD	37.	Port Operations Service : A maritime mobile service in or near a port, between eeest <u>port</u> stations and ship stations, or between ship stations, in which messages are restricted to those relating to the movement and the safety of ships and, in emergency, to the safety of persons.
AUS/54(2)	ADD Reasons	<u>37A.</u>	Port Station : <u>A Coast Station in the Port</u> <u>Operations Service</u>
USA/55(45)	retain t List of	Station the symbol Coast Stator ort operation 37A Na in <u>magnetic</u>	x 10 shows the service document symbol FP mean- which is not defined. There is a need to FP in service documents particularly in the tions to enable the coast stations providing tions service to be readily identified. avigation Communications. Safety communications in the maritime mobile service pertaining to the anoeuvring of vessels or the directing of vessel ovements. Such communications are primarily for the exchange of information between ship stations and secondarily between ship stations and coast tations.
USA/22(50)	MOD 4	or aero	al Craft Station: A mobile station in the maritime mautical mobile service intended solely for

or aeronautical mobile service intended solely for survival purposes and located on any lifeboat, life-raft or other survival equipment.¹⁾

ADD <u>41.1</u> ¹⁾ Survival craft stations include devices which are intended to facilitate search and rescue through the functions of alerting, position-indicating beaconry, or communications, the emissions of which are nondirectional. Such devices may be small, lightweight, floatable, watertight, shock resistant, self energizing and capable of continuous operations over extended periods.

Ref.			
J/89(72)	MOD	41	Survival craft station : A mobile station in the maritime or aeronautical mobile service
			intended solely for survival purposes and located on any lifeboat, life-raft or other survival equipment ¹ .
J/89(73)	ADD	<u>41.1</u>	¹ <u>Survival craft stations include the</u> emergency position-indicating radio beacons which are intended to indicate the positions of survivors or the location of a mobile station in distress.
RFA/94(20)	ADD	41 A	Floatable emergency position-indicating radio beacon. A mobile station in the maritime mobile service intended to facilitate search and rescue through the functions of quasi- alerting and of enabling homing, working auto- matically when afloat.
	- base	ed upon Rec	ommendation 439 C.C.I.R. Oslo 1966

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- 4 -

G/60(18)	ADD		Emergency position-indicating radio beacon station : A station in the mobile service the emissions of which are intended to facilitate search and rescue operations.			
	Reasons :					
	emerg		definition required following the introduction of ition-indicating radio beacons.			
CAN/40(3)	ADD	76 A	Ocean data service : A radiocommunication service intended for the exchange of data between ocean data stations.			
	ADD	76B	Ocean data station: A station in the ocean data service.			
	Reasons :					

Consequential to the establishment of this new service.

<u>Ref</u> .			
USA/17(18)	DD	<u>84A</u>	Ocean Data Telecommand Station : A station in the maritime mobile service intended to tele- command ocean data stations.
USA/17(19)	ADD	<u>84B</u>	Ocean Data Station : A station in the maritime mobile service intended for the transmission of data collected at the site of the station.

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Proposals relating to Article 5

Frequency Allocations 10 kc/s to 40 Gc/s

Nos. 158 and 167

Limited to coast telegraph stations (A1 and F1 only).

Only classes A1 or F1, A4 or F4 emissions are authorized in the band 90-160 kc/s for stations of the fixed and maritime mobile services.

158

167

Ref.

CAN/46(24) MOD 158 Limited to coast telegraph stations (Al, A7J and Fl only).

CAN/46(25)

167

MOD

Only classes Al, $\underline{A7J}$ or Fl, A4 or F4 emissions are authorized in the band 90 - 160 kc/s for stations of the fixed and maritime mobile services.

Reasons :

Frequencies in the bands where these footnotes apply are used by stations in Canada for A7J emission. It is considered the multichannel systems using A7J make efficient use of the spectrum and there is no technical reason why this class of emission should be prohibited.

USA/25MOD158Limited to coast telegraph stations (Al, A7J, and
Fl only).USA/25MOD167Only classes Al or Fl, A4 or F4 emissions are authorized
in the band 90 - 160 kc/s for stations of the fixed and

maritime mobile services. Exceptionally, A7J emission is also authorized in the band 90 - 160 kc/s for stations of the maritime mobile service.

Reasons :

To provide for use of A7J emission for stations of the maritime mobile service in maritime mobile bands between 14 and 160 kc/s.

Background :

A requirement has developed to use single sideband, suppressed carrier, multichannel voice-frequency telegraph emission (A7J) in the maritime mobile service between 14 and 160 kc/s.

Number 158 concerning 14 - 110 kc/s, and number 167, concerning 90 - 160 kc/s, do not presently provide for use of A7J emission in the maritime mobile service.

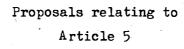
The Radio Regulations have been amended in the past to recognize use of additional emissions in the maritime mobile service below 160 kc/s. Number 158, Geneva, 1959, recognized Fl emission not previously provided for in number 233, Atlantic City, 1947.

It is proposed that this Conference, following past procedents, provide for use of the telegraph emission A7J in the maritime mobile service between 14 and 160 kc/s, by making necessary revisions to numbers 158 and 167.

- 9 -

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Nos. 171, 172 and 196

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171 The frequency 143 kc/s is the calling frequency for stations in the maritime mobile service using the band 90-160 kc/s. The conditions for its use are prescribed in Article 32.

172 Limited to ship stations.

196

In Japan, the band 1 605-1 800 kc/s is allocated on a permitted basis to the maritime radionavigation service using continuous wave systems with a mean power of not more than 50 watts.

Ref.

USA/26 SUP 171

Reasons :

Use of 143 kc/s by ships for calling is no longer sufficient to justify its retention.

G/61 SUP 171-172

Reasons :

In view of the declining use of the band 90 to 160 kc/s by ships, it is no longer considered necessary to retain 143 kc/s as a calling frequency for stations in the maritime mobile service using this band, nor to give preference to ships in the band 130-150 kc/s.

J/90

196

In Japan, the band 1605 - 1800 kc/s is <u>also</u> allocated on a permitted basis to the maritime radionavigation service using continuous wave systems with a mean power of not more than 50 watts.

Reasons :

MOD

At the Ordinary Administrative Radio Conference, Geneva, 1959, Japan made a proposal that the frequency band 1605 - 1800 kc/s should be usable also for the maritime radionavigation service pursuant to the footnote in addition to the fixed service and mobile service. Further, as a result of the deliberation at the Conference, our proposal for the addition of this footnote submitted with the intent of the additional allocation to the services contained in the List on the condition (that it shall be a permissible service with power limitation), namely, with such words which should have been expressed as "is also allocated", was agreed at the Conference. Nevertheless, in the footnote of the Final Acts, it was laid down as follows without the word "also"; "In Japan, the band 1605 - 1800 kc/s is allocated on a permitted basis to the maritime radionavigation service using continuous wave system with a mean power of not more than 50 watts".

In consequence, it has come to be usable only for the maritime radionavigation service in lieu of the fixed service and mobile service.

As the result, it has caused unexpected serious consequences that all of the frequency assignments to the stations for fixed service and mobile service, which are essential to Japan in this band, have been obliged to treat as out-of-band assignments.

Therefore, with a view to rectifying the above-mentioned expression contained in the provisions, the amendment to No. 196 is proposed.

Proposals relating to Article 5

N° 197 and 199

197 In Australia, North Borneo, Brunei, Sarawak, Singapore, China, Indonesia, Malaya, New Zealand and the Philippines, the band 1 605-1 800 kc/s is allocated on a permitted basis to the aeronautical radionavigation service, the stations of which shall use a mean power not exceeding 2 kW.

199

In India, the band 1 800-2 000 kc/s is allocated on a permitted basis to the aeronautical mobile service.

In Australia, North Borneo, Brunei, Sarawak, Singapore, China, Indonesia, Malaya, New Zealand and the Philippines, the band 1605 -1800 kc/s is <u>also</u> allocated on a permitted basis to the aeronautical radionavigation service, the stations of which shall use a mean power not exceeding 2 kW.

In India, the band 1800-2000 kc/s is also allocated on a permitted basis to the

Reasons :

MOD

197.

199

In Australia, it has been necessary to utilise the 1605 - 1800 kc/s band for the aeronautical radionavigation service in addition to the Fixed and Mobile Services. This sharing arrangement is still required.

 $\mathbb{ND}/99(4)$

Reasons :

MOD

In India this band is to be allocated to other services including Maritime Mobile Service.

aeronautical mobile service.

Proposals relating to Article 5

Table of Frequency Allocations

Band 2000 to 2194 kc/s

and No. 201

ART 5

kc/s

2 000 - 2 194

Allocation to Services						
Region 1	Region 2		Region 3			
2 000 2 045 FDED MOBILE except aeronautical mobile 193 2 045 2 065 METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile	2 000 — 2 065	Fixed Mobile				
193 2 065 - 2 170 FIXED MOBILE except aeronautical mobile (R)	2 065 — 2 107 2 107 — 2 170	MARITIM 200 Fixed	E MOBILE			
	MOBILE (distress and	MOBILE				

200

In Region 2, limited to ship stations using radiotelegraphy. The frequency 2182 kc/s is the international distress and calling frequency for radiotelephony. The conditions for the use of this frequency are prescribed in Article 35. 201

<u>Réf.</u>

MOD

Amend Article 5, Section IV. Table of

Frequency Allocations as follows :

kc/s

Proposals

2000 - 2194

		Allocation to se	rvice	S '		
Region 1		Region 2		Regio	n 3	-
2000 - 2045 (NCC)		2000 - 2065 (NOC)				
2045 - 2065 (NCC)			-			
2065 - 2170 (NOC)		2065 - 21 7 7 (NOC)				
		2107 - 2170 (NOC)				
2170 - <u>2173.5</u>	Ma	ritime mobile				
<u>2173.5 - 2190.5</u> Mobile (distress and calling) 201						
<u>2190.5</u> – 2194	Ma	ritime mobile				

Reasons :

With many years' development of technical characteristic of radio equipment and wide use of SSB communication system, the guard band of 2182 kc/s should be reduced from 24 kc/s to 17 kc/s for effective use of frequencies. In connection with this proposal, it will be necessary to amend Nos. 442 to 444 and 1341 to 1345.

USA/16(13)

201

The frequency 2182 kc/s is the international distress and calling frequency for radiotelephony. The conditions for the use of this-frequency the band 2170-2194 kc/s are prescribed in Article 35.

Reasons :

MOD

Consequential to the proposed amendment of Article 35 (USA/16(1) - (11)).

J/84(1)

Proposals relating to Article 5

Table of Frequency Allocations

Band 3155 to 3200 kc/s

ART 5

kc/s

2 850 - 3 500

	Alloc	ation to Servic	es	,
Region 1		Region 2		Region 3
2 850 3 025				. •
	AERONAUTICAL	MOBILE (R)		
3 025 — 3 155				
	AERONAUTICAL	MOBILE (OR)		
3 155 — 3 200				
	Fixed		·	
	MOBILE except	t aeronautical n	nobile (R)	
3 200 - 3 230		, <u>1887 , U</u>		
	FIXED			
	MOBILE except	aeronautical n	nobile (R)	
	BROADCASTING	202		
3 230 - 3 400				3
	FIXED			
	MOBILE except	t aeronautical n	nobile	
	BROADCASTING	202		
3 400 3 500	Aeronauticai	. MOBILE (R)		

Ref.

USSR/49(3) <u>Item 2.2</u>:

It is recommended that the possibility be considered of improving the safety service by allocating for radiotelephone traffic between ships engaged in search and rescue operations an additional frequency in the 3155 - 3200 kc/s band, for example 3158 ± 3 kc/s, used exclusively by the Maritime Mobile Service; this would be at the expense of the mobile and fixed stations. It is also recommended that the right to use frequency 6204 kc/s for this service (see No. 1353 of the Radio Regulations) be extended to all regions of the world.

Comments

Since the sea-going fleet has been greatly improved in the last 10 - 15 years by more up-to-date ships capable of high speeds, it really has become possible for ships in distress to be effectively helped by other ships situated a long way from the area concerned (1000 - 1500 km). The Radio Regulations do not provide, on a world-wide basis, special frequencies in the 3 and 6 Mc/s bands for intership radiotelephone traffic in emergencies. The Soviet Administration therefore proposes that the possibility be considered of allocating a frequency in the 3155 - 3200 kc/s range on a world-wide basis and that the right to use frequency 6204 kc/s for this service be extended to all regions of the world.

Proposals relating to

article 5

Table of Frequency Allocations

Band 4063 to 4438 kc/s

and N° 209

ART 5

	4 000 - 4 850	
	Allocation to Services	· · · · · · · · · · · · · · · · · · ·
Region 1	Region 2	Region 3
4 000 4 063	Fixed	
4 063 - 4 438	MARITIME MOBILE	
	208 209	· .
4 438 — 4 650		4 438 — 4 650
Fixed	· · · · · ·	FIXED
MOBILE excep	t aeronautical mobile (R)	MOBILE except aeronautical mobile
4 650 - 4 700	AERONAUTICAL MOBILE (R)	
4 700 - 4 750	AERONAUTICAL MOBILE (OR)	
4 750 4 850	4 750 4 850	
Fixed Aeronautical mobile (or) Land mobile Broadcasting 202	Fixed Broadd	casting 202

In the U.S.S.R., in the bands 4 063-4 133 kc/s and 4 408-4 438 kc/s, fixed stations of limited power may operate provided that, in order to minimize the possibility of causing harmful interference to the maritime mobile service, they are situated at least 600 km from the coast. A limited power station is one whose power and antenna characteristics are so adjusted that the field strength established at any point in any direction does not exceed that obtainable with a non-directive antenna and a peak envelope power of 1 kW. 208

On condition that harmful interference is not caused to the maritime mobile service, the frequencies between 4 063 and 4 438 kc/s may be used exceptionally by fixed stations communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 watts; however, in Regions 2 and 3, between 4 238 and 4 368 kc/s, a mean power not exceeding 500 watts may be used by explosible. be used by such fixed stations.

kc/s 4 000 4 850

209

CAN/40(4)

MOD

4063 - 4438 kc/s hand

4063 - <u>4136.5</u>	MARITIME MOBILE
	208 209
4136.5 - 4140	OCEAN DATA
	209
<u>4140</u> - 4438	MARITIME MOBILE
	208 209

~AN/40(10)

209 MOD

On condition that harmful interference is not caused to the maritime mobile service, <u>or the ocean</u> <u>data service</u>, the frequencies between 4063 and 4438 kc/s may be used exceptionally by fixed stations communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 watts; however, in Regions 2 and 3, between 4238 and 4368 kc/s, a mean power not exceeding 500 watts may be used by such fixed stations.

<u>Reasons</u> :

To provide for the exclusive allocation of frequencies to the ocean data service.

Proposals relating to

article 5

Table of Frequency Allocations

6200 to 6525 kc/s band

and N° 211

ART 5

kc/s 5 480 — 7 100

Allocation to Services						
Region 1	Region 2	Region 3				
5 480 - 5 680	Aeronautical mobile (1	R)				
5 680 — 5 730	Aeronautical mobile (DR)				
5 730 — 5 950	Fixed					
5 950 — 6 200	BROADCASTING					
6 200 — 6 525	Maritime mobile					
6 525 - 6 685	AERONAUTICAL MOBILE (1	R)				
6 685 — 6 765	Aeronautical mobile ((DR)				
6 765 — 7 000	Fixed					
7 000 7 100	Amateur					

211 On condition that harmful interference is not caused to the maritime mobile service, the frequencies between 6 200 and 6 525 kc/s may be used exceptionally by fixed stations, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 watts. At the time of notification of these frequencies, the attention of the International Frequency Registration Board will be drawn to the above conditions.

band	
MARITIME MOBILE	7
211	
OCEAN DATA	
<u>211</u>	.
MARITIME MOBILE	
211	
	MARITIME MOBILE 211 <u>OCEAN DATA</u> <u>211</u> MARITIME MOBILE

Réf.

CAN/40(5)MOD

CAN/40(11)MOD

On condition that harmful interference is not caused to the maritime mobile service, or the ocean data service, the frequencies between 6200 and 6525 kc/s may be used exceptionally by fixed stations, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 watts. At the time of notification of these frequencies, the attention of the International Frequency Registration Board will be drawn to the above conditions.

Reasons :

211

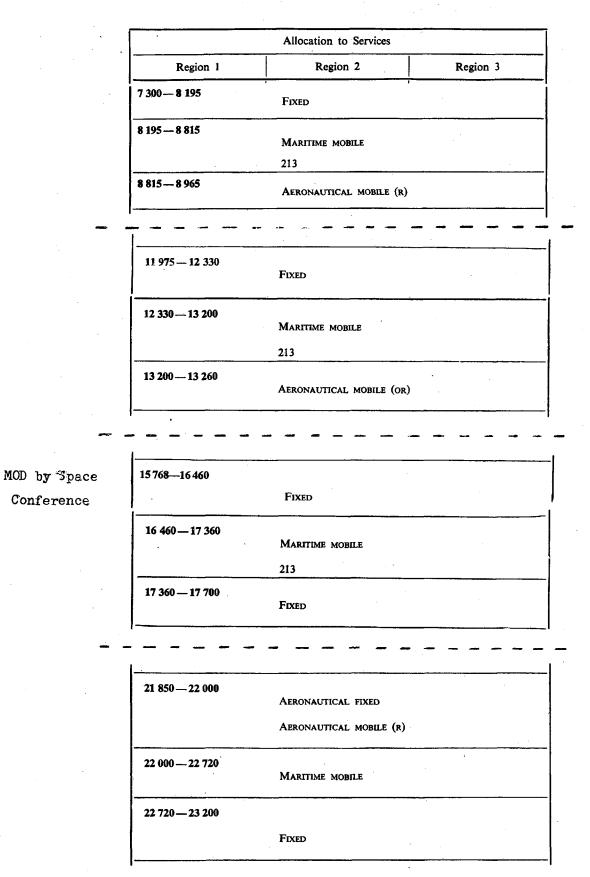
To provide for the exclusive allocation of frequencies to the ocean data service.

Proposals relating to

article 5

Table of Frequency Allocations :

Bands : 8195 - 8815 kc/s 12330 - 13200 " 16460 - 17360 " 22000 - 22720 " kc/s



- 36 -

Ref. CAN/40(6) MOD <u>8195 - 8815 kc/s band</u> 8195 - <u>8276.5</u> MARITIME MOBILE <u>8276.5 - 8280</u> <u>OCEAN DATA</u> <u>8280</u> - 8815 MARITIME MOBILE 213

CAN/40(7)

MOD

12 330 - 13 200 kc/s band

12 330 - <u>12 417.5</u>	MARITIME MOBILE
<u>12 417.5 - 12 421</u>	OCEAN DATA
12 421 - 13 200	MARITIME MOBILE
	213

CAN/40(8)

MOD

16 460 - 17 360 kc/s band

16 460 - <u>16 558.5</u>	MARITIME MOBILE
<u>16 558.5 - 16 562</u>	OCEAN DATA
<u>16 562</u> - 17 360	MARITIME MOBILE
	213

CAN/40(9)

MOD

22 000 - 22 720 kc/s band

22 000 - 22 096.5	MARITIME MOBILE
22 096.5 - 22 100	OCEAN DATA
<u>22 100</u> - 22 720	MARITIME MOBILE

Reasons :

To provide for the exclusive allocation of frequencies to the ocean data service.

Proposals relating to article 5 N° 287

The frequency 156-8 Mc/s is the international safety and calling frequency for the maritime mobile VHF radiotelephone service. Administrations shall ensure that a guard-band of 75 kc/s on each side of the frequency 156-8 Mc/s is provided. The conditions for the use of this frequency are contained in Article 35. In the bands 156-025-157-425 Mc/s, 160-625-160-975 Mc/s and 161-475-162-025 Mc/s, each administration shall give priority to the maritime mobile service on only such frequencies as are assigned to stations of the maritime mobile service by that administration (see Article 35).

by that administration (see Article 35).

Any use of frequencies in these bands by stations of other services to which they are allocated, should be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiotelephone service.

287

F/14(89) MOD

Add the following to the third paragraph of this number :

However, the frequency bands in which priority is given to the maritime mobile service may be used for shipping on inland waterways, subject to agreement between the administrations concerned and those whose services, having had the band assigned to them, are likely to be affected.

Reasons :

MOD

287

287

To permit the regular use of the frequencies appearing in Appendix 18 for shipping on inland waterways.

HOL/75(26)

The frequency 156.8 Mc/s is the international safety and calling frequency for the maritime mobile VHF radiotelephone service. Administrations shall ensure that a guardband of 75 kc/s on each side of the frequency 156.8 Mc/s is provided. The conditions for the use of this frequency are contained in Article 35.

In the bands 156.025-157.425 Mc/s, 160.625-160.975 Mc/s and 161.475-162.025 Mc/s, each administration shall give priority to the maritime mobile service on only such frequencies as are assigned to stations of the maritime mobile service by that administration (see Article 35).

Any use of frequencies in these bands by stations of other services to which they are allocated, should be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiotelephone service.

However, the frequency bands in which priority is given to the maritime mobile service, may be used for mobile radiotelephone communications on inland waterways, subject to agreement between administrations concerned and those having services operating in accordance with the Table, which may be affected.

Reasons :

To permit the use of the frequencies listed in Appendix 18 for mobile radiotelephone communications on inland

waterways.

Ref.

USA/55(50)

MOD 287

The frequency 156.80 Mc/s is the international Safety and calling frequency for the maritime mobile VHF radiotelephone service. Administrations shall ensure that a guard-band of 75 37.5 kc/s on each side of the frequency 156.80 Mc/s is provided. The conditions for the use of this frequency are contained in Article 35.

In the bands 156.025-157.425 Mc/s, 160.625-160.975 Mc/s and 161.475-162.025 Mc/s, each administration shall give priority to the maritime mobile service on only such frequencies as are assigned to stations of the maritime mobile service by that administration (see Article 35).

Any use of the frequencies in these bands by stations of other services to which they are allocated, should be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiotelephone service.

<u>Reasons</u> :

To provide for the reduction of the guard band on each side of 156.80 Mc/s.

Proposals relating to

article 7

Special Rules Relating to Particular Services

Section IV. Maritime Mobile Service

N°^S 438 - 442

Section IV. Maritime Mobile Service

- 438 § 8. (1) Except as provided in No. 418, ship stations authorized to work in the bands between 415 and 535 kc/s shall transmit on the frequencies indicated in Article 32 (see No. 1123).
- **439** § 9. In the band 405 415 kc/s in Region 1, no frequency is assigned to coast stations, in order to protect the frequency 410 kc/s which is designated for the maritime radionavigation service (radio direction-finding).
- 440 § 10. (1) In the African Area of Region 1, in the bands 415 490 kc/s and 510 525 kc/s, the separation between adjacent frequencies assigned to coast stations is, as a general rule, 3 kc/s. However, in order that the frequencies may coincide with those used in the European Area in these bands, this spacing is reduced in certain cases.
- 441 (2) The separation between adjacent frequencies used respectively by coast stations and by ship stations is 4 kc/s.
- 442 § 11. (1) In Region 1, frequencies assigned to stations of the maritime mobile service, operating in the bands between 1 605 and 3 800 kc/s (see Article 5) should, whenever possible, be in accordance with the following subdivision :

—	1	605	-10	625	kc/s :	Radiotelegraphy exclusively.
	1	625	-10	670	kc/s :	Low power radiotelephony.
_	1	670	-19	950	kc/s :	Coast stations.
	1	950	- 2	0 53	kc/s :	Ship stations working to coast stations.
<u> </u>	2	053	- 2	065	kc/s:	Intership working.
	2	065	- 2	170	kc/s :	Ship stations working to coast stations.
	2	170	- 2	194	kc/s :	Guard-band for the distress fre- quency 2 182 kc/s.
	2	194	- 2	440	kc/s:	Intership working.
	2	440	- 2	578	kc/s :	Ship stations working to coast stations.
	2	578	- 2	850	kc/s:	Coast stations.
	3	155	- 3	340	kc/s :	Ship stations working to coast stations.
.	3	340	- 3	400	kc/s:	Intership working.
	3	500	- 3	600	kc/s :	Intership working.
	3	600	- 3	800	kc/s :	Coast stations.

Réf.	

			Before 438 add the following new paragraphs :
CAN/40(12)	ADD 43	7 A	Para. 7(bis)(1). Administrations are urged to discontinue in the maritime mobile service, the use of double sideband radiotelegraph transmissions, if possible by 1 January 1973.
	ADD 43	7B	(2). Stations of the maritime mobile service employing single sideband radiotelegraph trans- missions shall use upper sideband emissions. Stations using single sideband radiotelegraph emissions on the designated frequencies 410, 425, 448, 454, 468, 480, 500, 512 and 8364 kc/s shall use carrier (reference) frequencies of the same value.
G/78	SUP Reasons :	438	
	Reasons .		
		Cove	red by No. 1123.
G /78	SUP	439	

Reasons :

Covered by No. 182.

F/8(1) No. 442 Replace :

- 2065 - 2170 kc/s by 2065 - 2173.5 kc/s

- 2170 - 2194 kc/s: Guard-band for the distress frequency 2182 kc/s by - 2173.5 - 2190.5 kc/s: Guard-band for the distress and calling frequency 2182 kc/s.

Add in the appropriate place :

- 2190.5 - 2194 kc/s: Selective calling of ship stations by coast stations

Reasons :

The improvement in the technical characteristics of the equipment may enable the guard-band of the frequency 21.82 kc/s to be reduced to 17 kc/s. The gaining of two traffic channels does not allow for world-wide distribution. It is proposed that one of these channels should be assigned to ship-coast traffic (adjacent band) and the other to selective calling. See also proposal relating to No. 1344 (F/8(38)).

<u>Réf</u>.

G/79 MOD 442 Replace : - 2170-2194 kc/s : Guard-band for the distress frequency 2182 kc/s. by - 2170-2173.5 kc/s : Selective calling of ship stations by coast stations. - 2173.5-2190.5 kc/s: Guard-band for the distress frequency 2182 kc/s. - 2190.5-2194 kc/s : Ship stations calling and working to coast stations (see Nos. 1339A and 1344B).

Reasons :

To take advantage of the improvement of transmitter and receiver design to reduce the guard-band for 2182 kc/s to $\pm 8.5 \text{ kc/s}$.

Proposals relating to

Article 7

 N^{oS} 443 and 444

- 47 -

ART 7

(2) In these bands, the frequencies assigned to the maritime mobile service are spaced, as far as possible by :

- 7 kc/s when two adjacent frequencies are used for radiotelephony;
- 3 kc/s when two adjacent frequencies are used for radiotelegraphy;
- --- 5 kc/s when one frequency is used for radiotelephony and the adjacent frequency is used for radiotelegraphy.

444

443

(3) However, in the case of intership bands, the spacing is reduced to 5 kc/s for adjacent frequencies used for radiotelephony.

<u>Réf</u>.

I/31(9) MOD 443

(2) In these bands, the frequencies assigned to the maritime mobile service are spaced, as far as possible, by :

- 7 kc/s when two adjacent frequencies are used for radiotelephony (class A3 emissions);
- 3 kc/s when two adjacent frequencies are used for radiotelegraphy;
- 5 kc/s when one frequency is used for radiotelephony (class A3 emissions) and the adjacent frequency is used for radiotelegraphy.

ADD 443 A

(2 bis) For spacing between assigned frequencies to the maritime mobile service for radiotelephony class A3H, A3A, A3J emissions, see Article 35, Nos. 1339-BW and 1339-BY (Proposal No. I/31(4)).

Reasons :

Such modifications are a consequence of the conversion to single sideband technique of maritime mobile stations operating in the band between 1605 and 4000 kc/s.

F/8(2) No. 443 Delete this number

Reasons :

As a result of SSB operation and the sub-division of the bands, the frequency separations become irregular and the recommendation in No. 443 is no longer of practical value. See draft Resolution No. 1A (F/8(52)) attached and Diagram No. I relating to the transfer of frequencies assigned to stations in the maritime mobile service in the 1605 - 3800 kc/s band.

F/8(3)

No. 444 Delete this number

Reasons :

See proposal relating to No. 443 (F/8(2)).

G/76(26)

443 and 444

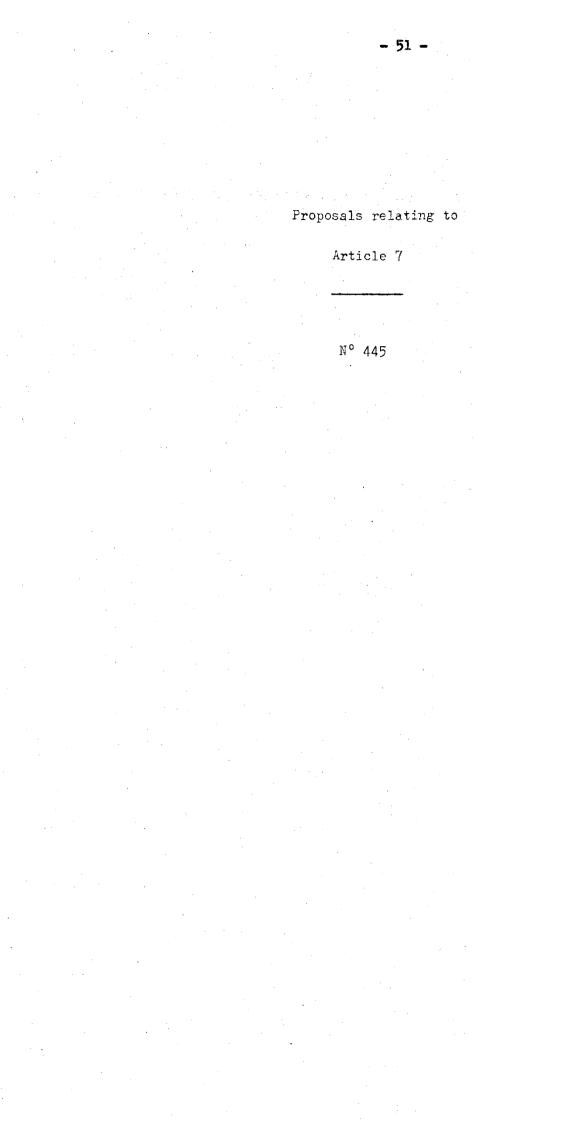
Reasons :

SUP

No longer applicable with the introduction of single sideband operation.

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(4) In Regions 2 and 3, the frequency 2 638 kc/s is used as an intership radiotelephony working frequency in addition to the specific frequencies prescribed for common use in certain services. In Region 3, this frequency is protected by a guard-band between 2 634 and 2 642 kc/s.

445

F/8(4) MOD 445

(4) In Regions 2 and 3, the frequencies 2636.35 kc/s (carrier frequency 2635 kc/s) and 2639.65 kc/s (carrier frequency 2638.3 kc/s) are used, in addition to the frequencies prescribed for common use in certain services, as sh'p-ship working frequencies by ship radiotelephone stations. In Region 3 these frequencies are protected by a guard-band between 2634 and 2642 kc/s.

Reasons :

See draft Resolution 1A (F/8(52)) relating to the transfer of frequencies assigned to maritime mobile service stations in the 1605 - 3800 kc/s band (Corrigendum to Doc. N° 8).

<u>Réf</u>.

<u>Réf</u>.

J/84(2)

MOD

445

(4) In regions 2 and 3, the frequency 2638 ke/s is frequencies 2636 and 2639.5 kc/s are used as intership radiotelephony working frequencies in addition to the specific frequencies prescribed for common use in certain services. In Region 3, these frequencies are protected by a guard-band between 2634 and 2642 kc/s.

Reasons :

To convert DSB system to SSB system. These frequencies are so much used between ships that the separation between frequencies was made 3.5 kc/s within the range of the guard-band in order to minimize interference between adjacent channels. As for the technical standards for frequency assignment, refer to Agenda Item 3 (amendment to Appendix 17, Document No. 86).

Proposals relating to

Article 7

N^{os} 447 - 455

§ 12. (1) The bands exclusively allocated to the maritime mobile 446 service between 4 000 and 27 500 kc/s (see Articles 5, 32 and 35) are subdivided into the following categories : 447

(a) Ship stations, telephony

4 063 -	4 1 3 3	kc/s
8 195 -	8 265	ķc/s
12 330 -	12 400	kc/s
16 460 -	16 530	kc/s
22 000 -	22 070	kc/s

448

449

(b) Coast stations, telephony

4 368 - 4 438 kc/s 8745 - 8815 kc/s 13 130 - 13 200 kc/s 17 290 - 17 360 kc/s 22 650 - 22 720 kc/s (c) Ship stations, telephony (single sideband only) 4133 - 4140 kc/s 6 200 - 6 211 kc/s 8 273 - 8 280 kc/s 12 407 - 12 421 kc/s 16 537 - 16 562 kc/s 22 078 - 22 100 kc/s

450

(d) Ship stations, telephony (double sideband calling channel)

8 265 - 8 273 kc/s 12 400 - 12 407 kc/s 16 530 - 16 537 kc/s 22 070 - 22 078 kc/s

451

(e) Ship stations, wideband telegraphy, facsimile, and special transmission systems

4 140 - 4 160	kc/s
6 211 - 6 240	kc/s
8 280 - 8 320	kc/s
12 421 - 12 471	kc/s
16 562 - 16 622	kc/s
22 100 - 22 148	kc/s

452

(f) Ship stations, telegraphy

4160 - 4238 kc/s 6240 - 6357 kc/s 8 320 - 8 476 kc/s 12 471 - 12 714 kc/s 16 622 - 16 952 kc/s 22 148 - 22 400 kc/s 25 070 - 25 110 kc/s¹

453

454

mcies in the bands $25\,010 - 25\,070$ kc/s, $25\,110 - 25\,600$ kc/s, and $26\,100 - ...$ is may be assigned to coast stations. They are then considered as freadditional to those in the band $22\,400 - 22\,650$ kc/s.

453.1 ¹ Freque 27500 1 9 guencie

(g) Coast stations, telegraphy and facsimile

4 238 -	4 368	kc/s
6 357 -	6 525	kc/s
8 476 -	8 745	kc/s
12 714 -	13 130	kc/s
16 952 -	17 290	kc/s
22 400 -	22 650	kc/s 1

(2) Within the bands listed in No. 452, the following bands are reserved exclusively for calling:

> 4177 - 4187 kc/s 6 265.5 - 6 280.5 kc/s 8 3 5 4 - 8 3 7 4 kc/s 12 531 - 12 561 kc/s 16 708 - 16 748 kc/s - 22 270 22 220 kc/s

455

(3) In Regions 2 and 3 the band 2088.5-2093.5 kc/s is reserved exclusively for calling (telegraphy only).

452.1 ¹ The frequencies in the band 25 070 - 25 110 kc/s shall be used as working frequencies in addition to frequencies in the band 22 148 - 22 400 kc/s.

56 -

AUS/54(4)

455 (3) In Regions 2 end-3 the band 2088.5 - 2093.5 kc/s is reserved exclusively for calling (telegraphy only).

F/8(5) No. 447 Replace the present text by the following :

a) Ship stations, telephony

4063	-		kc/s
6200	-	6211	kc/s
8195	-	8280	kc/s
12330	~	12421	kc/s
16460	-	16558	kc/s
22000	-	22100	kc/s

Reasons :

MOD

Since all ship stations are eventually due to work on SSB, the "working frequencies" part of Appendix 15B no longer seems to be necessary and the channels shown there can be assimilated to the other radiotelephone channels in Appendix 17. Subject to the availability of associated frequencies for the direction land-ship (see Proposal No. F/8(6) relating to No. 448), an additional number of channels can be set up to meet the new maritime radio service requirements.

No. 449 RR is correspondingly deleted.

In the same way, the calling frequencies set out in No. 450 RR can be deleted because selective calling will be used.

These channels can also be incorporated in Appendix 17 as indicated above. No. 450 is correspondingly deleted (see diagram, Annex II).

F/8(6) No. 448 Replace the present text by the following :

b) Coast stations, telephony

4361		8 kc/s
6514		5 kc/s
8731		5 kc/s
13109		0 kc/s
17262	- 1736	0 kc/s
22620	- 2272	0 kc/s

Reasons :

The frequency bandwidths reserved for coast radiotelephone stations are increased, in line with the amendments proposed for the frequency bandwidths for ship radiotelephone stations, thus providing pairs of associated frequencies.

The supplementary bandwidths are taken from the bands provided in No. 452 RR and Appendix 15 Section A for low-traffic ship radiotelegraph station transmissions. The frequencies reserved for coast-station radiotelegraph and facsimile traffic are all displaced by the same quantity to lower frequencies, without altering the separation between them and by transferring the assignment.

The number of working frequencies to be assigned to lowtraffic ships is in general reduced from 98 to 84. This proposal is justified by the traffic-density in this band, which is at present tolerable, the increase in the number of large ships compared with small, and the expansion of radiotelephony (see diagram, Annex II).

F/8(7) No. 449 Delete this number

Reasons :

See Proposal No. F/8(5) relating to No. 447.

F/8(8)

No. 450 Delete this number

Reasons :

See Proposal No. F/8(5) relating to No. 447.

F/8(9)

No. 451 Replace

-16562 - 16622 kc/s by- 16558 - 16622 kc/s

Reasons :

See Proposal No. F/8(5) relating to No. 447.

<u>Ref.</u> F/8(6) (cont.) F/8(10) No. 452 Replace the present text by the following :

Ship stations, telegraphy

4160 - 4231 kc/s 6240 - 6346 kc/s 8320 - 8462 kc/s 12471 - 12693 kc/s 16622 - 16924 kc/s 22148 - 22370 kc/s 25070 - 25110 kc/s (1)

Reasons ':

The frequency bands used for radiotelegraphy by low-traffic ship stations are reduced because of the increases in the frequency bands proposed in Nc. 448. This reduction entails a reduction in the number of working frequencies assigned in both Group A and Group B. See Proposal No. F/8(6) relating to No. 448 and diagram, Annex II.

F/8(11) No. 453 Replace the present text by the following :

Coast stations, wide-band radiotelegraph systems, facsimile, special transmission systems, teleprinters, data transmission and manual telegraphy.

361 ko/s
514 ke/s
731 ko/s
.09 kc/s
262 kc/s
520 kc/s

Reasons :

The result of the changes (F/8(6) and F/8(10)) proposed to Nos. 448 and 452. It is proposed that the frequency bands in No. 453 be shifted to lower frequencies. See the reason for the proposal relating to No. 448, and attached draft Resolution No. IB (Proposal No. F/8(53)) relating to the transfer of frequency assignments.

The title is, moreover, worded in the same way as the title of No. 451 so that ship stations and coast stations can use their respective bands for the same purposes. See also proposal relating to Point 7.1 of the agenda (Document No. 14). Ref.

G/77(39) MOD

(a) Ship stations, telephony

4 763 - 4 140 kc/s 6 200 - 6 211 kc/s 8 195 - 8 280 kc/s 12 330 - 12 421 kc/s 16 460 - 16 562 kc/s 22 000 - 22 100 kc/s

Reasons :

447

To include the frequency bands listed in Nos. 449 and 450 consequential upon the inclusion of these frequencies in a revised Appendix 17, Section B.

MOD	448	(b) <u>Coast Stations</u> , telephony
		4 361 - 4 438 kc/s
		6 514.5- 6 525 kc/s
		8 731 - 8 815 kc/s
		13 109 - 13 200 kc/s
		17 262 - 17 360 kc/s
		22 620 - 22 720 kc/s

Reasons :

To provide additional channels associated with the corresponding ship station frequencies formerly in Appendix 15, Section B.

SUP 449 and 450

Reasons :

Included in No. 447.

MOD 452 (d) Ships stations, telegraphy

· •

4 160- 4 231 kc/s 16 622-16 924 kc/s 6 240- 6 346.5 kc/s 22 148-22 370 kc/s 8 320- 8 462 kc/s 25 070-25 110 kc/s¹ 12 471-12 693 kc/s

Reasons :

To provide for coast station radiotelephone channels. Consequential upon amendment of No. 448.

MOD

¹ The frequencies in the band 25 070 -25 110 ko/s shall be used as working frequencies in addition to frequencies in the band 22 148 - 22 370 kc/s.

Reasons :

452.1

Consequential upon amendment of No. 452.

<u>Réf</u>.

G/77(39) (contd.) MOD

453

453.1

(e) <u>Coast stations</u>, telegraphy. facsimile and special transmisssion systems

4 231 - 4 361 kc/s 6 346.5- 6 514.5 kc/s 8 462 - 8 731 kc/s 12 693 - 13 109 kc/s 16 924 - 17 262 kc/s 22 370 - 22 620 kc/s^T

Reasons :

Heading amended (see Agenda Item 2.5, G/56(3), Document No. 56. Frequency band amended consequential upon amendment of No. 448.

MOD

Frequencies in the bands 25,010 -25 070 kc/s, 25 110 - 25 600 kc/s, and 26 100 -27 500 kc/s may be assigned to coast stations. They are then considered as frequencies additional to those in the band 22 370-22 620 kc/s.

Reasons:

Consequential upon amendment to No. 453.

G/78 SUP 455

Reasons :

Covered by No. 1139.

Ref.

HOL/72(9)

447

a)

40634133	<u>4063 - 4140</u> kc/s ₁
	$6200 - 6211 \text{ kc/s}^{1}$
81958265	<u>8195 – 8280</u> kc/s
1233012400	12330 - 12421 kc/s
1646016530	<u> 16460 – 16558</u> kc/s
2200022070	22000 - 22092 kc/s

Reasons :

MOD

In order to meet the increasing requirements of the maritime mobile radiotelephone service, the greater part of the frequencies listed in the present Appendix 15, Section B, is transferred to the ship station telephony bands.

447.1¹ (footnote) ADD

> For particular conditions concerning the use of 6204 kc/s see No. 1353.

Reasons :

Consequential upon the inclusion of the frequencies listed in the present Appendix 15, Section B, in the revised bands allocated to the radiotelephone service.

MOD	448	b)	Coast Stations,	telephony	(<u>duplex</u>)
-----	-----	----	-----------------	-----------	-------------------

43684438	4361 - 4438
	6514 - 6525
87458815	8730 - 8815
1313013200	13109 - 13200
1729017360	17262 - 17360
2265022720	22628 - 22720

kc/s

kc/s

kc/s kc/s

kc/s

kc/s

Reasons :

To provide for corresponding coast station telephone channels, a similar portion of the coast station telegraphy bands, at present adjacent to the lower end of the coast station telephony bands, is transferred to the latter bands.

HOL/72(9) (contd.)

449

c)

Ship stations, telephony (single-sideband enly) (simplex/duplex)

41334140			
62006211	6211 -	6215	kc/s
82738280	8280 -	8284.5	kc/s
1240712421	12421 -	12429	kc/s
1653716562	16558 -	16573	kc/s
2207822100	22092 -	22096	kc/s

Reasons :

MOD

1. By reducing the frequency spacing in the existing high traffic bands so as :

- a) to obtain the same number of frequencies within a smaller band, and
- b) to reserve a portion of the remaining part of the high traffic bands for teleprinter and data transmission systems,

it is possible to move up the present bands for wide-band telegraphy etc., in order to provide frequency space for the purposes indicated in Nos. 449 and 450.

2. To obtain additional radiotelephone channels for general use of all maritime mobile stations. These frequencies could be used for the following purposes :

- a) as ship-shore working frequencies for ships wishing to communicate with a coast station of a nationality other than their own and which are not provided with a working frequency associated with that of the coast station in accordance with Appendix 17.
- b) in case of poor receiving conditions on the working frequency associated with that of the coast station in accordance with Appendix 17, the coast station may request a ship to change to transmission on one of these frequencies.
- c) for single channel simplex operation between ship and coast stations with limited power, when traffic density is high on the duplex working frequencies.
- d) for inter-ship communication.

See also proposal relating to Agenda Item 3, No. 1357 (HOL/72(11)).

- 64 d) Ship stations, telephony (deuble-sideband calling_channel)

•	4140 - 4144 kc/s
82658273	8284.5 - 8288 kc/s
1240012407	12429 - 12434 kc/s
1653016537	16573 - 16578 kc/s
2207022078	22096 - 22100 kc/s

Reasons :

The Netherlands Administration is of the opinion that calling frequencies for radiotelephony are essential. When no calling frequencies are provided a ship station calling a coast station should use the working frequency associated with that of the coast station in accordance with Appendix 17.

It will be impractical for a ship, calling coast stations of other nationalities, to be equipped with numerous crystals.

See also proposal relating to No. 449).	
---------------------------------------	----	--

MOD

451	•	e)	Ship stations, widekand telegraphy,
	-	1	facsimile, and special transmission
			systems
			1740 1760 1744 1764 200 /0

			41404160	<u>4144 – 4164</u> kc/s	
•			62116240	6215 - 6244 kc/s	
			82808320	8288 - 8327.5 kc/s	
			1242112471	12434 - 12484 kc/s	
	Reasons	0	1656216622	16578 - 16638 kc/s	
	Reabons	0	2210022148	22100 - 22148 kc/s	
				(10) (10) (20)	

See proposal relating to No. 449 (HOL/72(9)).

ADD	451 A	e) (bis)	Ship stations,	teleprinter and
			data transmissi	

4164 -	4170.5	kc/s
6244 -	6255.75	kc/s
8327.5	-8341	kc/s
12484 -	12511.5	kc/s
16638 -	16682	kc/s
22148 -	22191	kc/s

Reasons :

See proposals relating to No. 449 (HOL/72(9)) and Agenda Item 7.1 (Document No. 75).

<i>I</i> OD

Reasons :

· N

45**2**

f) Ship stations, telegraphy

416 9 6249		4170.5 -		
8320	8476 8	3341 -	8461	kc/s
124711	2714 12	2511.5 -	12693	kc/s
166221	6952 16	5682 -	16924	kc/s
221482	2400 22	2191 -	22378	kc/s
250702	25110 ± 25			$kc/s \pm$

The frequency bands assigned to low traffic ships are reduced to accommodate the coast station telegraphy bands to be transferred as proposed in No. 453.

See also proposal relating to No. 449 (HOL/72(9)),

HOL/72(9) (contd.)

(footnote)

1

The frequencies in the band 25070 -25110 kc/s shall be used as working frequencies in addition to frequencies in the band 22148 - 22400 22378 kc/s.

Reasons :

MOD

452.1

453

To be consistent with the proposal relating to No. 452.

MOD

g) Coast stations, telegraphy, <u>wideband</u> <u>telegraphy</u> and, facsimile <u>and special</u> <u>transmission systems</u>.

42384368 63576525 84768745 1271413130 1695217290	$\frac{4231 - 4361}{6346 - 6514} \text{ kc/s}$ $\frac{6346 - 6514}{8461 - 8730} \text{ kc/s}$ $\frac{12693 - 13109}{16924 - 17262} \text{ kc/s}$
1695217290 2240022650 ¹	$\frac{16924 - 17262}{22378 - 22628} \text{ kc/s} = \frac{1}{2}$

Reasons :

Consequential upon the proposals relating to Nos. 448 and 452, the coast station telegraphy bands to be transferred are accommodated in a part of the low traffic ship telegraphy bands cleared for that purpose.

HOL/71(8)

In No. 1188 working frequencies are assigned to ship stations using wide-band telegraphy, facsimile and special transmission systems.

However, the Radio Regulations do not explicitly indicate the frequencies on which coast stations should employ these types of emission. The proposed amendment will bring the relevant provisions into line with one another.

MOD

453.1

(footnote)

1

Frequencies in the bands 25010 -25070 kc/s, 25110 - 25600 kc/s, and 26100 - 27500 kc/s may be assigned to coast stations. They are then considered as frequencies additional to those in the band 22400---22650 22378 - 22628 kc/s.

Reasons :

To be consistent with the proposal relating to No. 453.

I/33(18)	MOD	447	a) Ship stations, telephony :
			4063 - 4136.5 kc/s
·			6200 - 6207 kc/s
			8195 - 8276.5 kc/s
			12.330 - 12 417.5 kc/s
		- 1	16 460 - 16 558.5 kc/s
		· ·	22 000 - 22 096.5 kc/s
	MOD	448	b) Coast stations, telephony :
			4364.5 - 4438 kc/s
			6518 - 6525 kc/s
			8735 - 8815 kc/s
			13 112.4 - 13 200 kc/s
			17 261.9 - 17 360 kc/s
			22 625.4 - 22 720 kc/s
	ADD	449 AA	c) Ship stations, ocean data transmission :
		• •	4136.5'- 4140 kc/s
			6207.5 - 6211 kc/s
			8276.5 - 8280 kc/s
			12 417.5 - 12 421 kc/s
			16 558.5 - 16 562 kc/s
			22 096.5 - 22 100 kc/s
	ADD	449 AB	The frequency bands listed under No. 449 AA may also be used by buoy stations for ocean data transmission and by stations telecommanding these buoys.
	SUP	449	
	SUP	450	

Ref.

I/33(18) (contd.)

452

MOD

f) Ship stations, telegraphy :

4160 - 4231 kc/s 6240 - 6346 kc/s 8320 - 8461 kc/s 12 471 - 12 692 kc/s 16 622 - 16 922 kc/s 22 148 - 22 368 kc/s 25 070 - 25 110 kc/s 1)

MOD 453

g) Coast stations, wideband telegraphy, telegraphy, facsimile and special transmission systems:

4231 - 4364.5 kc/s 6346 - 6518 kc/s 8461 - 8735 kc/s 12 692 - 13 112.4 kc/s 16 922 - 17. 261.9 kc/s 22 368 - 22 625.4 kc/s

Reasons :

The above-listed modifications are a consequence of the new sub-division of frequency bands resulting from the tables in Appendices 15 and 17.

The modification of the title of No. 453 aims to fill a gap in the present text of the Radio Regulations. As a matter of fact, while for ship stations the text indicates frequency bands to be used for special transmission systems and for wideband telegraphy, such an indication does not exist for coast stations. Since for radiotelegraph coast stations no frequency bands other than those listed under No. 453 exist, it is necessary to include in the title of this number the systems not mentioned therein. 1ND/97(2)

Nos.447 & 448

Include two double sideband radiotelephone channels for use each by ship and coast stations in Region 3, in the 6 Mc/s band exclusively allocated for the Maritime Mobile Service.

Reasons :

The Radio Regulations, Geneva, 1959, do not provide for double sideband radiotelephone communication between ship and coast stations in the 6 Mc/s band. The need for radiotelephone communication facility between coast and ship stations on 6 Mc/s band is being felt for long, since under certain conditions frequencies in 4 Mc/s band are found to be too low while those in 8 Mc/s band too high to provide reliable R/T communication.

IND/98(3)

Recognising the utility and importance of oceanographic data and the desirability of accommodating oceanographic communications in the exclusive HF maritime mobile bands it is proposed that allocation of frequencies required for oceanographic communications may be made from the exclusive HF bands reserved for

451

(e) Ship stations wideband telegraphy, facsimile, and special transmission systems

(g) Coast stations, telegraphy and facsimile.

and

453

Reasons :

It may not be desirable to meet the requirement from the exclusive HF maritime mobile bands for radio telegraphy or radio telephony, as a number of countries are likely to continue the use of radio telegraphy and double sideband radio telephony technique for Maritime Mobile Service for a considerable length of time to come.

Réf.	
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CAN/40(13)

(c). Ship stations, telephony (single sideband only).

4133 - 4136.5 kc/s 6200 - 6207.5 kc/s 8273 - 8276.5 kc/s 12 407 - <u>12 417.5 kc/s</u> 16 537 - <u>16 558.5 kc/s</u> 22 078 - 22 096.5 kc/s

<u>Reasons</u>:

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MOD

449

Consequential to the Canadian proposal to allocate the upper channels of Appendix 15, Section B to the ocean data service.

J/84(3)

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MOD

449

(c) <u>Coast stations and ship stations</u>, telephony (single sideband <u>simplex channelling</u> only)

	4133 - 4140 kc/s
	6200 - 6211 kc/s
8265	8273 - 8280 kc/s
12 400	12 407 - 12 421 kc/s
16 530	16-537 - 16 562 kc/s
22 070	<u>22-078</u> - 22 100 kc/s

J/84(4)

450

455

Reasons :

SUP

In conversion to SSB of DSB calling frequency bands for the maritime mobile radiotelephony mentioned in Section B of Appendix 15, it is proposed to use the frequency bands in No. 449 for simplex operation by coast and ship stations and to expand them up to the frequency bands in the double sideband calling channel allocated in No. 450, in order to make effective use of frequencies.

J/90

(3) In Regions 2 and 3 the band 2088.5 - 2093.5 kc/s is reserved exclusively for calling and safety (tele-graphy only).

Reasons :

MOD

It is requested that in Regions 2 and 3, in the bands between 1605 - 2850 kc/s, frequencies in the band between 2088.5 - 2093.5 kc/s should be designated as a safety frequency band in the radiotelegraphy maritime mobile service. (See Agenda Item 1, Document No. 84 and 7.2, Document No. 89).

Ref.	•		
USA/17(20)	MOD	449	<pre>(c) Ship stations and coast stations operating <u>in accordance with No. 1357</u>, telephony (single side-band only)</pre>
			$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
USA/17(21)	SUP	450	
0011 - (()		4,70	
USA/17(22)	AD D	450A	(d) Ocean data and ocean data telecommand stations, telegraphy
			$\frac{4136.5}{6207.5} - \frac{4140}{6211} \text{ kc/s}$ $\frac{6207.5}{8276.5} - \frac{6211}{8280} \text{ kc/s}$ $\frac{12417.5}{16558.5} - \frac{12421}{16562} \text{ kc/s}$ $\frac{16558.5}{22096.5} - \frac{22100}{22100} \text{ kc/s}$
USA/17(25)	MOD	453	(g) Coast stations, telegraphy, and facsimile, including wideband telegraphy and special transmission systems
			4238 - 4368 kc/s 6357 - 6525 kc/s 8476 - 8745 kc/s 12714 - 13130 kc/s

71 -

NOC 453.1

Reasons :

While No. 453 already provides bands in which wideband telegraphy and special transmission systems may be accommodated, it is desirable to change the title to make this more clear.

16952 - 17290 kc/s22400 - 22650 kc/s¹

Background :

No. 1188 provides working frequencies in the 4 to 27.5 Mc/s range for ship stations using wideband telegraphy, facsimile and special transmission systems. However, the Radio Regulations do not specify the frequencies on which coast stations should employ these emissions.

No. 453 provides for the use of telegraphy and facsimile in the coast telegraph bands between 4 and 27.5 Mc/s. No. 1147 prohibits coast telegraph stations from using Type 2 emission. Thus, such stations may use Types 1, 4, 6, 7, and, in some cases, Type 9 emissions and the U.S. proposal is intended to clarify this use.

Ref.

Proposal

USSR/49(2) It i channels for s

It is proposed to consider the possibility of taking channels for ship and coast radiotelephone stations away from the AF portion of the 6123 - 6237 kc/s band, allocated to wideband telegraphy, facsimile and special transmissions (see also the proposal concerning Agenda Item 3).

Comments

Since the sea-going fleet has been greatly improved in the last 10 - 15 years by more up-to-date ships capable of high speeds, it really has become possible for ships in distress to be effectively helped by other ships situated a long way from the area concerned (1000 - 1500 km). The Radio Regulations do not provide, on a world-wide basis, special frequencies in the 3 and 6 Mc/s bands for intership radiotelephone traffic in emergencies. The Soviet Administration therefore proposes that the possibility be considered of allocating a frequency in the 3155 - 3200 kc/s range on a world-wide basis and that the right to use frequency 6204 kc/s for this service be extended to all regions of the world.

<u>Agenda Item 2.5</u>: Frequencies to be used by coast stations for wideband telegraphy, facsimile, and special transmission systems.

Proposal

USSR/49(5)

It is proposed that existing arrangements for the registration and use of frequencies in these services be maintained.

Proposals relating to

Article 7

 N^{OS} 456 and 457

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- 456 § 13. (1) Appendix 17 shows the two-way radiotelephone channels of the maritime mobile service in the frequency bands listed in Nos. 447 and 448.
- 457 (2) Appendix 25 contains the allotment plan for radiotelephone coast stations in the bands listed in No. 448. If necessary, an Extraordinary Administrative Radio Conference to which all the Members and Associate Members of the Union would be invited could be convened in accordance with the provisions of Article 7 of the Convention for the purpose of revising Appendix 25 and if required, Appendix 17, as well as other relevant provisions of these Regulations.

ARTICLE 7

Ref.		Specia	al Rules relating to particular services
·			Add a new section following Section IV to read :
CAN/39(1)	ADD	1	Section IV-A. Technical provisions relating to the use of single sideband radiotelephone emissions in the Maritime Mobile Service.
	ADD	457A	Para. 13(bis)(1). Modes of operation :
	ADD	457B	(2). <u>Stations fitted only with single sideband</u> equipment and requiring communication with double sideband stations shall be capable of operation in the full carrier (A3H) mode.
	DD	457C	(3). <u>Single sideband transmitters shall have</u> a carrier level below peak envelope power in accordance with the following :
			$\frac{A3H - 8 \pm 2 \text{ db}}{A3A - 16 \pm 2 \text{ db}}$ $\frac{A3J - \text{at least } 40 \text{ db}}{A3J - \text{at least } 40 \text{ db}}$
	ADD	45 7 D	(4). The carrier (reference) frequencies of the transmitters shall be maintained within the following tolerances :
			<u>Coast stations ± 20 c/s</u> Ship stations <u>± 50 c/s</u>
	DD	457E	(5). In a single sideband A3H, A3A or A3J transmission, the mean power of any emission supplied to the antenna transmission line of a station on a discrete frequency, shall be less than the mean power (Pm) of the transmitter in accordance with the following table :
	ADD	457F	(6). Frequency separation Δ Minimum attenuation from the assigned below mean power frequency kc/s (P_m) db
			$\frac{1.50 < \Delta \le 5.25}{5.25 < \Delta \le 8.75} \qquad \frac{25}{35}$ $\frac{8.75}{25} < \Delta \le 8.75 \qquad \frac{43+10 \text{ Log 10 Pm (Watts)}}{25}$
	ADD	457G	Para. 13(ter).(1). Channel utilization A station using single sideband emissions shall
			be considered to be operating in accordance with these Regulations if the necessary band- width is confined within either the upper or lower half of a channel provided for double sideband emissions.

Re	f	•

 (contd.) ADD 457H (2). <u>When operating in the upper half of a double sideband channel the station shall use upper sideband channel.</u> ADD 457I (3). <u>When operating in the lower half of a double sideband channel.</u> ADD 457I (3). <u>When operating in the lower half of a double sideband channel.</u> ADD 457I (3). <u>When operating in the lower half of a double sideband channel.</u> the station shall use upper sideband emissions with the carrier (reference) frequency in accordance with the following: <u>Dand below the centre of the double sideband channel</u>. <u>Dand below the centre of the double sideband channel</u>. <u>Dand below the centre of the double sideband channel</u>. <u>Dand below the centre of the double sideband channel</u>. <u>Dand below the centre of the double sideband channel</u>. <u>Dand below the centre of the double sideband channel</u>. <u>ADD 457I (4). Station semploying single sideband emissions on 2102 kofs shall be restricted to the upper half of the double sideband channel</u>. <u>ADD 457K (5). A station using single sideband emissions shall have an assigned frequency 1400 cycles per second higher than the carrier (reference) frequence) frequency.</u> ADD 457K (6). The single sideband working frequencies given in Section B of Appendix 15 may be assigned for shin to shore, shore to shin, and intership simplex operations. ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband radictelephone transmissions if possible by 1 January 1973. As from 1 January 1974 double sideband emissions shall be prohibited except on 2182 kc/s. 				
 ADD 457I (3). When operating in the lower half of a double sideband channel the station shall use upper sideband emissions with the carrier (reference) frequency in accordance with the following: Band Delow 4 Mc/s 3000 c/s 4 and 8 Mc/s 3100 c/s 4 and 8 Mc/s 3100 c/s 3100 c/s 4 and 8 Mc/s 3100 c/s 31	CAN/39(1) (contd.)	ADD	457H	upper sideband emissions with the carrier (reference) frequency at the centre of the
Band below the centre of the double sideband channel Below 4 Mc/s 3000 c/s 4 and 8 Mc/s 3100 c/s above 8 Mc/s 32000 c/s ADD 457J (4). Stations employing single sideband emissions on 2182 kc/s shall be restricted to the upper half of the double sideband channel with the carrier (reference) frequency of 2162 kc/s. ADD 457K (5). A station using single sideband emissions shall have an assigned frequency 1400 cycles per second higher than the carrier (reference) frequency. ADD 457L (6). The single sideband working frequencies given in Section B of Appendix 15 may be assigned for ship to shore, shore to ship, and intership simplex operations. ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband mother transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro-		ADD	457I	(3). When operating in the lower half of a double sideband channel the station shall use upper sideband emissions with the carrier (reference) frequency in accordance with the following :
4 and 8 Mc/s 3100 c/s above 8 Mc/s 3300 c/s ADD 457J (4). Stations employing single sideband emissions on 2182 kc/s shall be restricted to the upper half of the double sideband channel with the carrier (reference) frequency of 2182 kc/s. ADD 457K (5). A station using single sideband emissions shall have an assigned frequency 1400 cycles per second higher than the carrier (reference) frequency. ADD 457L (6). The single sideband working frequencies given in Section B of Appendix 15 may be assigned for ship to shore, shore to ship, and intership simplex operations. ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1972. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro-				Band below the centre of the
 above 8 Mc/s <u>3300 c/s</u> ADD 457J (4). Stations employing single sideband emissions on 2182 ko/s shall be restricted to the upper half of the double sideband channel with the carrier (reference) frequency of 2182 kc/s. ADD 457K (5). A station using single sideband emissions shall have an assigned frequency 1400 cycles per second higher than the carrier (reference) frequency. ADD 457L (6). The single sideband working frequencies given in Section B of Appendix 15 may be assigned for ship to shore, shore to ship, and intership simplex operations. ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro- 				Below 4 Mc/s 3000 c/s
 ADD 457J (4). <u>Stations employing single sideband</u> <u>emissions on 2182 kc/s shall be restricted to</u> <u>the upper half of the double sideband channel</u> <u>with the carrier (reference) frequency of</u> <u>2182 kc/s</u>. ADD 457K (5). <u>A station using single sideband emissions</u> <u>shall have an assigned frequency 1400 cycles</u> <u>per second higher than the carrier (reference)</u> <u>frequency</u>. ADD 457L (6). <u>The single sideband working frequencies</u> <u>given in Section B of Appendix 15 may be</u> <u>assigned for ship to shore, shore to ship, and</u> <u>intership simplex operations</u>. ADD 457M (7). <u>Administrations are urged to discontinue,</u> <u>in the maritime mobile service, the use of</u> <u>double sideband radiotelephone transmissions</u> <u>if possible by 1 January 1973</u>. <u>As from</u> <u>1 January 1970 new double sideband installations</u> <u>shall no longer be permitted. As from 1 January</u> <u>1974 double sideband emissions shall be pro-</u> 			-	4 and 8 Mc/s 3100 c/s
 emissions on 2182 kc/s shall be restricted to the upper half of the double sideband channel with the carrier (reference) frequency of 2182 kc/s. ADD 457K (5). A station using single sideband emissions shall have an assigned frequency 1400 cycles per second higher than the carrier (reference) frequency. ADD 457L (6). The single sideband working frequencies given in Section B of Appendix 15 may be assigned for ship to shore, shore to ship, and intership simplex operations. ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro- 				<u>above 8 Mc/s</u> <u>3300 c/s</u>
 with the carrier (reference) frequency of 2182 kc/s. ADD 457K (5). A station using single sideband emissions shall have an assigned frequency 1400 cycles per second higher than the carrier (reference) frequency. ADD 457L (6). The single sideband working frequencies given in Section B of Appendix 15 may be assigned for ship to shore, shore to ship, and intership simplex operations. ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro- 		ADD	457J	emissions on 2182 kc/s shall be restricted to
 ADD 457L (6). The single sideband working frequencies given in Section B of Appendix 15 may be assigned for ship to shore, shore to ship, and intership simplex operations. ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro- 		, .		with the carrier (reference) frequency of
 ADD 457L (6). The single sideband working frequencies given in Section B of Appendix 15 may be assigned for ship to shore, shore to ship, and intership simplex operations. ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro- 		ADD	457K	
ADD 457M (7). Administrations are urged to discontinue, in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro-				per second higher than the carrier (reference)
ADD 457M (7). <u>Administrations are urged to discontinue</u> , in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro-		ADD	457ь	given in Section B of Appendix 15 may be
in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro-				
		ADD	457M	in the maritime mobile service, the use of double sideband radiotelephone transmissions if possible by 1 January 1973. As from 1 January 1970 new double sideband installations shall no longer be permitted. As from 1 January 1974 double sideband emissions shall be pro-

Reasons :

The advantages of single sideband have been recognized as a means of alleviating the congestion in the frequency bands allocated to the maritime mobile service. It is also recognized that there are disadvantages from an economic viewpoint and it will require a number of years before full implementation of SSB is possible. It is considered that the foregoing technical principles which are generally in accordance with those adopted by the C.C.I.R. would provide for an orderly transition to SSB.

77 -Ref. F/8(12) No. 457 Delete the second sentence Reasons : This provision is met by the convening of the present Conference. SUP G/77(39) 457 Reasons : Appendix 25 replaced by procedure outlined in Annex V. J/84(5) 457 SUP Reasons : Consequential to the abrogation of Appendix 25. This provision is met by the convening of the present Conference (see Agenda Item 3, J/86(44), Document No. 86).

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Proposals relating to

Article 7

New Section V-A

<u>Ocean Data Service</u>

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(7) In Region 1, for maritime radiobeacons, the depth of modulation should be at least 70%.

Section VI. Fixed Service

General

464

465 § 15. (1) Administrations are urged to discontinue, in the fixed service, the use of double sideband radiotelephone transmissions in the bands below 30 Mc/s, if possible as from January 1, 1970.

Ref.

CAN/40(14)

Section V-A. Ocean Data Service

ADD 464A <u>Para. 14(bis)(1).</u> The bands exclusively allocated to the ocean data service between 4000 and

After 464 add the following new section :

27 500 kc/s	are as follows :
<u>4136.5 -</u>	4140 kc/s
6207.5 -	6211 kc/s
8276.5 -	8280 kc/s
12 417.5 -	<u>12 421 kc/s</u>
16 558.5 -	16 562 kc/s
22 096.5 -	22 100 kc/s

ADD

ADD

464B (2). <u>These channels shall be used for multi-</u> channel telegraphy systems only.

Reasons :

It is considered that the requirement of the ocean data service is justified and in view of the benefits which may be derived from it by the maritime mobile service it is appropriate that the above frequencies be allocated for ocean data purposes.

<u>Proposal</u>

USSR/49(4)

It is proposed that the question of allocating frequency bands for the oceanographic service be examined after the competent organizations, (I.O.C., W.M.O.), have drawn up a legal code for the system, a plan showing the location of oceanographic stations, their system of operation, the systems for collecting and transmitting oceanographic information, and other technical questions. It will then be possible to make a proper assessment of its radio frequency requirements.

Comments

In view of the importance of creating a world system for the transmission of oceanographic data, the need for radio frequencies for this system could be met at the expense of the bands allotted at present to the Maritime Mobile Service. However, specific frequencies cannot be allocated until certain organizational and technical questions have been settled and an international legal code governing a world system for the transmission of oceanographic data has been established. In this connection, we consider it advisable to recommend to the Inter-Governmental Oceanographical Commission (I.O.C.), and the World Meteorological Organization (W.M.O.) to prepare, for the next Administrative Conference of the I.T.U., a definite plan for the creation of a network of oceanographic stations to collect and transmit information, an international legal code for the system, and other essential data so that a sound technical assessment and examination can be made of the system's working frequency requirements.

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Proposals relating to

Article 9

Notification and Recording of Frequencies in the Master International Frequency Register

N^o 488 and 500

Section I. Notification of Frequency Assignments

(3) Specific frequencies prescribed by these Regulations for common use by stations of a given service (for example, international distress frequencies 500 kc/s and 2182 kc/s, frequencies of ship radiotelegraph stations operating in their exclusive high frequency bands, etc.), shall not be notified to the Board.

Section II. Procedure for the Examination of Notices and the Recording of Frequency Assignments in the Master Register

500 § 9. (1) Except for notices referred to in Nos. 541, 547, 552, 561 and 568, the Board shall examine each notice with respect to

a

a) its conformity with the Convention, the Table of Frequency Allocations and the other provisions of the Radio Regulations (with the exception of those relating to the probability of harmful interference);

b) the probability of harmful interference to the service rendered by a station for which a frequency assignment already recorded in the Master Register :

1) bears a date in Column 2a (see No. 607); or

2) is in conformity with the provisions of No. 501 and bears a date in Column 2b (see No. 608), but has not, in fact, caused harmful interference to any frequency assignment with a date in Column 2a or to any assignment in conformity with No. 501 with an earlier date in Column 2b; or

c) the probability of harmful interference to the service rendered by a station for which a frequency assignment already recorded in the Master Register :

 is in conformity with the provisions of No. 501 and either bears a symbol¹ in Column 2d (see No. 610), or was recorded in the Master Register with a date in this column as a result of a favourable finding with respect to No. 503; or

502

501

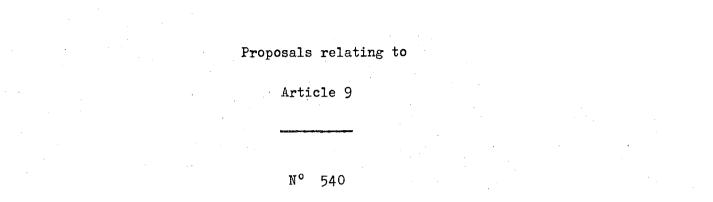
488

503

²⁾ is in conformity with the provisions of No. 501 and was recorded in the Master Register with a date in Column 2d after an unfavourable finding with respect to No. 503, but has not, in fact, caused harmful interference to any frequency assignment previously recorded in the Master Register and which is in conformity with No. 501.

^{503.1 &}lt;sup>1</sup> This symbol indicates an assignment notified pursuant to No. 272 of the Agreement of the Extraordinary Administrative Radio Conference, Geneva, 1951, or, in the frequency bands above 27 500 kc/s, an assignment for which the notice was received by the Board before 1 April 1952.

		- 85 -
	· · ·	- 0) -
Ref.		
J/86(46)	MOD 488	(3) Specific frequencies prescribed by these Regulations for common use by stations of a given service (for example, international distress frequencies 500 kc/s and 2182 kc/s, frequencies of ship radiotelegraph stations operating in their exclusive high frequency
		bands and frequencies contained in Section B of Appendix 17, etc.), shall not be notified to the Board.
J/86(47)	MOD 500	S9(1) Except for notices referred to in Nos. 541, 547, 552, 561 and 568, the Board shall examine each notice with respect to
USA/18(27)	MOD 488 '	Paragraph (3) Specific frequencies prescribed by these Regulations for common use by stations of a given service (for example, international distress frequencies 500 kc/s and 2182 kc/s, frequencies of ship radiotelegraph stations operating in their exclusive high frequency bands, frequencies of ship and coast stations used for single sideband single channel simplex operation in accordance with No. 1357 etc.), shall not be notified to the Board.
	Reasons	
		ide that stations assigned the frequencies of dix 15 are not to be notified to the I.F.R.B.
USA/18(29)	MOD 500	8 9.(1) Except for notices referred to in Nos. 541,-547, 552, 561 and 568, the Board shall examine each notice with respect to
"0L/80(29)	Nos. 54	ph 9 (1) Except for notices referred to in 1, 547, 552, 561 and 568, the Board shall each notice with respect to
1/33(19)	ar	s a consequence of the revision of Appendices 15 nd 17 and of the withdrawal of Appendix 25, mend Article 9 as follows :
	No	ara. 9 (1) Except for notices referred to in os. 552, 561 and 568, the Board shall examine ach notice with respect to



- 537 (2) If a frequency assignment notified in advance of bringing into use has received favourable findings by the Board with respect to Nos. 501 and 502 or 503, it shall be entered provisionally in the Master Register with a special symbol in the Remarks Column indicating the provisional nature of that entry.
- 538 (3) If, within the period of thirty days (see No. 491) after the projected date of bringing into use, the Board receives confirmation from the notifying administration of the date of putting into use, the special symbol shall be deleted from the Remarks Column. In the case where the Board, in the light of a request from the notifying administration received before the end of the thirty-day period, finds that exceptional circumstances warrant an extension of this period, the extension shall in no case exceed ninety days.
- 539 (4) If the Board does not receive this confirmation within the period referred to in No. 538, the entry concerned shall be cancelled.

(5) The provisions of Nos. 537 to 539 do not apply to frequency assignments which are in conformity with the Allotment Plans appearing in Appendices 25, 26 and 27 to these Regulations; such frequency assignments shall be entered in the Master Register on receipt of the notice by the Board.

* Modified by the E.A.R.C. Aeronautical.

(MOD) 540

- 88° -

⊞OL / 80 (29)	MOD 5	40 (5) The provisions of Nos. 537 to 539 do not apply to frequency assignments which are in conformity with the Allotment Plans appearing in Appendices 25, 26 and 27 to these Regulations; such frequency assign- ments shall be entered in the Master Register on receipt of the notice by the Board.
I/33(19)	MOD 54	 (5) The provisions of Nos. 537 to 539 do not apply to frequency assignments which are in conformity with the Allotment Plans appearing in Appendices 26 and 27 to these Regulations; such frequency assignments shall be entered in the Master Register on receipt of the notice by the Board. As amended by the E.A.R.C. Aeronautical (R) (Geneva, 1966)
J/86(48)	MOD 54	0 (5) The provisions of Nos. 537 to 539 do not apply to frequency assignments which are in conformity with the Allotment Plans appearing in Appendices 25, 26 and 27 to these Regula- tions; such frequency assignments shall be entered in the Master Register on receipt of the notice by the Board.
USA/18(30)		Paragraph (5) The provisions of Nos. 537 to 539 do not apply to frequency assignments which are in conformity with the Allotment Plans appearing in Appendices 25, 26 and 27 to these Regulations; such frequency assignments shall be entered in the Master Register on receipt of the notice by the Board.

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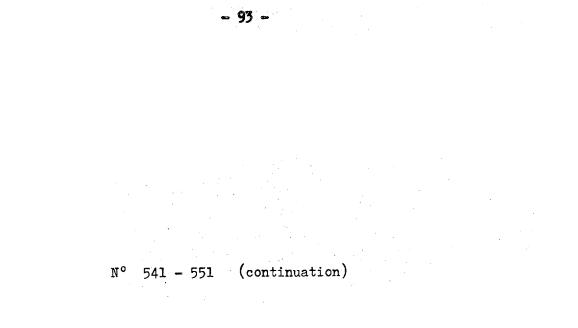
Proposals relating to Article 9 Deciminations N° 541 - 551

- 91 -

- 541 § 19. (1) Examination of Notices concerning Frequency Assignments to Radiotelephone Coast Stations in the Bands allocated exclusively to the Maritime Mobile Service between 4 000 and 23 000 kc/s for Radiotelephone Coast Stations (see No. 500).
- 542 (2) The Board shall examine each notice covered by No. 541 to determine whether the notified assignment is in conformity with an allotment in Section I or Section II of the Allotment Plan contained in Appendix 25 to these Regulations, i.e. whether the frequency, the area of allotment, the power and any limitations are those specified in that Appendix.
- 543 (3) Any frequency assignment for which the finding is favour-able with respect to No. 542 shall be recorded in the Master Register (see also No. 540). The date to be entered in Column 2a or 2b shall be that determined according to the relevant provisions of Section III of this Article.
- 544 (4) If a notice relates to an amendment to an assignment in conformity with an allotment in Section I or Section II of the Allotment Plan, which is only a change in the characteristics (including the frequency) of the emission of a radiotelephone coast station, without extending the necessary bandwidth beyond the upper or lower limits of the band provided for double sideband emissions in accordance with the Table in Appendix 17, the original assignment shall be amended according to the notice. The date to be entered in Column 2a or 2b shall be that determined according to the relevant provisions of Section III of this Article.
- 545 (5) In the case of a notice which is not in conformity with the provisions of Nos. 542 or 544, the Board shall examine this notice with respect to the probability of harmful interference to the service rendered by a radiotelephone coast station for which a frequency assignment:
 - a) is in conformity with one of the allotments in Section I or II of the Plan and is already recorded in the Master Register or may be so recorded in the future; or
 - b) was recorded in the Master Register on a frequency specified in Appendix 17 as a result of a favourable finding with respect to Nos. 544 or 545; or
 - c) was recorded in the Master Register on a frequency specified in Appendix 17 after an unfavourable finding with respect to Nos. 544 or 545, but has not, in fact, caused harmful interference to any frequency assignment to a radiotelephone coast station previously recorded in the Master Register.

546

(6) According to the finding of the Board with respect to No. 545, further action shall be in accordance with the provisions of Nos. 509 to 518 inclusive, or Nos. 532 to 534 inclusive, as appropriate, it being understood that in those provisions No. 545 shall be read for Nos. 501 and 502.



- 547 § 20. (1) Examination of Notices concerning Frequencies used for Reception by Radiotelephone Coast Stations in the Bands allocated exclusively to the Maritime Mobile Service between 4 000 and 23 000 kc/s for Radiotelephone Ship Stations (see Nos. 487 and 500).
- 548 (2) The Board shall examine each notice covered by No. 547 to determine whether the notified assignment corresponds to a frequency associated, according to Appendix 17, with a frequency allotted to the notifying administration under Section I or Section II of the Allotment Plan contained in Appendix 25 to these Regulations.
- 549 (3) Any frequency assignment for which the finding is favourable with respect to No. 548 shall be recorded in the Master Register. The date to be entered in Column 2a or 2b shall be that determined according to the relevant provisions of Section III of this Article.
- 550

(4) Where a notice relates to an amendment to an assignment of a frequency which is associated, according to Appendix 17, with a frequency allotted to the notifying administration under Section I or Section II of the Plan, and this amendment is only a change in the characteristics (including the frequency) of the emission of radiotelephone ship stations, without extending the necessary bandwidth beyond the upper or lower limits of the band provided for double sideband emissions in accordance with the Table in Appendix 17, the original assignment shall be amended according to the notice. The date to be entered in Column 2a or 2b shall be that determined according to the relevant provisions of Section III of this Article.

551

(5) Any assignment of a frequency for reception by a radiotelephone coast station which is not in conformity with No. 548 shall be recorded in the Master Register. The date to be entered in Column 2b shall be that determined according to the relevant provisions of Section III of this Article. F/10(63) MOD 541

Paragraph 19 (1) Examination of frequency notices concerning frequency assignments to coast radiotelephone stations operating in accordance with numbers 1351a or 1355a (see Proposals F/8(42) and F/8(46) respectively, Document No. 8), in the bands allocated exclusively to the maritime mobile service between 4000 kc/s and 23 000 kc/s for coast radiotelephone stations (see No. 500).

Reasons :

To keep the procedure now in force relative to the examination by the I.F.R.B. and entry in the Master Registry of assignments to coast stations only for SSB emissions with a necessary bandwidth of not more than 2.7 kc/s. The effect of the proposed amendment is to make the general procedure mentioned in Nos. 501 et seq. applicable to DSB assignment notices. In particular, the provisions of Nos. 530 or 531 apply in most cases. Moreover, the entry of a date in column 2 b), coupled with an unfavourable finding under Nos. 523 to 531, will not allow such an entry to enjoy the protection referred to in No. 608 since the notification will not be in accordance with sub-paragraph 2) of No. 502, i.e. it will definitively not be in accordance with No. 501 (conflict with a clause of the Regulations - in this case Nc. 1351a, which states that A3A and A3J emissions are to be used in the maritime mobile service). No. 541 would apply as soon as the Final Acts come into force, subject to exceptions relative to transitional arrangements specified in draft resolutions.

F/10(64) MOD

544

- Replace the words :

"... (including the frequency) of the emission of a radiotelephone coast station, without extending the necessary bandwidth beyond the upper or lower limits of the band provided for double sideband emissions in accordance with the Table in Appendix 17, the original assignment".

By the following :

"... (without a change in the carrier frequency) of the emission of a radiotelephone coast station, without extending the necessary bandwidth beyond the upper or lower limits of the band provided for single sideband emissions in accordance with Appendices 17 and 17bis (see proposal F/8(51), Document No. 8, the original assignment".

Reasons :

To align the provisions of Article 9 with the rules for using SSB. In particular, to specify that the shift of a carrier within the emission spectrum is a change requiring the application of No. 545.

Daf	
ver	

F/10(65)

MOD

547 - Replace the present text by the following :

Paragraph 20 (1) Examination of notices concerning frequencies used by radiotelephone coast stations for reception of emissions in accordance with No. 1351a or 1355a in the bands allocated exclusively to the maritime mobile service between 4000 and 23 000 kc/s for radiotelephone ship stations (see Nos. 487 and 500).

<u>Reasons</u> :

The reasons given under No. 541 (F/10(63)) are valid for the reception frequencies of coast stations.

HOL/80(29)	SUP 541, 542, 543, 544, 545, 546, 547, 548, 549, 550 and 551.
I/33(19)	SUP 541
	through
	SUP 551
J/86(49)	SUP 541 - 551
USA/18(31)	SUP 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551

Proposals relating to

Article 9

N° 573

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ART 9

Section III. Recording of Dates and Findings in the Master Register

571 § 24. In any case where a frequency assignment is recorded in the Master Register, the finding reached by the Board shall be indicated by a symbol in Column 13a. In addition, a remark indicating the reasons for any unfavourable finding shall be inserted in the Remarks Column.

MOD 5

572 § 25. The procedure for recording dates in the appropriate part of Column 2 of the Master Register which shall be applied according to the frequency bands and services concerned is described in the following Nos. 573 to 604 for frequency assignments referred to in Sub-Section IIA.

573 § 26. (1) Frequency Bands:

10 - 2 850 kc/s 3 155 - 3 400 kc/s 3 500 - 3 900 kc/s in Region 1 3 500 - 4 000 kc/s in Region 2 3 500 - 3 950 kc/s in Region 3 4 238 - 4 368 kc/s 6 357 - 6 525 kc/s 8 476 - 8 745 kc/s 12 714 - 13 130 kc/s 16 952 - 17 290 kc/s 22 400 - 22 650 kc/s

574

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- (2) For any assignment to which the provisions of Nos. 510,511 or 514 apply, the relevant date shall be entered in Column 2a of the Master Register.
- 575 (3) For any assignment to which the provisions of Nos. 515, 518, 520, 522, 525, 526, 530 or 531 apply, the relevant date shall be entered in Column 2b of the Master Register.
- 576 (4) However, no date shall be entered in Column 2a or Column 2b in respect of frequency assignments to broadcasting stations in Region 2 in the band 535-1 605 kc/s. The date entered in Column 2c is given for information only.

* Modified by the E.A.R.C. For Space.

• Ref.			- 99 -
HOL/80(29)	MOD	573	§ 26.(1) Frequency Bands :
			$10 = 2850 \text{ kc/s}$ $3155 = 3400 \text{ kc/s}$ $3500 = 3900 \text{ kc/s in Region 1}$ $3500 = 4000 \text{ kc/s in Region 2}$ $3500 = 3950 \text{ kc/s in Region 3}$ $4063 = 4140 \text{ kc/s}$ $4231 = 4438 \text{ kc/s}$ $6200 = 6215 \text{ kc/s}$ $6346 = 6525 \text{ kc/s}$ $8195 = 8284 \cdot 5 \text{ kc/s}$ $8461 = 8815 \text{ kc/s}$ $12 \ 330 = 12 \ 429 \text{ kc/s}$ $12 \ 693 = 13 \ 200 \text{ kc/s}$ $16 \ 460 = 16 \ 573 \text{ kc/s}$ $22 \ 000 = 22 \ 096 \text{ kc/s}$ $22 \ 378 = 22 \ 720 \text{ kc/s}$
I/33(19)	MOD	573	Para. 26 (1) Frequency bands
			10 - 2850 kc/s 3155 - 3400 kc/s 3500 - 3900 kc/s in Region 1 3500 - 4000 kc/s in Region 2 3500 - 3950 kc/s in Region 3 4063 - 4136.5 kc/s 4231 - 4364.5 kc/s 4231 - 4364.5 kc/s 4364.5 - 4438 kc/s 6200 - 6207.5 kc/s 6346 - 6518 kc/s 6518 - 6525 kc/s 8195 - 8276.5 kc/s 8461 - 8735 kc/s 12 330 - 12 417.5 kc/s 12 692 - 13 112.4 kc/s 13 112.4 - 13 200 kc/s 16 460 - 16 558.5 kc/s 16 922 - 17 261.9 kc/s 17 261.9 - 17 360 kc/s 22 000 - 22 096.5 kc/s 22 625.4 - 22 720 kc/s

Ref.

§26(1) Frequency bands :

		· · ·
10 -	-	2850 kc/s
.3155 -	• ·	3400, kc/s
3500 -	-	3900 kc/s in Region l
3500	-	4000 kc/s in Region 2
3500		3950 kc/s in Region 3
4063		<u>4133</u> kc/s
4238	-	4368 kc/s
4368		4438 kc/s
6 3 57	-	6525 kc/s
8195	-	8265 kc/s
8476	-	8745 kc/s
8745		<u>8815</u> kc/s
<u>12 330</u>	-	12 400 kc/s
12 714	-	13 1 30 kc/s
<u>13 130</u>	-	1 <u>3</u> 200 kc/s
16 460	-	<u>16 530</u> kc/s
16 952	-	17 290 kc/s
<u>17 290</u>	-	17_{360} kc/s
22 000		22 070 kc/s
22 400	 .	22 650 kc/s
22 650	-	<u>22 720</u> kc/s
•		

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	. •		
USA	/18	(31 a)).

$ \begin{array}{r} 10\\ 3155\\ 3500\\ 3500\\ 4063\\ 4238\\ 4368\\ 4368\\ 6357\\ 8195\\ 8476\\ 8745\\ 12330\\ 12714\\ 13130\\ 16460\\ \end{array} $		2850 ko/s 3400 kc/s 3900 kc/s in Region 1 4000 kc/s in Region 2 3950 kc/s in Region 3 4133 kc/s 4368 kc/s 4438 kc/s 6525 kc/s 8265 kc/s 8745 kc/s 8815 kc/s 12400 kc/s 13130 kc/s 13200 kc/s 16530 kc/s
6357		6525 kc/s
	_	
a subsection of the second		
the second s	_	
•		
16952		$\frac{10000}{17290}$ kc/s
	-	
<u>17290</u>		<u>17360</u> kc/s
22000		22070 kc/s
22400	-	22650 kc/s
22650	-	<u>22720</u> ko/s

Proposals relating to Article 9 -· س

103

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N° 577 - 586 .

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ART 9

- 577 § 27. (1) Frequency Bands allocated exclusively to the Maritime Mobile Service between 4 000 and 23 000 kc/s for Radiotelephone Coast Stations.
- 578 (2) If the finding is favourable with respect to No. 542, the date of 3 December, 1951 shall be entered in Column 2a in the case of an allotment in Section I of the Plan; in the case of an allotment in Section II, the date of 4 December, 1951 shall be entered in Column 2b.
- 579 (3) If the provisions of No. 544 are found to be applicable, the date originally entered in Column 2a or 2b, as the case may be, shall be retained.
- 580 (4) For all other cases referred to in No. 541, the relevant date shall be entered in Column 2b (see Nos. 510, 514, 515, 518, 533 and 534).
- 581 (5) For assignments to stations other than radiotelephone coast stations, the relevant date shall be entered in Column 2b (see Nos. 525, 526, 530 and 531).
- 582 § 28. (1) Frequency Bands allocated exclusively to the Maritime Mobile Service between 4 000 and 23 000 kc/s for Radiotelephone Ship Stations.
- 583 (2) If the finding is favourable with respect to No. 548, the date of 3 December, 1951 shall be entered in Column 2a if the associated allotment appears in Section I of the Plan; if it appears in Section II, the date of 4 December, 1951 shall be entered in Column 2b.
- 584 (3) If the provisions of 550 are found to be applicable, the date originally entered in Column 2a or 2b, as the case may be, shall be retained.
- 585 (4) In all other cases covered by No. 547, the date of receipt of the notice by the Board shall be entered in Column 2b.
- 586 (5) For assignments other than assignments of frequencies for reception by radiotelephone coast stations, the relevant date shall be entered in Column 2b (see Nos. 525, 526, 530 and 531).

<u>Ref</u>

HOL/80(29) SUP 577, 578, 579, 580, 581, 582, 583, 584, 585 and 586.

I/33(19) SUP 577

through

SUP 586

J/86(51) SUP 577 - 586

USA/18(32) SUP 577, 578, 579, 580, 581, 582, 583, 584, 585, 586

F/10(66)

No. 581 - Replace the present text by the following

(5) For assignments to radiotelephone coast stations which do not meet the conditions mentioned in No. 541 and assignments to stations other than radiotelephone coast stations, the relevant date shall be entered in column 2 b) (see Nos. 525, 526, 530 and 531).

Reasons :

To provide for stations not in accordance with No. 541 the same status as that provided by No. 581 of the Radio Regulations (1959) for stations not in accordance with the Regulations.

F/10(67)

No. 586 - Replace the present text by the following

(5) For assignments other than assignments of frequencies for reception meeting the conditions specified in No. 547, the relevant date shall be entered in Column 2 b) (see Nos. 525, 526, 530 and 531).

Reasons :

The reasons given under No. 581 are valid for the frequencies for reception by coast stations.

- 107 -Proposals relating to Article 9 N° 635

Section VIII. Miscellaneous Provisions

NOD

Aeronautical Conference

635 § 47. The provisions of Sections V, VI (excepting No. 619) and VII of this Article shall not be applied to frequency assignments in conformity with the Allotment Plans contained in Appendices 25, and 26, to these Regulations.

and 27

Ref.

HOL/80(29) MOD 635 **S** 47. The provisions of Sections V, VI (excepting No. 619) and VII of this Article shall not be applied to frequency assignments in conformity with the Allotment Plans contained in Appendices 25, 26 and 27 to these Regulations.

I/33(19) MOD 635*) Para. 47. The provisions of Sections V, VI (excepting No. 619) and VII of this Article shall not be applied to frequency assignments in conformity with the Allotment Plans contained in Appendices 26 and 27 to these Regulations.

*) As amended by the E.A.R.C. Aeronautical (R) (Geneva, 1966).

J/86(52)	MOD	635	\$47 The provisions of Sections V, VI (excepting No. 619) and VII of this Article shall not be applied to frequency assignments in conformity with the Allotment Plans contained in Appendices 25, 26 and 27 to these Regulations.
			Regulations.

USA/18(32a) MOD 635*) Paragraph 47. The provisions of Sections V, VI (excepting No. 619) and VII of this Article shall not be applied to frequency assignments in conformity with the Allotment Plans contained in Appendices 25 26 and 27 to these Regulations.

Reasons :

Consequential to the abrogation of Appendix 25. Since the special provisions of Article 9 applicable to the maritime mobile coast telephone allotment plan would no longer be relevant, they should be replaced by the basic provisions of the Article governing technical examination and the assignment of 2a or 2b dates for the engineered portions of the International Frequency List.

*) As amended by the E.A.R.C. Aeronautical Mobile (R) (1966)

Proposals relating to

Article 12

Technical Characteristics of Equipment

and Emissions

N° 677

677 § 8. The use of class B emissions is forbidden in all stations, except that such emissions by existing stations may be allowed, for distress calls and distress traffic only, until 1 January 1966.

- 112 -

F/111(131)	MOD	677	Delete second	sentence of	this	number.
	Reasons:					
		Text ou	t of date.			

G/63(74) MOD 677 88. The use of Class B emissions is forbidden in all stations.

Proposals relating to

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Article 19

Identification of Stations

· ·

N° 736, 737 and 750

Section I. General Provisions

- 735 § 1. (1) Transmissions without identification or with false identification are prohibited.¹
- 736 (2) However, the requirements of identification need not apply to survival craft stations when transmitting distress signals automatically.
- 737 § 2. A station shall be identified either by a call sign or other recognized means of identification. Such recognized means of identification may be one or more of the following necessary for complete identification : name of station, location of station, operating agency, official registration mark, flight identification number, characteristic signal, characteristic of emission or other clearly distinguishing features readily recognized internationally.
- * MOD 735.1

¹ In the present state of the technique, it is recognized nevertheless that the transmission of identifying signals for certain radio systems (e.g. radiodetermination, radio relay systems and space systems) is not always possible.

750 § 11. (1) Each country shall choose the call signs of its stations from the international series allocated to it, and shall, in accordance with Article 20, notify to the Secretary General the call signs which it has assigned together with the information which is to appear in Lists I to VI inclusive. These notifications do not include call signs assigned to amateur and experimental stations.

* Modified by the E.A.R.C. For Space.

Ref.

G/60(19)

(2) However, the requirements of identification need MOD 736 not apply to :

> - survival craft stations when transmitting distress signals automatically, or

- emergency position-indicating radio-beacons

Reasons :

MOD

737

750

To cover the introduction of emergency position-indicating radio-beacons.

G/91(48)

§ 2. A station shall be identified either by a call sign or other recognized means of identification. Such recognized means of identification may be one or more of the following necessary for complete identification: name of station, location of station, operating agency, official registration mark, flight identification number, ship's selective call number, characteristic signal, characteristic of emission or other clearly distinguishing features readily recognized internationally.

Reasons :

MOD

To provide for the use of sclective call numbers in the maritime service.

G/91(48)

§ 11. (1) Each country shall choose the call signs and the selective call number of its stations from the international series allocated to it, and shall, in accordance with Article 20, notify to the Secretary General the call signs which it has assigned together with the information which is to appear in Lists I to VI inclusive. These notifications do not include call signs assigned to amateur and experimental stations.

Reasons :

To provide for the inclusion of selective call numbers of stations in the maritime mobile service.

Proposals relating to

Article 19

N° 760

Section III. Formation of Call Signs

- 1

756	in the case	he twenty-six letters of the alphabet, as well as digits s specified below, may be used to form call signs. iters are excluded.
757	(2) He call signs :	owever, the following combinations shall not be used as
758	<i>a</i>)	combinations which might be confused with distress signals or with other signals of a similar nature;
759	b)	combinations reserved for the abbreviations to be used in the radiocommunication services (see Appendix 13);
760	c)	those four-letter combinations commencing with the letter A which are used for the geographical portion of the International Code of Signals, in cases where confusion is likely to arise;
761	(d)	for amateur stations, combinations commencing with a

d) for amateur stations, combinations commencing with a digit when the second character is the letter O or the letter I.

Ref.		
HOL/74(17)	SUP	

Reasons :

760

In the revised International Code of Signals the geographical section is deleted.

J/88(56) SUP 760

Reasons :

Because the geographical portion was deleted in the Revised International Code of Signals.

USA/21(40) SUP 760

Section III - Formation of call signs

G/60(20) Insert sub-heading :

ADD <u>Emergency position-indicating radio-beacons</u>

ADD 768A - the morse letter B and/or the call-sign of the ship to which the beacon belongs.

Reasons :

To provide for the use of emergency position-indicating radio-beacons.

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Proposals relating to

Article 19

N^o 776 and

New Section IV A :

Selective call numbers in the Maritime mobile service

Section IV. Identification of Stations using Radiotclephony

- 774 § 22. Stations using radiotelephony shall be identified as indicated in Nos. 775 to 783.
- 775 § 23. (1) Coast stations

- a call sign (see Nos. 763 and 764); or

- the geographical name of the place as it appears in the List of Coast Stations, followed preferably by the word RADIO or by any other appropriate indication.

(2) Ship stations

776

- a call sign (see Nos. 765 and 766); or

- the official name of the ship preceded, if necessary, by the name of the owner on condition that there is no possible confusion with distress, urgency and safety signals. Ref.

G/91(48) MOD 776

(2) Ship stations

- a call sign (see Nos. 765 and 766); or

- the official name of the ship preceded, if necessary, by the name of the owner on condition that there is no possible confusion with distress, urgency and safety signals; or

- the selective call numbers

Reasons :

To provide for the selective call numbers.

G/60(20)

ADD 777A (4) Emergency position-indicating radio-beacons

- the morse letter B and/or the call sign of the ship to which the beacon belongs.

Reasons :

777B

To provide for the use of emergency position-indicating radio-beacons.

G/78(90)

(5) Ship's On-board Portable Stations

- the official name of the ship followed by a single letter or appropriate indicator.

Reasons :

ADD

To provide for the use of portable "on-board" equipment. The name of the ship followed by a single letter (with the use of the analogy given in Appendix 16 ALFA, BRAVO, CHARLIE, etc.) would avoid confusion with simultaneous operations on any other adjacent ship. Ref.

G/91 (49)	ADD		New Section IVA.
	AD D		Heading :
	. •		Selective call numbers in the
			maritime mobile service
	ADD		Sub-heading :
			Formation of ships'selective call numbers
	• • • • • •		and coast station identification numbers
	ADD	783a	§ 25 (bis) (1) The ten digits from 0 to 9 inclusive shall be used to form selective call numbers.
	ADD	78 3 8	(2) However, combinations of numbers commencing with the digits OO (zero, zero) shall not be used when forming the identification numbers for coast stations.
	ADD	78 3 C	(3) Ships' selective call numbers and coast station identification numbers in the international series are formed as indicated in Nos. 783D, 783E and 783F.
	ADD	783D	(4) Coast station identification numbers
			- four figures (see No. 2)
	ADD	783E	(5) Ship stations selective call numbers
		. •**	- five figures
	ADD	783F	(6) Predetermined groups of ship stations
			- five figures, as listed in No. 783L
	ADD		Sub-heading :
			Allocation of international series and
			assignment of ships' selective call
			numbers and coast station identification
			numbers
	ADD	7830	§ 25 (ter) (1) Coast stations open to the international public correspondence service shall be given selective call numbers from the international series allocated to each country as indicated in No. 783H.

- 126 -

Ref.	

G/91(49) AI (cont.) AD	DD	783H	stations of identific Identification number	of allocation to coast ation numbers. Allocated to (country)
AD	D		number	
AD	D		To be complete	
AD	D			d by Conference
		7831	international public of	p stations open to the correspondence service lective call numbers as J, 783K and 783L.
AD	D	783J		le of allocation to ship call numbers for use in
			Selective call number	Allocated to
			To be completed	by Conference
AD	<u>a</u>	78 3 K		le of allocation to ctive call numbers for
			Selective call number	Allocated to
			To be completed	by Conference
AD	D	783L	(4) Tabl selective call numbers groups of ships.	le of allocation of s for predetermined
			Selective call number	Allocated to
			To be completed	by Conference
Re	,		•	

To provide for the use of selective calling devices.

Ref.

Article 19

Add the following Section VI :

Section VI - Selective call numbers in the mobile service

F/109(92)

ADD

S1. When stations of the maritime mobile service use selective calling devices, their call numbers shall be assigned by the responsible administrations in accordance with the provisions below.

A - Ship stations

DD 788B

§ 2. Numbers assigned to groups of ships : these numbers shall have 5 digits,

- consisting either of the same digit repeated 5 times;

- or of 2 different digits repeated alternately.

They shall be allocated as follows :

Number series	Allocated to :		
	(name of country)		

§ 3. (1) Numbers assigned to individual ship stations : except for the numbers mentioned in No. 788B, all these numbers shall consist of

ADD 788C

ADD 788D

(2) When the ship's itinerary and calling frequencies would indicate that it is not essential to assign a number exclusively, the number shall be chosen from the following list; if confusion is possible with the ships of other administrations using the same calling frequencies, the assignment shall be subject to coordination with these administrations.

Series of numbers which may be assigned on a shared basis

ADD

788E (3

5 digits.

(3) When application of No. 788D proves impossible in practice, a number shall be assigned to the ship exclusively on the basis of the following allocation table :

Number series	Allocated to :
	(name of country)

788**a**

ADD

Ref.

F/109(92) ADD 788F (cont.) B - Coast stations

§ 4. Numbers assigned for identification purposes to calling coast stations : except for numbers in which the thousands digit and the hundreds digit are zero, all these numbers shall consist of 4 digits. They shall be chosen on the basis of the following allocation table :

Number series	Allocated to :
	(name of country)

ADD

788G

§ 5. Each administration shall notify to the Secretary-General :

- the call numbers assigned to ship stations which can pick up the selective call signals transmitted by coast stations of another nationality;
- the identification numbers assigned to coast stations.

In all cases, the frequencies used shall be specified.

Reasons :

To include in the Regulations provisions on selective. calling devices as defined in draft Recommendation D.a prepared by C.C.I.R. Study Group XIII.

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Article 20

Service Documents

N° 793, 805, 815, 824 and 825

ARTICLE 20

Service Documents

789	§ 1. Secretary	The following documents shall be published by the General.
790	(I)	List 1. The International Frequency List.
		This list shall contain :
791		a) particulars of frequency assignments recorded in the Master International Frequency Register. These par- ticulars shall include the data enumerated in Appen- dix 9;
792		 b) the frequencies (e.g. 500 kc/s or 2 182 kc/s) prescribed by these Regulations for common use by certain services, including frequencies specified in Appendices 15, 17 and 18;
793	c) 1	the allotments in the Allotment Plans included in Appendices 25, 26 and 27.

805

(IV) List IV. List of Coast Stations.

There are annexed to this list a table and a chart showing the zones and hours of service of ships of the second category (see Appendix 12) and a table of inland telegraph rates, limitrophic rates, etc.

815 § 2. (1) The Secretary-General shall publish the amendments to be made in the documents listed in Nos. 790 to 814 inclusive. Once a month administrations shall inform him, in the form shown for the lists themselves in Appendix 9, of the additions, modifications or deletions to be made in Lists IV, V and VI using for this purpose the appropriate symbols shown in Appendix 10. Furthermore, in order to make the necessary additions, modifications and deletions to Lists I, II, III and VIIIA, he shall use the data provided by the International Frequency Registration Board, obtained from the information received in application of the provisions of Articles 9, 9A and 10. He shall make the requisite amendments to List VII by using the data he has received for Lists I to VI and VIIIA.

- 824 § 6. The List of Coast Stations (List IV) shall be republished every three years and kept up to date by recapitulative supplements issued every six months.
- 825 § 7. The List of Ship Stations (List V) shall be republished each year without supplements.

* Modified by the E.A.R.C. Aeronautical.

** Modified by the E.A.R.C. For Space.

- 132 -

MOD

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(MOD)

Ref.			~ 1)) -
J/86(53)	MOD	793	c) the allotments in the Allotment Plans included in Appendices 25, 26 and 27.
CAN/108(26)	MOD	805 (IV)	List IV. List of Coast Stations
			This list shall contain particulars of the coast stations operating in the Maritime Mobile Service, the frequencies of which appear in List I. There are annexed to this List a table and a chart showing the zones and hours of service of ships of the second category (see Appendix 12) and a table of inland telegraph rates, limitrophic rates, etc.
CAN/108(27)	MOD Reasons:	815	§2. (1) The Secretary-General shall publish the amendments to be made in the documents listed in Nos. 790 and 814 inclusive. Once a month administrations shall inform him, in the form shown for the lists them- selves in Appendix 9, of the additions, modifications or deletions to be made in Lists IV, V and VI using for this purpose the appropriate symbols shown in Appendix 10. Furthermore, in order to make the necessary additions, modifications and deletions to Lists I, II, III and VIIIA, he shall use the data provided by the International Frequency Registration Board, obtained from the information received in application of the provisions of Articles 9, 9A and 10. He shall make the requisite amendments to Lists I to VI and VIIIA. Lists IV and VI shall be coordinated with the information appearing in List I. The Secretary-General shall refer any discrepancies to the adminis- tration concerned.

- 133 -

Reasons:

To outline the contents of the List of Coast stations thereby making List IV consistent with the other Lists as mentioned in Article 20 and to provide for coordination, by Union Headquarters, between the International Frequency List, the List of Coast Stations and the List of Radiodetermination and Special Service Stations. F/109(93)

USA/28 (63)	ADD	<u>806A</u>	(V)bis List V bis. Manual for use by the maritime mobile service
			This Manual shall contain those Radio Regu- lations, Additional Radio Regulations, and portions of the Convention necessary and useful to stations of the maritime mobile service.
			List VII bis - List of selective call numbers used in the maritime mobile service

This list comprises two parts :

Part 1 - List of call numbers assigned to ships.

> The list shall be confined to ship. stations which can receive the selective call signals transmitted by coast stations of another nationality on one or more of the international frequencies provided for this purpose in the Radio Regulations.

Part 2 - List of identification numbers assigned to coast stations.

Reasons :

824

ADD

- 810A

To include in the Regulations provisions on selective calling devices as defined in draft Recommendation D.a prepared by C.C.I.R. Study Group XIII.

F/111(132)

Replace first sentence of this number by the following :

The List of Coast Stations (List IV) shall be republished every two years.

Reasons:

The List of Coast Stations is in constant use by ship stations and it gets quickly worn out. The number of supplements issued to bring it up to date does not make reference any easier. If it were re-issued more often (e.g. every two years), these drawbacks would be largely eliminated. The extra cost would be partly offset by savings on the recapitulative supplements now issued every six months.

MOD

<u>Ref.</u>

F/111(133)

MOD 825 Replace the present text by the following :

The List of Ship Stations (List V) shall be republished each year. It shall be kept up to date by means of a half-yearly supplement.

Reasons:

One half-yearly supplement would be enough to keep the List up to date.

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Proposals relating to

Article 23

Operators' Certificates for Ship and Aircraft Stations

№° 848 - 866

Section II. Classes and Categories of Certificates

- **859** § 5. (1) There are two classes of certificates, as well as a special certificate, for radiotelegraph operators.¹
- 860 (2) There are two categories of radiotelephone operators' certificates, general and restricted.¹
- **861** § 6 (1) The holder of a first or second class radiotelegraph operator's certificate may carry out the service of any ship or aircraft radiotelephone station.
 - (2) The holder of a radiotelephone operator's general certificate may carry out the radiotelephone service of any ship or aircraft station.

863

862

(3) The holder of a radiotelephone operator's restricted certificate may carry out the radiotelephone service of any ship or aircraft station, when working on frequencies of the maritime mobile service, provided that:

- the carrier power of the transmitter does not exceed 50 watts, or
 - the operation of the transmitter requires only the use of simple external switching devices, excluding all manual adjustment of frequency determining elements, with the stability of the frequencies maintained by the transmitter itself within the limits of tolerance specified by Appendix 3, and the carrier power of the transmitter does not exceed 250 watts.

(4) Nevertheless, the holder of a radiotelephone operator's restricted certificate may carry out the radiotelephone service of any aircraft station operating on frequencies allocated exclusively to the aeronautical mobile service, provided that :

— the operation of the transmitter requires only the use of simple external switching devices, excluding all manual adjustment of frequency determining elements, and that the stability of the frequencies is maintained by the transmitter itself within the limits of tolerance specified by Appendix 3.

(5) The radiotelegraph service of ships for which a radiotelegraph installation is not made compulsory by international agreements, as well as the radiotelephone service of ship stations and aircraft stations for which only a restricted radiotelephone operator's certificate is required, may be carried out by an operator holding a radiotelegraph operator's special certificate.

866 § 7. Exceptionally, the second class radiotelegraph operator's certificate as well as the radiotelegraph operator's special certificate may be limited exclusively to the radiotelegraph service. In such cases the certificate shall be suitably endorsed.

859.1 ¹ As regards the employment of operators holding the different certificates, see Article 24.

865

864

	. ·		- 139 -
Ref.		•	Article 23
			Section I
G/68 (100)	NOC	848-858	
			Section II
			Insert sub-title :
	ADD		A - Aircraft Stations
	<u>Reasons</u> :	₽	
	the prope	To segree psed 866A-8	gate maritime and aeronautical requirements, arising from 366H and 888A-888J.
G/68 (84)	NOC	859-860	
	MOD	861	86. (1) The holder of a first or second class radiotelegraph operator's certificate may carry out the service of any aircraft radiotelephone station.
	MOD	862	(2) The holder of a radiotelephone operator's general certificate may carry out the radiotelephone service of any aircraft station.
	Reasons	:	
	· ·	Consequer	at on segregation of maritime and aeronautical requirements.
G/76(27)	MOD	863	(3) The holder of a radiotelephone operator's restricted certificate may carry out the radiotelephone service of any ship or aircraft station, when working on frequencies of the maritime mobile service, provided that :
			- the operation of the transmitter
			requires only the use of simple external controls, and excludes all manual adjustments of frequency determining elements, with the
			stability of the frequencies main- tained by the transmitter itself within the limits of tolerance
			specified by Appendix 3 and the power of the transmitter does not exceed the following :
			250 watts (Pc) for emission A3
			1000 watts (Pp) for emissions A3A, A3H and A3J.
	Reasons :		

To take account of conversion to single sideband operation, and to minimize the risk of harmful interference at long range in view of the increasing use of HF for radiotelephony.

-	140	-
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G/68(84) NOC 864 (cont.) MOD 865

(5) The radiotelephone service of aircraft stations for which only a restricted radiotelephone operator's certificate is required, may be carried out by an operator holding a radiotelegraph operator's special certificate.

Reasons :

Consequent on the segregation of maritime and aeronautical requirements.

NOC	. •	866
NOC		859.1

861 86

AUS/54(5)

Ref.

(1) The holder of a first or second class radiotelegraph operator's certificate may carry out the <u>radiotelegraph or radiotelephone</u> service of any ship or aircraft **radietelephone** station.

Reasons :

MOD

To clarify that the holder of a first or second class radiotelegraph operator's certificate is not debarred from carrying out the service of radiotelegraph stations.

F/8(13) Article 23 - Section II

No. 863 Replace (at the beginning) :

- the carrier power of the transmitter does not exceed 50 watts:

by

- the peak envelope power of the transmitter does not exceed 200 watts:

Replace (near the end) :

- the carrier power of the transmitter does not exceed 250 watts.
 - . by
- the peak envelope power of the transmitter does not exceed 1 kilowatt.

Add the following footnote :

(This applies to the French text only).

Reasons :

To replace the magnitudes of the carrier power of DSB transmitters by the corresponding magnitudes of the peak envelope power of SSB transmitters. Ref.

J/84(6) MOD

(3) The holder of a radiotelephone operator's restricted certificate may carry out the radiotelephone service of any ship or aircraft station, when working on frequencies of the maritime mobile service, provided that :

- the earrier peak envelope power of the transmitter does not exceed 50 200 watts, or
- the operation of the transmitter requires only the use of simple external switching devices, excluding all manual adjustment of frequency determining elements, with the stability of the frequencies maintained by the transmitter itself within the limits of tolerance specified by Appendix 3, and the earrier peak envelope power of the transmitter. does not exceed 250 watts 1000 watts.

Reasons :

863

Consequence of conversion to SSB system; it is desirable to indicate the value of carrier power of a DSB transmitter by that of peak envelope power of a SSB transmitter in accord therewith.

USA/29 (66) MOD 863

(3) The holder of a radiotelephone operator's restricted certificate may carry out the radiotelephone service of any ship or aircraft station, when working on freugencies of the maritime mobile service, provided that:

- the earrier power of the transmitter does not exceed 50-watts the following:

50 watts (P_c) for emission A3,

200 watts (P_p) for emissions A3A, A3H and A3J; or

- the operation of the transmitter requires only the use of simple external switching devices, excluding all manual adjustment of frequency determining elements with the stability of the frequencies maintained by the transmitter itself within the limits of tolerance specified by Appendix 3, and the earrier power of the transmitter does not exceed 250-watts the following:

250 watts (Pc) for emission A3,

1000 watts (Pp) for emissions A3A, A3H and A3J.

USA/29(66) Reasons:

(cont.)

To provide in the Radio Regulations for equal use of double sideband and single sideband emissions under the restricted radiotelephone operator's certificate, and to bring more closely into accord the provisions of Nos. 863 and 903 with those of Appendix 27.

Background:

The revised Radio Regulations should not impose upon the licensee of aircraft or ship stations need for a plurality of radio operator certificates, arising out of a situation where, in radiotelephone operation, the radiated power of the different SSB modes in a single installation is both above and below the power level applicable to the restricted radiotelephone operator's certificate. Thus, the power level selected and included in the Radio Regulations should be above the transmitter power level routinely encountered in the maritime mobile service.

The relationships between the peak envelope power, the mean power and the carrier power of a radio transmitter have been studied in depth by the C.C.I.R. The most recent result of these studies is contained in C.C.I.R. Oslo, 1966 (Document I/1017).

Customarily, the output power rating of AM transmitters has been specified in terms of "carrier" power -the average output under conditions of no modulation. However, this method of rating is not conveniently applicable to single sideband transmitters where reduced carrier power is employed. Single sideband transmitters are usually rated in terms of "Peak Envelope Power" which is a term defined in No. 95 of the Radio Regulations.

When searching for some criterion of equivalence with respect to DSB and SSB emissions, we first must decide whether we are concerned with (a) equivalent interferring effects of the emissions, (b) equivalent communication ranges or (c) equivalent circuit capacities. These each depend to some extent upon the power of the emission, but also upon other factors, so that there is no simple equivalence which satisfies all of these aspects simultaneously. That is, transmitter powers which may provide equivalent communication ranges as between SSB and DSB do not necessarily provide equivalent interference effects or equivalent circuit capacities.

It appears that, from the standpoint of I.T.U., the matter of equivalence should be determined by the interference potential of the emission. The new SSB facilities should cause no more interference to other services, either on the same channel or on adjacent frequencies, than do the existing DSB facilities.

Although there is no rigid relationship between power and interference potential, experience indicates that the most meaningful index of interference potential is provided by the mean power of the emission. It would seem then, that if Nos. 863 and 903 are to be amended to include a comparable power level (to the 100 and 250 watts now appearing therein) for single sideband emission, this can best be done on the basis of mean power. Single sideband transmitters, however, are usually rated in terms of peak envelope power (P_p). Although certain relationships can be derived between peak and mean powers, these relationships do not give us fully satisfactory answers to the two questions set forth above. <u>Ref</u>.

USA/29(66)

(cont.)

The power level of 250 watts carrier power (P_c) appearing in No. 863 was selected on the basis of airborne equipment then available and planned future equipment which would be available aboard scheduled air transport aircraft, which would have a capability of 1000 watts peak envelope power. Aviation interests have developed airborne SSB equipment specifications which call for a minimum power output with suppressed carrier of 400 watts (P_p) and a maximum power output with suppressed carrier of 650 watts (P_p) . Nonetheless, earlier models of airborne SSB equipment continue in use with 1000 watts (P_p) .

National regulations within the United States provide for the licensing of ship and aircraft SSB stations on the basis of peak envelope power.

<u>Ref</u> .		·- 144 -
G/68 (84) ADD		B - Ship Stations
ADD	866 A	8 7 bis. (1) There are two categories of radio- communication operator's certificate, general and special. ¹
DD	866B	(2) First and second class radiotelegraph operators' certificates issued prior to the date of implementation of these Regulations for some later date to be specified 7 shall, for the purpose of these Regulations, continue to be accepted for the conduct of the radiocommunication service. ¹
ŒA	8660	(3) There are two categories of radio- telephone operators' certificates, general and restricted. ¹
ADD	866D	§ 7 ter. (1) The holder of a radiocommunication operator's general certificate may, subject to the provisions of Nos. $907-909$, carry out the service of any ship radiotelegraph or radiotelephone station.
ADD	866E	(2) The holder of a radiotelephone operator's general certificate may carry out the radiotelephone service of any ship station.
ADD	866F	(3) The holder of a radiotelephone operator's restricted certificate may carry out the radiotelephone service of any ship station, provided that :
		- the operation of the transmitter requires only the use of simple external controls, and excludes all manual adjustment of frequency determining elements, with the stability of the frequencies maintained by the transmitter itself within the limits of tolerance specified by Appendix 3 and the power of the transmitter does not exceed the following :
·		250 watts (Pc) for emission A3 1000 watts (Pp) for emissions A3, A3H and A3J.
ADD	866G	(4) The radiotelegraph service of ships for which a radiotelegraph installation is not made compulsory by international agreements, as well as the radiotelephone service of ship stations for which only a radiotelephone operator's restricted certificate is required, may be carried out by an operator holding a radiocommunication operator's special certificate.

1 ¹ As regards the employment of operators holding the different certificates, see Article 24.

8661.1 ADD

<u>Ref.</u>

G/68(84) ADD 866H (cont.)

Exceptionally, the radiocommunication operator's general or special certificates may be <u>limited exclusively to the radiotelegraph service</u>. In such cases the certificate shall be suitably endorsed.

Reasons :

Consequential upon the segregation of aeronautical and maritime requirements, to enable the latter to be amended to include the service of radiotelegraph stations and use of the radiocommunication operator's general certificate referred to in 888A-888J.

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Proposals relating to

Article 23

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Section III. Conditions for the Issue of Operators' Certificates

N° 867 - 896

Section III. Conditions for the Issue of Operators' Certificates

870 (2) Administrations should take whatever steps they consider necessary to ensure the continued proficiency of operators after prolonged absences from operational duties.

A. First Class Radiotelegraph Operator's Certificate

871 § 10. The first class certificate is issued to candidates who have given proof of the technical and professional knowledge and qualifications enumerated below :

B. Second Class Radiotelegraph Operator's Certificate

880 § 11. The second class certificate is issued to candidates who have given proof of the technical and professional knowledge and qualifications enumerated below :

D. Radiotelephone Operator's Certificate

894 § 13. The general radiotelephone operator's certificate is issued to candidates who have given proof of the knowledge and professional qualifications enumerated below (see also No. 861):

895	a) A knowledge of the elementary principles of radio- telephony.
896	b) Detailed knowledge of the practical operation and adjustment of radiotelephone apparatus.
897	c) Ability to send correctly and to receive correctly by telephone.
898	d) Detailed knowledge of the Regulations applying to radiotelephone communications and specifically of that part of those Regulations relating to the safety of life.

<u>Ref</u> .			
G/68 (8	6)		Section III
	NOC	867-870	
	MOD		A - First Class Radiotelegraph Operator's Certificate - Aeronautical
	<u>Reasons</u> :	Consequer	tial upon the proposed 888A-888J.
	ŃOC	8 71 -8 7 9	
	MOD		B - <u>Second Class Radiotelegraph Operator's Certificate</u> - <u>Aeronautical</u>
	<u>Reasons</u> :		
		As above.	
	NOC	880-888	
	ADD		New section :
			BA - Radiocommunication Operator's General Certificate- Maritime
	ADD	888A	S11 bis. (1) The radiocommunication general certificate is issued to candidates who have given proof of the technical and professional knowledge and qualifications enumerated below :
	ADD	888B	(a) Knowledge of the principles of electricity, the theory of radio and marine aerial systems, suffi- cient to meet the requirements of Nos. 888C, 888D and 888E.
	ADD	888C	(b) Theoretical knowledge of marine radio- telegraph and radiotelephone transmitters and receivers; automatic alarm devices; radio equipment for lifeboats and other survival craft; direction-finding equipment; together with all auxiliary items, including power supply auxiliaries (such as motors, alternators, generators, inverters, rectifiers and accumulators) with particular reference to maintaining the equipment in service.
	ADD	888D	(c) Practical knowledge of the operation, adjustment and maintenance of the apparatus mentioned in 888C; including the taking of direction-finding bearings and the calibration of radio direction-finding apparatus.
	ADD	888E	(d) Practical knowledge necessary for the location and remedying (with the means available on board), of faults which may occur during a voyage, in the apparatus mentioned in No. 888C.

- 149 -

<u>Ref</u> .			
G/68 (86) (cont.)	ADD	888F	(e) Ability to send correctly by hand and to receive correctly by ear, in the Morse code, code groups (mixed letters, figures and punctuation marks), at a speed of sixteen groups a minute, and a plain language text at the speed of twenty words a minute. Each code group shall comprise five characters, each figure or punctuation mark counting as two characters. The average word of the text in plain language shall contain five characters. The duration of each test of sending and receiving shall be, as a rule, five minutes.
	ADD	888G	(f) Ability to send correctly and to receive correctly by telephone.
	DCA	888H	(g) Knowledge of the Regulations applying to radiocommunications, knowledge of the documents relating to charges for radiocommunications, knowledge of the provisions of the Convention for the Safety of Life at Sea which relate to radio.
	ADD	888I	(h) A sufficient knowledge of world geography, especially the principal shipping and air routes and the most important telecommunication routes.
	ADD	888J	(i) Knowledge of one of the working languages of the Union. Candidates should be able to express themselves satisfactorily in that language, both orally and in writing. Each administration shall decide for itself the language or languages required.
	Reasons :		

- 150 -

To replace the present maritime first and second class radiotelegraph operators' certificates by one category of certificate more closely related to present-day needs.

G/68 (%) NOC 889-893

MOD	894	\$ 13. The general radiotelephone operator's
		certificate is issued to candidates who have given
		proof of the knowledge and professional qualifications
		enumerated below (see also Nos, 861 and 866E) :

Reasons :

Consequential upon 866E.

.

<u>Ref</u> .			
G/68 (\$6)	NOC	895	
(cont.)	MOD		(b) For aircraft radiotelephone stations, detailed knowledge of the practical operation and adjustment of radiotelephone apparatus.

Reasons :

	Consequential upon 896A.			
ADD	896A(b) For ship radiotelephone stations a bis practical knowledge of the operation and adjustment of radiotelephone apparatus and ability to remedy minor faults which may occur during a voyage.			

Reasons :

To meet present-day needs and in the interests of safety of life at sea and efficient service.

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Article 23 Nº 903 . .

Proposals relating to

(2) For ship radiotelephone stations where the carrier power of the transmitter does not exceed 100 watts and for aircraft radiotelephone stations operating on frequencies allocated exclusively to the aeronautical mobile service, each administration may itself fix the conditions for obtaining a restricted radiotelephone operator's certificate, provided that the operation of the transmitter requires only the use of simple external switching devices, excluding all manual adjustment of frequency determining elements, and that the stability of the frequencies is maintained by the transmitter itself within the limits of tolerance specified in Appendix 3. However, in fixing the conditions, administrations shall ensure that the operator has an adequate knowledge of radiotelephone operation and procedure particularly as far as distress, urgency and safety are concerned. This in no way contravenes the provisions of No. 906.

(3) Administrations in Region 1 do not issue certificates under No. 903.

903

904

G/68 (86)	NOC	897-904
C/76(28)	MOD	903

(2) For ship radiotelephone stations where the carrier power of the transmitter does not exceed 400 watts (Pp) and for aircraft radiotelephone stations operating on frequencies allocated exclusively to the aeronautical mobile service, each administration may itself fix the conditions for obtaining a restricted radiotelephone operator's certificate, provided that the operation of the transmitter requires only the use of simple external switching devices. excluding all manual adjustment of frequency determining elements, and that the stability of the frequencies is maintained by the transmitter itself within the limits of tolerance specified in Appendix 3. However, in fixing the conditions, administrations shall ensure that the operator has an adequate knowledge of radiotelephone operation and procedure particularly as far as distress, urgency and safety are concerned. This in no way contravenes the provisions of No. 906.

Reasons :

To take account of conversion to single sideband operation.

G/68**(86)**

8 14 bis. Each administration shall ensure that a radiotelephone operator controlling automatic devices installed in a ship has adequate knowledge of the practical operation and adjustment of the apparatus.

Reasons :

ADD

To ensure effective and efficient operation and to avoid interference with other services.

NOC 905-906

904A

F/8(14)

No. 903 Replace the present text by the following :

(2) For ship radiotelephone stations where the peak envelope power of the transmitter does not exceed 400 watts and for aircraft radiotelephone stations operating on frequencies allocated exclusively to the aeronautical mobile service.... (the rest unchanged).

ADD Add the following footnote : (French text only)

Reasons :

See Proposal No. F/8(13) relating to No. 863.

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The relationships between the peak envelope power, the mean power and the carrier power of a radio transmitter have been studied in depth by the C.C.I.R. The most recent result of these studies is contained in C.C.I.R. Oslo, 1966 (Document I/1017).

Customarily, the output power rating of AM transmitters has been specified in terms of "carrier" power -the average output under conditions of no modulation. However, this method of rating is not conveniently applicable to single sideband transmitters where reduced carrier power is employed. Single sideband transmitters are usually rated in terms of "Peak Envelope Power" which is a term defined in No. 95 of the Radio Regulations.

When searching for some criterion of equivalence with respect to DSB and SSB emissions, we first must decide whether we are concerned with (a) equivalent interferring effects of the emissions, (b) equivalent communication ranges or (c) equivalent circuit capacities. These each depend to some extent upon the power of the emission, but also upon other factors, so that there is no simple equivalence which satisfies all of these aspects simultaneously. That is, transmitter powers which may provide equivalent communication ranges as between SSB and DSB do not necessarily provide equivalent interference effects or equivalent circuit capacities.

It appears that, from the standpoint of I.T.U., the matter of equivalence should be determined by the interference potential of the emission. The new SSB facilities should cause no more interference to other services, either on the same channel or on adjacent frequencies, than do the existing DSB facilities.

Although there is no rigid relationship between power and interference potential, experience indicates that the most meaningful index of interference potential is provided by the mean power of the emission. It would seem then, that if Nos. 863 and 903 are to be amended to include a comparable power level (to the 100 and 250 watts now appearing therein) for single sideband emission, this can best be done on the basis of mean power. Single sideband transmitters, however, are usually rated in terms of peak envelope power (P_p) . Although certain relationships can be derived between peak and mean powers, these relationships do not give us fully satisfactory answers to the two questions set forth above.

The power level of 250 watts carrier power (P_c) appearing in No. 863 was selected on the basis of airborne equipment then available and planned future equipment which would be available aboard scheduled air transport aircraft, which would have a capability of 1000 watts peak envelope power. Aviation interests have developed airborne SSB equipment specifications which call for a minimum power output with suppressed carrier of 400 watts (P_p) and a maximum power output with suppressed carrier of 650 watts (P_p) . Nonetheless, earlier models of airborne SSB equipment continue in use with 1000 watts (P_p) .

National regulations within the United States provide for the licensing of ship and aircraft SSB stations on the basis of peak envelope power.

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Proposals relating to

Article 23

Section IV. Qualifying Service

N° 907 - 911

Section IV. Qualifying Service

- 907 § 17. (1) An operator holding a first class radiotelegraph certificate is authorized to embark as chief operator of a ship station of the third category (see No. 932).
- **908** (2) Before becoming chief operator of a ship station of the second category (see No. 931), an operator holding a first class radiotelegraph operator's certificate shall have had at least six months' experience as operator on board ship or in a coast station.
- 909 (3) Before becoming chief operator of a ship station of the first category (see No. 930), an operator holding a first class radio-telegraph operator's certificate shall have had at least one year's experience as operator on board ship or in a coast station.
- **910** § 18. (1) An operator holding a second class radiotelegraph operator's certificate is authorized to embark as chief operator of a ship station of the third category (see No. 932).
- 911 (2) Before becoming chief operator of a ship station of the second category (see No. 931), an operator holding a second class radiotelegraph operator's certificate shall have had at least six months' experience as an operator on board ship.

			Section IV
(87)	MOD		Requirements for Chief Operator
	Reason	<u>s</u> :	
		Conseque	ential upon the revision of Nos. 908 and 909.
	MOD	907	§ 17. (1) An operator holding a radiocommunication operator's general certificate or a first or second class radiotelegraph operator's certificate is authorized to embark as chief operator of a ship station of the fourth category (see No. 932).
	COM	908	(2) Before becoming chief operator of a ship station of the second or third category (see Nos. 931 and 931A), an operator shall hold a radiocommunication operator's general certificate or a first or second class radiotelegraph operator's certificate and shall have had at least six months' experience as operator on board ship or in a coast station.
	MOD	909	(3) Before becoming chief operator of a ship station of the first category (see No. 930) an operator shall hold either :
	ADD	909A	(a) a radiocommunication operator's general certificate, and shall have had at least two years' experience as operator on board ship or in a coast station; or
	ADD	909B	(b) a first class radiotelegraph operator's certificate and shall have had at least one year's experience as operator on board ship or in a coast station.
	Reasons		

of a Category 1 ship; consequential upon Nos. 888A-888J, and to provide for additional experience for the holder of a radiocommunication operator's general certificate.

SUP 910

<u>Reasons</u>:

Consequential upon the revision of No. 907.

SUP 911

Reasons :

Consequential upon the revision of No. 908.

ISR/102(1) MOD

(2) Before becoming chief operator of a ship station of the second category (see No. 931), an operator holding a second class radiotelegraph operator's certificate shall have had at least six months' experience as an operator on board ship, or at least three months' experience as an operator in a coast station and at least three months' experience as an operator on board ship.

Reasons :

911

In the case of a first class radiotelegraph operator, experience in a coast station is accepted vis-à-vis experience on board ship (No. 908).

Intensive operating experience is acquired in a coast station and it is believed that such experience should be taken partly into account also in the case of a second class radiotelegraph operator.

Proposals relating to

Article 24

Class and Minimum Number of Operators

for Ship and Aircraft Stations

N° 912 - 920

ARTICLE 24

Class and Minimum Number of Operators for Ship and Aircraft Stations

- **912** § 1. In the public correspondence service, each government shall take the necessary steps to ensure that ship and aircraft stations of its own nationality have personnel adequate to perform efficient service. 913 § 2. The personnel of these stations shall, having regard to the provisions of Article 23, include at least : 914 a) ship stations of the first category : one operator holding a first class radiotelegraph operator's certificate; 915 b) ship stations of the second category: one operator holding a first or second class radiotelegraph operator's certificate : 916 c) ship stations of the third category, except in the case provided for in No. 917: one operator holding a first or a second class radiotelegraph operator's certificate; 917 d) ship stations in which a radiotelegraph installation is provided but not prescribed by international agreements: one operator holding a radiotelegraph operator's special certificate or a first or second class radiotelegraph operator's certificate; 918 e) ship stations equipped with a radiotelephone installation: one operator holding either a radiotelephone operator's certificate or a radiotelegraph operator's certificate: 919 f) aircraft stations except in the cases provided for in No. 920: one operator holding a first or second class radiotelegraph operator's certificate, according to the internal regulations of the governments to which the stations are subject; 920 g) aircraft stations equipped with a radiotelephone instal
 - lation but not equipped for telegraphy: one operator holding, as the case may be, a radiotelephone operator's certificate or a radiotelegraph operator's certificate according to the internal regulations of the governments to which the stations are subject ¹.
- 920.1 ¹ See also Nos. 899 to 904 inclusive.

- 164 -

B) NOC	912 - 91 3	
MOD	914	(a) ship stations of the first category; a chief operator holding a radiocommunication operatory general certificate, or a first class radiotelegraph operator's certificate.
Reasons :		
revision	For clar of No. 909	ification and consequential upon 888A-888J, and the
MOD	915	(b) ship stations of the second and third categories: one operator holding a radiocommunication operator's general certificate or a first or a second class radiotelegraph operator's certificate.
<u>Reasons</u> :		
and 931A.	· · · · · · · · · · · · · · · · · · ·	ntial upon Nos. 888A-888J and the revision of Nos. 931
MOD	916	(c) ship stations of the fourth category, except in the case provided for in No. 917: one operat holding a radiocommunication operator's general certif cate or a first or a second class radiotelegraph operator's certificate.
<u>Reasons</u> :		
	Consequer	ntial upon Nos. 888A-888J and the revision of No. 932.
MOD	917	(d) ship stations in which a radiotelegraph installation is provided but not prescribed by inter- national agreements: one operator holding a radio- communication operator's general certificate or a firs or second class radiotelegraph operator's certificate or a radiotelegraph operator's special certificate.
Reasons :		
<u>Reasons</u> :	Consequer	ntial upon Nos. 888A-888J.

<u>Ref</u>.

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Proposals relating to

Article 25

Working Hours of Stations in the Maritime and Aeronautical Mobile Services

Section IV. Ship Stations

N° 929 - 938

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Section IV. Ship Stations

929	§ 6. (1) For the international public correspondence service, ship radiotelegraph stations are divided into three categories :
930	 Stations of the first category : these stations maintain a continuous service.
931	 Stations of the second category: these stations maintain a service of limited duration as indicated in Nos. 934 and 935.
932	 Stations of the third category : these stations maintain a service the duration of which is either shorter than that of stations of the second category, or is not fixed by these Regulations.
933	(2) Each administration shall itself determine the rules under which ship radiotelegraph stations subject to it are to be placed in one or the other of the above three categories.
934	§ 7. (1) Ship stations of the second category shall provide service at least during the hours fixed by Appendix 12. These hours shall be mentioned in the licence.
935	(2) In case of short voyages, these stations shall provide

- 935 (2) In case of short voyages, these stations shall provide service during the hours fixed by the administrations to which they are subject.
- 936 § 8. When practicable, the hours of service of ship stations of the third category should be mentioned in the List of Ship Stations.
- 937 § 9. As a general rule, when a coast station has traffic on hand for a ship station of the third category not having fixed hours of service and assumed to be within the service area of the coast station, the latter shall call the ship station during the first half-hour of the first and third periods of service for ships of the second category performing an eight-hour service, in accordance with the provisions of Appendix 12.

Ref.

G/64(74)MOD 929 § 6 (1) For the international public correspondence service, ship stations are divided into four categories :

Reasons :

To include ships fitted with radiotelephony and to introduce a fourth category.

MOD 931 - Stations of the second category : these stations maintain a service for 16 hours a day.

Reasons :

To provide a separate category for ships maintaining a service for 16 hours a day.

ADD 931A - Stations of the third category : these stations maintain a service for 8 hours a day.

Reasons :

To provide a separate category for ships maintaining a service for 8 hours a day.

MOD 932 - Stations of the fourth category : these stations maintain a service the duration of which is either shorter than that of stations of the third category, or is not fixed by these Regulations.

Reasons :

Consequent upon the introduction of a fourth category.

MOD 933 (2) Each administration shall itself determine the rules under which ship stations subject to it are to be placed in one or other of the above four categories.

Reasons :

To include ships fitted with radiotelephony and to take account of the introduction of a fourth category.

G/64(74) (cont.)

§ 7 (1) Ship stations of the second and third categories shall provide service at least during the hours fixed by Appendix 12. These hours shall be mentioned in the licence.

Reasons :

934

MOD

Consequent upon the introduction of a fourth category.

NOC 935

SUP 936

Reasons :

Unnecessary. Not observed in practice.

SUP 937

Reasons :

Not observed in practice, and satisfied by No. 1065 and No. 1067.

SUP 938

937.1

Reasons :

Consequential upon the preceding proposals, and covered by Nos. 929-933 as amended.

AUS/54(6)

However ship stations of the third category operating within Zone C shall provide service at least during the first half-hour of the second period of service for ships of the second category performing an eight hour service in accordance with the provisions of Appendix 12.

<u>Reasons</u> :

ADD

There have been many instances in the Australian area where ships of the third category, known to be within the service range of a coast station, have failed to reply to calls directed to them and repeated at the times specified in No. 937. Messages for these ships have therefore been delayed, and in several cases, some anxiety has arisen for the safety of the ships concerned.

Proposals relating to Article 28

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Conditions to be Observed by Mobile Stations

Section I. General Provisions

N° 956

Section I. General Provisions

- 955 § 1. (1) Mobile stations shall be established in such a way as to conform to the provisions of Chapter II as regards frequencies and classes of emission.
- 956 (2) For the use of class B emissions by mobile stations see No. 677.
- **957** § 2. The frequencies of emission of mobile stations shall be checked as often as possible by the inspection service to which these stations are subject.
- **958** § 3. The energy radiated by receiving apparatus shall be reduced to the lowest possible value and shall not cause harmful interference to other stations.
- **959** § 4. Administrations shall take all practicable steps necessary to ensure that the operation of any electrical or electronic apparatus installed in mobile stations does not cause harmful interference to the essential radio services of stations which are operating in accordance with the provisions of these Regulations.
- **960** § 5. (1) Changes of frequency in the sending and receiving apparatus of any mobile station shall be capable of being made as rapidly as possible.
- 961 (2) Installations of any mobile station shall be capable, once communication is established, of changing from transmission to reception and vice versa in as short a time as possible.
- 962 § 6. The operation of a broadcasting service (see No. 28) by mobile stations at sea and over the sea is prohibited.
- 963 § 7. Mobile stations other than survival craft stations shall be provided with the documents enumerated in the appropriate section of Appendix 11.
- 964 § 8. When any ship station transmitter itself cannot be controlled in such a way that its frequency satisfies the tolerance specified in Appendix 3, the ship station shall be provided with a device, having a precision equal to at least one-half of this tolerance, for measuring the frequency of the emission.

G/63 (73)	SUP	956
	Reasons	
		Consequential upon amendment of No. 677.
G/60(12)	ADD	964A Equipment intended for use on narrow-band direct- printing telegraph systems should conform to the Recommendations of the C.C.I.R. and other

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Proposals relating to

Article 28

Section III. Ship Stations using Radiotelegraphy

N° 971, 974, 975, 976, 978 and 981

Section III. Ship Stations using Radiotelegraphy

970 § 12. Ship stations equipped with radiotelegraph apparatus intended to be used for normal traffic shall be provided with devices permitting change-over from transmission to reception and vice versa without manual switching. In addition these stations should be able to listen on the reception frequency during the course of periods of transmission.

Bands between 110 and 160 kc/s

971 § 13. In ship stations all apparatus installed for the use of class A1 emissions on frequencies in the authorized bands between 110 and 160 kc/s shall provide, in addition to the frequency 143 kc/s, at least two frequencies selected within these bands.

Bands between 405 and 535 kc/s

- **972** § 14. Transmitters used in ship stations working in the authorized bands between 405 and 535 kc/s shall be provided with devices readily permitting a material reduction of power.
- **973** § 15. All ship stations equipped with radiotelegraph apparatus to work in the authorized bands between 405 and 535 kc/s shall be able to :
 - a) send and receive class A2 emissions on 500 kc/s;
- 975

974

b) send, in addition, class A1 and A2 emissions on at least two working frequencies;

976

- c) receive, in addition, class A1 and A2 emissions on all the other frequencies necessary for their service.
- 977 § 16. The provisions of Nos. 975 and 976 do not apply to apparatus provided solely for distress, urgency and safety purposes.

Bands between 1 605 and 2 850 kc/s

978 § 17. In Regions 2 and 3, any radiotelegraph station installed on board a ship which uses frequencies in the band 2088.5-2093.5 kc/s for call and reply shall be provided with at least one other frequency in the authorized bands between 1 605 and 2 850 kc/s.

Bands between 4000 and 27 500 kc/s

- **979** § 18. In ship stations, all apparatus using class A1 emissions on frequencies in the authorized bands between 4 000 and 27 500 kc/s shall satisfy the following conditions :
 - a) in each of the bands necessary to carry on the station's service, it shall have at least two working frequencies in addition to one in the calling band (see Nos. 1193 and 1198);
 - b) changes of frequency in transmitting apparatus shall be effected within five seconds if the frequencies are in the same band and within fifteen seconds if the frequencies are in different bands;
 - c) in the matter of frequency changing, receiving apparatus shall be capable of a performance equal to that of the transmitting apparatus.

982

981

980

<u>Ref</u> .	
10- (1-)	
G/61 (67)	SUP 971
	Reasons :
	Consequential upon proposed deletion of Nos. 171-172 and 1095-1105.
	na sense se s
G/58(5)	MOD 974 a) Send Class A2 or A2H emissions on 500 kc/s; 1
	ADD 974A aa) Receive Class A2 and A2H emissions on 500 kc/s; ¹
	Reasons :
	To provide for the use of Class A2H emissions on 500 kc/s.
	ADD 974.1 ¹ The type of A2 and A2H used shall be by the on-off keying of the modulated emission.
	<u>Reasons</u> :
	To ensure the correct operation of all types of radio- telegraph automatic devices for the reception of the radiotelegraph auto alarm signal.
CAN/43(16)	MOD 974 a) send and receive class A2 or A2H emissions on 500 kc/s;
	Reasons : To provide for the use of single sideband emissions
	on 500 kc/s .
F/12(71)	No. 974 - Replace the present text by the following :
• • •	a) send and receive class A2 or A2H emissions on 500 kHz;
	Reasons :
	To allow the optional use of class A2H emissions on
	500 kHz.
I/35(24)	MOD 974 a) send and receive class A2 or A2H emissions with carrier frequency on 500 kc/s;
	Reasons :
· .	To provide, on distress and calling frequencies, permissive use of single sideband emissions compatible with class A2 and A3 double sideband emissions.

<u>Ref.</u> USA/20(33)

MOD 974

a) send and receive class A2 or A2H emissions with carrier frequency*) on 500 kc/s.

Reasons :

To provide for the permissive use of full carrier single sideband (SSB) emissions on the distress and calling frequencies for stations using SSB transmitting equipment. The C.C.I.R. has determined that the emissions A2H and A3H are as effective as A2 or A3 emissions for use as alarm, distress, urgency and safety signals.

F/12(72)

No. 975 - Replace the present text by the following :

b) send, in addition, class Al and A2 (or A2H) emissions on at least two working frequencies.

Reasons :

To permit the optional use of class A2H emissions even on frequencies other than the international calling and distress frequency.

F/12(73) No. 976 - Replace the present text by the following :

975

976A

c) receive, in addition, class Al, A2 and A2H emissions on all the other frequencies necessary for their service.

Reasons :

MOD

MOD

ADD

See proposal No. F/12(72) relative to No. 975.

G/66**(80)**

b) send, in addition, class Al and either A2 or A2H emissions on at least two working frequencies;

976 c) receive, in addition, class Al, A2 and A2H emissions on all other frequencies necessary to their service.

Reasons :

To provide for the use of class A2H emission.

G/58(5)

 s_{15} (bis) Only class A2 and A2H emissions shall be used in the band between 490-510 kc/s.

Reasons :

To protect auto-alarm equipment designed for A2 reception from strong Al signals which can render reception inoperative.

HOL/73(14)	MOD 974	a) send <u>class A2 or A2H</u> and receive class A2 and A2H emissions on 500 kc/s;
	MOD 975	b) send, in addition, class Al and A2 (or A2H) emissions on at least two working frequencies;
	MOD 976	c) receive, in addition, class Al <u>, A2 and A2H</u> emissions on all the other frequencies mecessary for their service.

AUS/54(7)	MOD	978 B 17.	In Regions 2 and 3, any radiotelegraph station installed on board a ship which uses frequen- cies in the band 2088.5 - 2093.5 kc/s for call and reply shall be provided with at least one other frequency in the authorized bands between 1605 and 2850 kc/s.
USA/24 (5 8)	MOD	981	b) changes of frequency in transmitting apparatus shall be effected as quickly as practicable, but within fifteen seconds in any event; within-five- seconds-if-the-frequencies-are-in-the-same-and-within fifteen-seconds-if-the-frequencies-are-in-different

bande+

Reasons :

Ref.

To provide a time period for changes of frequency in ship station transmitters which takes into account characteristics of equipment employing automatic tuning.

Background :

The requirement for rapid frequency shift of ship telegraph transmitters (5 seconds within the same band and 15 seconds between bands) now contained in No. 981, first appeared as a requirement in No. 592 of the Atlantic City Radio Regulations. This provision was adopted as the result of a proposal made by the U.S. based on the needs of the calling-working concept. It is applicable, however, only to the use of Al emission. There are available today multi-purpose transmitters of high stability using automatic tuning and frequency synthesis techniques which are adaptable to Al, Fl, SSB, data transmission, etc. Such transmitters can be shifted readily to any frequency in the 2 - 30 Mc/s range and tend to minimize human error in the tuning process. However, the time required for complete cycling of automatic tuning systems which have been evaluated, range from 6 to 12 seconds. Clearly, such devices comply with the spirit of the Radio Regulations. Their use is inhibited in that they fail to meet the precise letter of the Radio Regulations in one aspect only, i.e., the five second limitation now in the regulations. This five second limitation was chosen arbitrarily in 1947 and need not be perpetuated at the expense of improved technology.

USSR/51(7)

<u>Agenda Item 5</u>: Classes of emission to be used on the <u>international</u> distress and calling frequencies 500 kc/s and 2182 kc/s.

Proposal

It is proposed that the classes of emission recommended by the C.C.I.R. be adopted (Recommendation 438, Oslo 1966).

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Proposals relating to

Article 28

Section IV. Ship Stations using Radiotelephony

N° 983 - 991

Section IV. Ship Stations using Radiotelephony

Bands between 1 605 and 4 000 kc/s

All ship stations equipped with radiotelephony apparatus 983 § 19. to work in the authorized bands between 1 605 and 2 850 kc/s shall be able to : a) send and receive class A3 emissions on 2182 kc/s; 984 b) send, in addition, class A3 emissions on at least two 985 working frequencies; 1 986 c) receive, in addition, class A3 emissions on all the other frequencies necessary for their service. The provisions of Nos. 985 and 986 do not apply to appa-987 § 20. ratus provided solely for distress, urgency and safety purposes. Bands between 156 and 174 Mcls All ship stations equipped with radiotelephony to work 988 § 21. in the authorized bands between 156 and 174 Mc/s (see No. 287 and Appendix 18) shall be able to send and receive Class F3 emissions on: 989 a) the calling and safety frequency 156.80 Mc/s; 990 b) the primary intership frequency 15630 Mc/s; and 991 c) all the frequencies necessary for their service.

^{985.1 &}lt;sup>1</sup> In certain areas, administrations may reduce this requirement to one working frequency.

Ref.		- 183 -
0/76(29)	MOD	983 § 19. All ship stations equipped with radio- telephony apparatus operating in the double sideband mode to work in the authorised bands between 1605 and 2850 kc/s shall be able to :
an a	Reason	<u>s</u> :
		To cover double sideband operation only. see also Agenda Item 5, G/58(5), Document No. 58)
CAN/43(17)	MOD	984 a) send and receive class A2 or A3H emissions on 2182 kc/s;
F/8(15)		No. 984 Replace the present text by the following :
		a) send class A3H emissions and receive class A3 and A3H emissions on the carrier frequency 2182 kc/s;
		Reasons :
		To enable class A3H SSB emissions to be received on the DSB receivers of stations not compelled to convert to SSB operation (see No. 996).
F/8(16)		No. 985 Replace the present text by the following :
		b) send, in addition, Class A3A and A3J emissions on at least two working frequencies; (1)
		Reasons :
3		Consequence of using SSB.
F/8(17)	1	No. 986 Replace the present text by the following :
		c) receive, in addition, class A3A, A3H and A3J emissions on all other frequencies necessary for their service.
	<u>1</u>	Reasons :
	t 3 1	Consequence of using SSB. Furthermore, coast stations must send class A3H emissions for the equipment provided solely for distress, urgency and safety traffic (Nos. 987 and 996) to be able to receive general messages (notices to mariners, meteorological bulletins). To avoid repetition of these messages with A3A or A3J, all ship stations must be able to receive with A3H.
F/8(18)	Ň	No. 987 Replace the present text by the following :
		The provisions of Nos. 984, 985 and 986 do not apply to apparatus provided solely for distress, urgency and safety purposes, which need only be able to :
		- send class A3 or A3H emissions on 2182 kc/s;

receive class A3 and A3H emissions on the frequencies
 used for distress, urgency and safety purposes, <u>Reasons</u>:

Ref.		- 184 -
F/8(18)	Reasons :	
(cont.)	on board small shi	ovisions relate to simple apparatus installed ps and intended solely for distress and safety conversion to SSB should not be compulsory.
HOL/70 (2)	MOD 984	a) send <u>class A3H</u> and receive class A3 <u>and A3H</u> emissions on 2182 kc/s;
	Reasons :	
	of single sideband	nsistent with the proposal for the introduction emissions and to permit communication with tions. See also proposal relating to /73(14)).
	MOD 985	b) send, in addition class <u>A3A and class A3J</u> emissions on at least two working frequencies;
	MOD 986	c) receive, in addition, class <u>A3A and</u> <u>class A3J</u> emissions on all the other frequencies necessary for their service.
TITTIC		
I/35(24)	MOD 984	a) send and receive class A3 or A3H emissions with carrier frequency on 2182 kc/s;
I/31(10)	MOD 985	b) send in addition class A3 or A3H and A3A emissions on at least two working frequencies; 1, 2)
	MOD 986	c) receive in addition class A3 or A3H and A3A emissions on all the other frequencies necessary for their service. 2)
	ADD 985.2	2) After 1 January 1980, class A3 and A3H emissions are no longer required.
	<u>Reasons</u> :	

Proposed modifications are a direct consequence of the conversion to single sideband technique.

As to classes of emission on the distress frequency 2182 kc/s, see Proposal No. I/35(25) under Agenda Item 5 (Document No. 35).

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J/84(8)

a) send and receive class A3 or A3H emissions and receive class A3 and A3H emissions on 2182 kc/s;

Reasons :

984

MOD

Consequence of conversion to SSB system; and in view of the C.C.I.R. Recommendation (No. 438) relating to the use of classes of emission on the frequency 2182 kc/s, amendment is in need.

In consideration of the advantage for the use of apparatus provided for distress purposes as mentioned in No. 987, and in view of the recognition of 17 kc/s as the guard band of 2182 kc/s, the use of class A3 emissions remains as it is.

J/84(9)

985 b) send, in addition, class <u>A3J and A3A</u> emissions if required for the public correspondence service, on at least two working frequencies; 1

Reasons :

MOD

As regards classification of emissions, in consideration of the possibility of reducing the effect of conversion to SSB because the carrier frequency of class A3H emissions, and even that of class A3A emissions decreased by 16 db would cause interference due to beat notes between carriers and interference due to crossmodulation between adjacent channel transmissions; of the fact that in Japan some 7000 ship stations are already carrying on communications with class A3J emissions; and of the C.C.I.R. Recommendation's (No. 258-1) intention of using class A3J emissions as a desirable objective and so forth, it is proposed to use in principle class A3J emissions and class A3A emissions if required for public correspondence.

J/84(10)

986

c) receive, in addition, class <u>A3J and A3A</u> <u>emissions if required for the public corres</u>-<u>pondence service</u>, on all the other frequencies necessary for their service.

Reasons :

MOD

This corresponds to amendment to No. 985 and proposal was made of classes of emissions of the minimum necessity.

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Ref.	
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Ref.		
USA/20(34)	MOD 984	a) send and receive class A3 or A3H emissions with carrier frequency*) on 2182 kc/s.
· · · · ·		
USA/16(12)	NOC 98	
	MOD 98	a) send and receive class A3 <u>or A3H</u> emissions <u>with carrier frequency</u> on 2182 kc/s;
	MOD 98	b) send, in addition, eless-A3-emissions on at least two working frequencies;1)
	MOD 98	c) receive, in addition, elass-A3-emissions on all the other frequencies necessary
		for their service.
	ADD <u>98</u>	8 19bis. The class of emissions employed by ship stations shall be consistent with the provisions of Nos. 1339AA through 1339AE.
	NOC 98	(1 1) In certain areas, administrations may reduce this requirement to one working frequency.
	Reasons :	
	Con (USA/16(1) -	equential to the proposed amendment of Article 35 11)).
g/ 76(29)	ADD 98	with radiotelephony apparatus operating in the single sideband mode to work in the authorized bands between 1605 and 2850 kc/s shall be able
		to:
	98	a) send class A3H emission and receive classes A3H and A3 emissions on 2182 kc/s;
	98	b) send, in addition, class A 3 H, A 3A and A 3 J emissions on at least two working frequencies ¹ ;
	98	c) receive, in addition, class A3H, A3A and A3J emissions on all other frequencies necessary for their service;

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<u>Ref</u>.

G/76(29) (cont.)

- (2) The provisions of Nos. 987C and 987D do not apply to apparatus provided solely for distress, urgency and safety purposes.

Reasons :

987E

To provide for the use of the single sideband mode of operation.

ADD 987C.1 ¹ In certain areas, administrations may reduce this requirement to one working frequency.

Reasons :

Consequential upon new No. 987C.

USSR/51(7)

Agenda Item 5 : Classes of emission to be used on the international distress and calling frequencies 500 kc/s and 2182 kc/s.

Proposal

It is proposed that the classes of emission recommended by the C.C.I.R. be adopted (Recommendation 438, Oslo 1966).

It is proposed that the transfer to single sideband operation be effected in the following order and by the following dates :

USSR/48(1)

from 1 January 1972 onwards : no further installation of double sideband equipment in ships and coast stations;

- from 1 January 1977 onwards : the use of double sideband equipment by ships and coast stations must cease.

It is proposed to reduce the interference guard band for frequency 2182 kc/s to \pm 5 kc/s, keeping the bands 2170 - 2177 and 2187 - 2194 kc/s for the exclusive use of radiotelephone stations of the Maritime Mobile Service.

Comments

In view of the progress made with single sideband equipment and the need to increase the possibilities of using the radio frequencies allocated to the Maritime Mobile Service the Soviet Administration considers that ship and coast radiotelephone stations should be converted to single sideband operation over the next few years. 1 January 1972 is proposed as the date after which double sideband radio equipment should no longer be installed, and 1 January 1977 as the deadline for complete cessation of the use of double sideband radio equipment.

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Proposals relating to

Article 28

Section V. Aircraft Stations

N° 992

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Section V. Aircraft Stations

992 § 22. (1) Any aircraft following a maritime course and required by national or international regulations to communicate, for safety purposes, with stations of the maritime mobile service shall be capable of transmitting and receiving on the frequency 500 kc/s, preferably class A2 emissions, or, on the frequency 2 182 kc/s, class A3 emissions.

993 (2) Aircraft stations, when communicating with stations of the maritime mobile service on frequencies allocated to that service, shall comply as far as possible with the provisions of this Article.

- 190 -

<u>Ref.</u>

CAN/43(18)

992 § 22.(1) Any aircraft following a maritime course and required by national or international regulations to communicate, for safety purposes, with stations of the maritime mobile service shall be capable of transmitting and receiving on the frequency 500 kc/s. preferably class A2 <u>or A2H</u> emissions or on the frequency 2182 kc/s class A3 or A3H emissions;

Reasons :

MOD

To provide for the use of single sideband emissions on 500 and 2182 kc/s.

F/8(19)

No. 992 Replace the last two lines of this number by the following ::

"of transmitting and receiving on the frequency 500 kc/s, preferably class A2 or A2H emissions, or, on the frequency 2182 kc/s, class A3 or A3H emissions."

Reasons :

Consequence of using SSB. See also Proposal F/12(71) relating to No. 974 concerning radiotelegraphy (Item 5 of the agenda), Pocument No. 12.

¢/58(5)

MOD

992

g22(1) Any aircraft following a maritime course and required by national or international regulations to communicate, for safety purposes, with stations of the maritime mobile service shall be capable of transmitting and receiving on the frequency 500 kc/s, class A2 or A2H emissions, or on the frequency 2182 kc/s, class A3 or A3H emissions.

Reasons :

To provide for the use of class A2H and A3H emissions.

receiving class A3 and A3H emissions.

I/35(24) MOD 992 § 22. (1) Any aircraft following a maritime course and required by national or international regulations to communicate, for safety purposes, with stations of the maritime mobile service shall be capable of transmitting class A2 or A2H and receiving class A2 and A2H emissions on the frequency 500 kc/s, or, on the frequency 2182 kc/s, transmitting class A3 or A3H and

J/84(11)

992

MOD

§22. (1) Any aircraft following a maritime course and required by national or international regulations to communicate, for safety purposes, with stations of the maritime mobile service shall be capable of transmitting class A2 or A2H Ref.

J/84(11) (cont.) and receiving <u>class A2 and A2H emissions</u> on the frequency 500 kc/s preferably class A2 emissions, or, on the frequency 2182 kc/s, <u>transmitting</u> class A3 <u>or A3H and receiving</u> class A3 and A3H emissions.

Reasons :

See proposal relating to No. 984 (J/84(8)).

USA/20(35)

MOD 992

22.(1) Any aircraft following a maritime course and required by national or international regulations to communicate, for safety purposes, with stations of the maritime mobile service shall be capable of transmitting class A2 or A2H and receiving class A2 and A2H emissions on the frequency 500 kc/s preferably class A2 emissions, or, on the frequency 2182 kc/s, transmitting class A3 or A3H and receiving class A3 and A3H emissions. Article 28

Section VI. Survival Craft Stations

N° 995, 996

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- 194 -

994 § 23. Equipment provided for use in survival craft stations shall,

if capable of operating on any frequency :

995

in the bands between 405 and 535 kc/s, be able to transmit on 500 kc/s using class A2 emissions, but see No. 677. If a receiver is provided for any of these bands, it shall be able to receive class A2 emissions on 500 kc/s;

996

— in the bands between 1 605 and 2 850 kc/s, be able to transmit on 2 182 kc/s using class A3 emissions. If a receiver is provided for any of these bands, it shall be able to receive class A3 emissions on 2 182 kc/s;

- in the bands between 4 000 and 27 500 kc/s, be able to transmit on 8 364 kc/s using class A2 emissions. If a receiver is provided for any of these bands, it shall be able to receive class A1 and A2 emissions throughout the band 8 320 to 8 745 kc/s;
- in the bands between 118 and 132 Mc/s, be able to transmit on 121.5 Mc/s, preferably using amplitude modulated emission. If a receiver is provided for any of these bands, it shall be able to receive class A3 emissions on 121.5 Mc/s;

999

- in the bands between 235 and 3286 Mc/s, be able to transmit on the frequency 243 Mc/s.

998

997

Ref.

CAN/43(19) 995 MOD in the bands between 405 and 535 kc/s, be able to transmit on 500 kc/s using class A2 or A2H emissions, but see No.677. If a receiver is provided for any of these bands, it shall be able to receive class A2 and A2H emissions on 500 kc/s: 996 CAN/43(20)MOD in the bands between 1605 and 2850 kc/s, be able to transmit on 2182 kc/s using class A3 or A3H emissions. If a receiver is provided for any of these bands, it shall be able to receive class A3 and A3H emissions

Reasons:

To provide for the use of single sideband emissions on 500 and 2182 kc/s.

on 2182 kc/s;

F/12(74) No. 995 - Replace the present text by the following :

- in the bands between 405 and 535 kHz, be able to transmit on 500 kHz using class A2 or A2H emissions. If a receiver is provided for any of these bands, it shall be able to receive class A2 and A2H emissions on 500 kHz.

Reasons :

See proposal No. F/12(71) relative to No. 974.

F/8(20)

No. 996 Replace the present text by the following :

 in the bands between 1605 and 2850 kc/s, be able to transmit on 2182 kc/s using class A3 or A3H emissions.
 If a receiver is provided for any of these bands, it shal be able to receive class A3 and A3H emissions on 2182 kc/s;

Reasons :

Consequence of using SSB, not compulsory for survival craft stations.

G/66 (80) MOD

- in the bands between 405 and 535 kc/s, be able to transmit on 500 kc/s using Class A2 or A2H emissions. If a receiver is provided for any of these bands, it shall be able to receive Class A2 and A2H emissions on 500 kc/s.

Reasons :

995

To provide for the use of Class A2H emission and consequent on amendement of No. 677 (see under Article 12, Additional Agenda Item UK4, Document No. 63).

G/76(29)

- in the bands between 1605 and 2850 kc/s, be able to transmit on 2182 kc/s using class A3 or A3H emissions. If a receiver is provided for any of these bands, it shall be able to receive class A3 and A3H emissions on 2182 kc/s.

Reasons :

MOD

996

995

To provide for the use of class A3H emissions.

BOL/73(14)

MOD

NOD

- in the bands between 405 and 535 kc/s, be able to transmit on 500 kc/s using class A2 <u>or A2H</u> emissions, but see No. 677. If a receiver is provided for any of these bands, it shall be able to receive class A2 <u>and A2H</u> emissions on 500 kc/s.

996 - in the bands between 1605 and 2850 kc/s, be
 able to transmit on 2182 kc/s using class A3
 or A3H emissions.

If a receiver is provided for any cf these bands, it shall be able to receive class A3 and A3H emissions on 2182 kc/s.

Reasons :

To permit the use of the classes of emission A2H and A3H on the distress and calling frequencies 500 kc/s and 2182 kc/s respectively.

The C.C.I.R. considers the emissions A2H and A3H to be as effective as A2 and A3 emissions for use as alarm, distress, urgency and safety signals.

Ref. I/35(24)MOD 995 - in the bands between 405 and 535 kc/s, be able to transmit on 500 kc/s using class A2 or A2H emissions, but see No. 677. If a receiver is provided for any of these bands, it shall be able to receive class A2 and A2H emissions on 500 kc/s; MOD 996 - in the bands between 1605 and 2850 kc/s, be able to transmit on 2132 kc/s using class A3 or A3H emissions. If a receiver is provided for any of these bands, it shall be able to receive class A3 and A3H emissions on 2182 kc/s. Reasons : To provide, on distress and calling frequencies 500 kc/s and 2182 kc/s, permissive use of single sideband emissions compatible with class A2 and A3 double sideband emissions. USA/20(36)MOD 995 in the bands between 405 and 535 kc/s, be able to transmit on 500 kc/susing class A2 or A2H emissions, but see No. 677. If a receiver is provided for any of these bands, it shall

on $500 \, \mathrm{kc/s}$;

USA/20(37)

- in the bands between 1605 and 2850 kc/s, be able to transmit on 2182 kc/susing class A3 or A3H emissions. If a receiver is provided for any of these bands, it shall be able to receive class A3 and A3H emissions on 2182 kc/s;

be able to receive class A2 and A2H emissions

Reasons :

996

MOD

To provide for the permissive use of full carrier single sideband (SSB) emissions on the distress and calling frequencies 500 kc/s and 2182 kc/s for stations using SSB transmitting equipment. The C.C.I.R. has determined that the emissions A2H and A3H are as effective as A2 or A3 emissions for use as alarm, distress, urgency and safety signals. Ref.

J/84(12)

in the bands between 1605 and 2850 kc/s, be able to transmit on 2182 kc/s using class
A3 or A3H emissions. If a receiver is provided for any of these bands, it shall be able to receive class A3 and A3H emissions on 2182 kc/s; 1

J/84(13)

<u>996.1</u> <u>In Regions 2 and 3, the frequencies in the</u> band between 2088.5 and 2093.5 kc/s using class Al emissions may be used.

Reasons :

footnote

MOD

ADD

996

See Agenda Item 7.2 (Document No. 89).

<u>Note</u>: Proposals J/89(74) and J/89(75), as those shown in Document N° 90 about points 996 and 996.1 are equal to proposals J/84(12) and J/84(13) above.

Ref.		
		Section VI. Survival Craft Stations
DNK/ISL/NOR/30(1)	ADD	999A S 24. However, survival craft stations intended primarily as beacons to indicate the positions of survivors or the location of a mobile station in distress shall be capable of transmitting :
	ADD	999B a) with the carrier on 2182 kc/s using the following types of emission depending upon the power of the beacon:
	ADD	999C i) beacons producing a the emission field strength equal specified in to or less than 10 1476B*) trans- microvolts per metre mitted conti- at a distance of 30 nnously. nautical miles at sea level (Type L)
	ADD	999D ii) beacons producing a field strength greater than 10 h476B* or microvolts per metre at a distance of 30 nautical miles at sea level (Type H) keying signal having a duration between 30 and 50 seconds and a period of silence having a duration between 30 and 60 seconds.
	ADD	999E Class A3 or A3H emissions may also be trans- mitted. If a receiver is provided, it shall be able to receive class A3 and A3H emissions. or,
	ADD	 b) with carriers on 121.5 and/or 243 Mc/s using the emission specified in 1476D^{*)}. Class A3 emissions may also be transmitted. If a receiver is provided, it shall be able to receive class A3 emissions.

*) Proposal DNK/ISL/NOR/30(2)

Ref.

ADD

add

Add the following number :

999 B

999a - No. 24 - Survival craft stations used in the maritime mobile service and intended primarily as beacons for locating an emergency or the position of survivors shall be able to transmit on 2182 kHz the signals defined in Nos. 1476 b or 1476 c (see F/14(84) and (85)). If the transmitter is such that the field produced at sea-level at a distance of 30 nautical miles exceeds 10 microvolts per metre, its operating cycle shall consist of a transmission lasting from 30 to 50 seconds followed by a silence lasting from 30 to 60 seconds.

HOL/75(23)

Article 28

Section VI - Survival craft stations

- 999 A § 24. However, survival craft stations intended primarily as beacons to indicate the positions of survivors or the location of a mobile station in distress shall be capable of transmitting :
 - a) on 2182 kc/s using the following types of emission depending upon the power of the beacon :
 - the emission specified in No. 1476 B 1) for beacons producing a field strength equal to or less than 10 microvolts per metre at a distance of 30 nautical miles at sea level;
 - the emission specified in No. 1476 C 11) for beacons producing a field strength greater than 10 microvolts per metre at a distance of 30 nautical miles at sea level.

Class A3 or A3H emissions may also be used. If a receiver is provided, it shall be able to receive class A3 and A3H emissions.

or,

b) on 121.5 and/or 243 Mc/s using the emission specified in No. 1476 D. Class A3 emission may also be used. If a receiver is provided, it shall be able to receive class A3 emissions.

ADD

999 C

Ref.

1/36(27)

Amend Article 28 of the Radio Regulations as follows :

Š 24. However, survival craft stations intended primarily for use as beacons to indicate the position of survivors or the location of a mobile station in distress shall be capable of transmitting :

a) with the carrier on 2182 kc/s using the emissions specified in No. 1476 AB*), if the beacon is provided for producing at sea a fie field intensity minor or equal to 10 μ V/m at the distance of 30 nautical miles, or in No. 1476 AC*), if the beacon is provided for producing at sea a field intensity higher than 10 μ V/m at the distance of 30 nautical miles. If the receiver is provided, it shall be able to receive A3 and A3H emissions;

ADD 999 AC

ADD 999 AA

ADD 999 AB

b) with carriers on 121.5 and/or
243 Mc/s using the emissions specified in
No. 1476 AD*). Class A3 emission may also be
transmitted. If a receiver is provided, it shall
be capable to receive class A3 emissions.

Background :

The distinction between emissions in respect of field intensity produced at the distance of 30 nautical miles results from C.C.I.R. Recommendation (Doc. XIII/1008 - Oslo, 1966).

*) Proposal No. 1/36(28)

J/89(76)	ADD	<u>999A</u>	<u>\$24</u> . Equipment provided for use in survival craft stations shall, if emergency position- indicating radio beacons are included, be able to transmit on 2182 kc/s the signals defined in Nos. 1476B or 1476C. If a receiver is provided, it shall be able to receive class
			A3 and A3H emissions on 2182 kc/s;1

J/89(77)

USA/22(51)

<u>999A.1</u> In Japan, there exist emergency positionindicating radio beacons which transmit the distress signal and identification on frequencies between 2088.5 and 2093.5 kc/s using class Al emissions.

Reasons :

footnote

ADD

To lay down conditions for the use of the emergency position-indicating radio beacon. In Japan there is already in wide use the automatic apparatus for distress information using class Al emissions on 2091 kc/s. Therefore, it is requested that in Regions 2 and 3, where the band 2088.5 - 2093.5 kc/s is reserved exclusively for calling, the band between 2088.5 and 2093.5 should be designated as a safety frequency band in the rad_otelegraph maritime mobile service and be added to frequencies with which survival craft stations shall be provided (see No. 455).

Section VI. Survival Craft Stations

ADD <u>999A</u> Paragraph 24. Exceptionally, however, survival craft stations intended primarily as beacons to indicate the positions of survivors or the location of a mobile station in distress shall be capable of transmitting:

ADD <u>999B</u> a) with the carrier on 2182 kg/s using the emission specified in 1476B (Proposal No. USÁ/22(52)). Class A3 or A3H emission may also be transmitted. If a receiver is provided, it shall be able to receive class A3 and A3H emissions, or

ADD 999C b) with carriers on 121.5 and/or 243 Mc/susing the emission specified in 1476C (Proposal No.USA/22(52)). Class A3 emission may also be transmitted. If a neceiver is provided it shall be able to receive class A3 emissions.

Reasons :

To provide for world-wide conditions of use, definitions and frequencies for emergency position-indicating beacons.

Article 28

RFA/94(21)

ADD

Section VII

ADD 999A

Floatable emergency position-indicating radio beacon on 2182 kc/s. Floatable emergency position-indicating radio beacons working on 2182 kc/s shall be able to use class A2 emissions. Additionally, class A3 or A3H emissions may be used.

- See also Article 36 Section VIII A (RFA/94(27)).

Reasons :

Insertion in the Regulations of provisions relating to emergency position-indicating beacons (see C.C.I.R. Recommendation N^o 439).

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Proposals relating to

the introduction of an

Article 28A

Selective calling in the maritime mobile service

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				· · · ·	
	0 /01 (5 0)	ADD		- 207 -	
	G/91(5 0)	~~~	а -	Article 28A	
				Selective calling in the service	e maritime mobile
	G/113(58)	ADD	999B		The characteristics of the calling system shall be in to"
	× ·	Rea	asons : G	onsequential upon proposa	ls for new Appendix 20C.
		• •		Method of calling	
	G/91(50)	ADD	999C	$\hat{\mathbf{s}}$ 2. (1) The call shall	l consist of :
				- the selective call nun called;	mber of the ship station
				- the identification nur station calling;	mber of the coast
				- the whole repeated tw	ice.
ADD			999D	(2) When a station reply, the call should a repeated until after an / five 7 minutes and sha be renewed until after 7 / 30 7 minutes.	not normally be interval of at least ould not then normally
				Reply to calls	
		ADD	999E	$\frac{8}{3}$ 3. The reply to calls accordance with :	s should be made in
		1		Nos. 1022-1023 when usin	ng radiotelegraphy
				Nos. 1241-1253 when usin	ng radiotelephony
				Frequencies and classes.	of emission to be used
	G/113(58)	ADD	999F <u>Fre</u>	§ 4. Calls shall be rad of the following frequer guency Cla	
			50	0 kc/s	A2H
			218	2 kc/s	A2H
				0.5 kc/s	A2H
				1.7 kc/s)	
				2.4 kc/s	
				9.2 kc/s	A2H
				2.2 kc/s	
				5.8 Mc/s	F2
Reasons : selective	To provide : calling device		of list in t	working frequency) ted for this purpose) the List of Coast) tions)	A2H (MF and HF) F2 (VHF)

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*) When brought into use.

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Proposals relating to Article 29

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General Radiotelegraph Procedure in the Maritime Mobile and Aeronautical Mobile Services

N° 1004, 1005 and 1006

Section I. General Provisions

1004 § 3. (1) In order to facilitate radiocommunications, stations of the mobile service shall use the service abbreviations given in Appendix 13.

.

1005 (2) In the maritime mobile service, only the service abbreviations given in Appendix 13 are to be used.

Section II. Preliminary Operations

1006 § 4. In areas where traffic is congested, ship stations shall take into account the provisions of No. 1115.

÷

Ref.

J/88(57) MOD 1004

33. (1) In order to facilitate radiocommunications, stations of the mobile service shall use the service abbreviations given in Appendix 13 and the abbreviations in the International Code of Signals.

J/88(58) MOD 1005

(2) In the maritime mobile service, only the service abbreviations given in Appendix 13 are to be used. <u>However, the use of abbreviations in the International Code of Signals is not precluded</u>.

G/78(91) SUP 1006

Reasons :

Superfluous.

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Proposals relating to

Article 29

Section III. Calls, Reply to Calls and

Signals Preparatory to Traffic.

N° 1013, 1015, 1023, 1024, 1025 and 1026

Section III. Calls, Reply to Calls and Signals Preparatory to Traffic

Method of Calling

1012 § 6. (1) The call consists of :

- the call sign of the station called, not more than three times;
- the word DE;
- the call sign of the calling station, not more than three times.

1013

3 (2) However, in the bands between 4 000 and 27 500 kc/s, when the conditions of establishing contact are difficult, the call signs may be transmitted more than three times, but not more than ten times each. In this case, the call signs of the called and the calling station shall be transmitted in alternate sequence up to a total of twenty call signs altogether (e.g. ABC ABC de WXYZ WXYZ...) or ABC ABC ABC de WXYZ WXYZ WXYZ...). This call may be sent three times at intervals of two minutes; thereafter it shall not be repeated until an interval of fifteen minutes has elapsed.

Frequency to be used for Calling and for Preparatory Signals

- 1014 § 7. (1) For making the call and for transmitting preparatory signals, the calling station shall use a frequency on which the station called keeps watch.
- 1015 (2) A ship station calling a coast station in any of the frequency bands allocated to the maritime mobile service between 4 000 and 27 500 kc/s shall use a frequency in the calling band specially reserved for this purpose.

Frequency for Reply

- 1023 § 11. (1) For transmitting the reply to calls and to preparatory signals, the station called shall use the frequency on which the calling station keeps watch, unless the calling station has specified a frequency for the reply.
- 1024 (2) As an exception to this rule :

1025

- a) When a mobile station calls a coast station on 143 kc/s, the coast station shall transmit the reply to the call on its normal working frequency in the bands between 90 and 160 kc/s, as indicated in heavy type in the List of Coast Stations.
- 1026
- b) When a mobile station calls a coast station in one of the bands authorized for radiotelegraphy between 4 000 and 27 500 kc/s, the coast station shall transmit the reply to the call on one of its working frequencies in the same band, these frequencies being indicated in the List of Coast Stations.

F/111(134)

MOD

1013

Replace by the following :

(2) However, in the bands between 4000 and 27 500 kc/s, when the conditions of establishing contact are difficult, the call sign may be transmitted not more than ten times in succession. The call shall consist of :

- the call sign of the station called, not more than ten times;
- the word DE:
- the call sign of the calling station, not more than three times.

If necessary, this call may be repeated once immediately afterwards. Each group of two consecutive calls may be repeated three times at intervals of two minutes; thereafter it shall not be repeated until an interval of 15 minutes has elapsed.

Reasons:

The present number 1013 is rather unclear. The important thing is that the station called should know that it is being called by another station. The calling station should therefore be able to repeat the call sign of the called station for a fairly long period. On the other hand, it is not necessary that it should repeat its own call sign so often. The proposed procedure would facilitate the work of ship stations.

F/111(135)

1023

MOD

Replace by the following :

5 11. (1) For transmitting the reply to calls and to preparatory signals, the station called shall use the frequency specified by the calling station. If this is not possible, it shall use the frequency on which the calling station keeps watch.

Reasons:

See proposal relating to No. 1115A to limit the use of frequency 500 kc/s by giving priority for replies to the working frequency of the called station.

J/90(85)

1013

MOD

(2) However, in the bands between 4000 and 27 500 kc/s, when the conditions of establishing contact are difficult, the call signals may be transmitted more than three times, but not more than ten times each. In this case, the call signs of the called and the calling station shall-be-transmitted-in-altornate-sequence-up-to-a-total of twonty call signs altogether (c.g. ABC ABC do WXYZ WXYZ ... or ABC ABC ABC do WXYZ WXYZ WXYZ) This call may be sent three times at intervals of two minutes; thereafter it shall not be repeated until an interval of fifteen minutes has elapsed. (e.g. ABC de WXYZ ABC de WXYZ ... (at intervals of two minutes) or ABC (six times) de WXYZ (four times) ABC (four times) de WXYZ (six times) (at intervals of two minutes) or ABC (ten times) de WXYZ (ten times) (at intervals of two (see Nos. 1077 to 1080.) minutes) etc.)

Reasons :

In order to facilitate the establishment of contact in the bands between 4000 and 27 500 kc/s, the call signs of the called and the calling stations are to be transmitted not more than ten times each according to the traffic condition and the call is to be made in such methods as shown by example. **SUI/101(1)** 1013

(2) However, in the bands between 4000 and 27 500 kc/s when the conditions of establishing contact are difficult, the call signs may be transmitted more than three times. In this case, the call signs of the called and the calling station shall be transmitted in alternate sequence up to a total of 20 call signs <u>altogether</u>. This call may be sent three times at intervals of two minutes; thereafter it shall not be repeated until an interval of <u>ten</u> minutes has elapsed.

Reasons :

MOD

Following numerous reports of infringements, it is suggested that this number of the Radio Regulations be amended to take account of actual requirements.

To increase the probability of contact when a call is made, the call sign of the called station should be transmitted for a much longer period than the call sign of the calling station.

G/65 (76) ADD 1012A

(1) bis. However, in the maritime mobile service in the bands between 4000 and 27,500 kc/s the call consists of :

the call sign of the station called, not more than three times;

- the word DE;

the call sign of the calling station, not more than three times;

- the signal AR;
- the call sign of the station called, once only;
- the letter K.

Reasons :

1013A

ADD

Experience has shown that the addition of the call sign of the called station sent once after that of the calling station materially speeds up replies to incompletely received calls.

G/65 (76)

(3) However, in the maritime mobile service in the bands between 4000 and 27,500 kc/s when the requirements of No. 1162 have been met, the call may be repeated at intervals of not less than one minute for a period not exceeding five minutes and shall not be renewed until after an interval of ten minutes.

Reasons :

To allow for more frequent calling in the HF bands.

Ref.

G/91(51)

(4) When selective calling is used the provisions of Article 28A shall be observed.

Reasons :

1013B

ADD

ADD

To provide for the use of selective calling devices see new Article 28A.

G/60(13)

(3) However, when using direct printing telegraphy or similar systems, the call may, by prior arrangement, be made on a working frequency in the bands reserved for such systems.

Reasons :

1015A

1017

1019A

To permit calls and preparatory signals on working frequencies when direct printing telegraphy or similar systems are being used.

G/65 (76)

(2) When, in the aeronautical mobile service, as an exception to this rule, the call is not followed by an indication of the frequency to be used for the traffic, this indicates :

Reasons :

MOD

Consequential upon new No. 1019A.

ADD

(3) When, in the maritime mobile service, as an exception to No. 1016 the call is not followed by an indication of the frequency to be used for the traffic, this indicates that the calling station is a coast station and that it proposes to use for traffic its normal working frequency. shown in the appropriate list of stations.

Reasons :

To make it obligatory for ship stations to indicate the working frequency to be used and so reduce signalling.

MOD S11, (1) Except as otherwise provided for in these regula-1023 tions, for transmitting the reply to calls and to preparatory signals, the station called shall use the frequency on which the calling station keeps watch, unless the calling station has specified a frequency for the reply. Reasons :

Consequential upon deletion of No. 1024. (See Additional Agenda Item UK2, Document No. 61).

<u>Ref</u> ,					•		
G/61(69)	SUP	1024 and	1025		- -	• •	
		Reasons					
			No longer nece	ssary.			
G/65 (76)	SUP	1026					
	Reasons	:		н. Т			
• •		To avoid	needless repetit	tion - alrea	dv covered	in No. 1	165-1

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Proposals relating to

Article 30

Calls by Radiotelegraphy

N° 1069, 1070, 1071, 1072,

1077, 1078 and 1080

- 1067 § 3. (1) In addition, each coast station shall, so far as practicable, transmit its calls in the form of "traffic lists" consisting of the call signs in alphabetical order of all mobile stations for which it has traffic on hand. These calls are made at specified times fixed by agreement between the administrations concerned and at intervals of at least two hours and not more than four hours during the working hours of the coast station.
- 1068 (2) Continuous or frequently repeated emissions of its call sign or of the enquiry signal CQ by a coast station should be avoided (see No. 693).
- 1069 (3) Coast stations shall transmit their traffic lists on their normal working frequencies in the appropriate bands.
- 1070 (4) They may, however, announce this transmission by the following brief preamble sent on a calling frequency :
 - CQ, not more than three times;
 - the word DE;
 - the call sign of the calling station, not more than three times;
 - QSW followed by the indication of the working frequency or frequencies on which the traffic list is about to be sent.
 - In no case may this preamble be repeated.
- 1071 (5) The provisions of No. 1070 are obligatory when 500 kc/s is used.
- 1072 (6) They do not apply when frequencies in the bands between 4 000 and 27 500 kc/s are used.
- 1077 § 5. (1) When a station called does not reply to a call sent three times at intervals of two minutes, the calling shall cease and shall not be renewed until after an interval of fifteen minutes.
- 1078 (2) However, in the case of a communication between a station of the maritime mobile service and an aircraft station, calling may be renewed after an interval of five minutes.
- 1079 (3) Before renewing the call, the calling station shall ascertain that the station called is not in communication with another station.
- 1080 (4) If there is no reason to believe that harmful interference will be caused to other communications in progress, the provisions of Nos. 1077 and 1078 are not applicable. In such cases the call, sent three times at intervals of two minutes, may be repeated after an interval of less than fifteen minutes but not less than three minutes.

F/111(136) MOD

Ref.

Add following sentence :

This transmission shall be preceded by a call to all stations (CQ).

Reasons:

1069

1070

See proposals relating to numbers 1070 and 1071.

F/111(137)

MOD

Replace by the following :

(4) The call to all stations preceding the traffic list may be sent on a calling frequency in the following form :

- CQ (remainder unchanged).

Reasons:

See proposal relating to number 1071.

F/111(138)

1071

Replace by the following :

(5) The provisions of number 1070 are obligatory for traffic lists which are not transmitted at fixed times.

Reasons:

MOD

Ship stations must listen to lists transmitted at fixed times directly on the working frequency of the coast station (see number 1073). G/65(77) ADD 1068A

(2) bis. However, in the bands between 4000 and 27,500 kc/s a coast station may transmit its call sign at intervals of not less than one minute to enable mobile stations to select the calling band with the most favourable propagational characteristics for effecting reliable communication (see No. 1162).

Reasons :

To improve efficiency of communications and to obviate the existing contradiction between the requirements of No. 1068 and No. 1162.

MOD	1071	(5)	The	provisions of No. 1070 :
ADD	10 71 A		a)	are obligatory when 500 kc/s is used;
(MOD)	1072		b)	do not apply when frequencies in the bands between 4000 and 27,500 kc/s are used.

Reasons :

Clarification.

MOD	1077	\$5.(1) When a station called does not reply, the call
	· .	may be repeated at three-minute intervals.

Reasons :

To expedite communications by reducing the interval between calls.

ADD 1077A

(1) bis. However, in the bands between 4000 and 27,500 kc/s when the requirements of No. 1162 have been met, the call may be repeated at intervals of not less than one minute for a period not exceeding five minutes and shall not be renewed until after an interval of ten minutes.

Reasons :

To allow for more frequent calling in the HF bands.

SUP 1078

<u>Reasons</u> :

Consequential upon revision of No. 1077.

SUP 1080

<u>Reasons</u> :

Unnecessary in view of revision of No. 1077.

Ref.

Proposals relating to

Article 32

Use of Frequencies for Radiotelegraphy in the Maritime Mobile

and Aeronautical Mobile Services

Section I. Bands between 90 and 160 kc/s

N° 1095 - 1105

A. Call and Reply

- 1095 § 1. (1) The frequency 143 kc/s (class A1 only) is the international calling frequency used by stations of the maritime mobile service in the bands between 90 and 160 kc/s.
- 1096 (2) Apart from 143 kc/s, the use of any frequency between 140 and 146 kc/s is forbidden.
- 1097 § 2. The frequency for replying to a call sent on 143 kc/s is: — for a ship station, 143 kc/s;
 - for a coast station, its normal working frequency.

B. Traffic

- 1098 § 3. (1) The following rules shall be observed by stations of the maritime mobile service using class A1 or F1 emissions in the bands between 90 and 160 kc/s :
- 1099 (2) a) Each coast station shall keep watch on 143 kc/s unless the List of Coast Stations provides otherwise.
- 1100 b) The coast station shall transmit its traffic on the working frequency or frequencies specially assigned to it.
- c) When a ship station desires to establish communication with another station of the maritime mobile service, it shall use 143 kc/s, unless the List of Coast Stations provides otherwise.
 - d) This frequency shall be used exclusively:

1102

- for individual calls and replies to such calls;
- for the transmission of signals preparatory to traffic.
- 1103 (3) A ship station after establishing communication with another station of the maritime mobile service on the general calling frequency 143 kc/s shall, so far as practicable, transmit its traffic on some other frequency in the authorized bands, taking care not to disturb the work in progress at another station.
- **1104** § 4. (1) As a general rule, any ship station working in the bands between 110 and 160 kc/s, when it is not engaged in communication with other stations of the maritime mobile service, shall, during its hours of service, keep watch every hour on 143 kc/s for five minutes beginning at x h. 35, Greenwich Mean Time (G.M.T.).
- 1105 (2) The frequency 143 kc/s may be used for individual calls, preferably during the period indicated in No. 1104.

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G/61(68) SUP 1095-1105

Reasons :

No longer necessary.

USA/26(61) SUP

Ref.

ARTICLE 32

Section I

Bands botween 90 and 160 ke/s

A. - Call and Reply

USA/26(61)	SUP	1 09 5
USA/26 (61)	SUP	1096
USA/26(61)	SUP	1097
USA/26 (61)	SUP	1098
USA/26(61)	SUP	1099
USA/26(61)	SUP	1100
USA/26(61)	SUP	1101
USA/26(61)	SUP	1102
USA/26 (61)	SUP	1103
USA/26(61)	SUP	1104
USA/26(61)	SUP	1105

Reasons

Use of 143 kc/s by ships for calling is no longer sufficient to justify its retention.

Background :

The frequency 143 kc/s was at one time used as a calling frequency in the band 90 - 160 kc/s by many ships, particularly large passenger vessels. For that reason, it was designated in the Radio Regulations as an exclusive calling frequency and, in addition, was protected by a guard band of six kc/s. The use of this band by ships has gradually diminished to the vanishing point so that the need for the calling frequency no longer exists. With the present limited usage, working frequencies should be adequate for ship calling and working and this band would then be made available for the increasing requirements for other purposes.

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Proposals relating to

Article 32

Section II. Bands between 405 and 535 kc/s

N° 1111, 1113, 1116, 1117, 1121 - 1125 and 1134.

A. Distress

- 1107 § 6. (1) The frequency 500 kc/s is the international distress frequency for radiotelegraphy; it shall be used for this purpose by ship, aircraft and survival craft stations using frequencies in the bands between 405 and 535 kc/s when requesting assistance from the maritime services. It shall be used for the distress call and distress traffic, for the urgency signal and urgency messages, and for the safety signal and, outside regions of heavy traffic, short safety messages. When practicable, safety messages shall be transmitted on the working frequency after a preliminary announcement on 500 kc/s (see also No. 1122).
- 1108 (2) However, ship and aircraft stations which cannot transmit on 500 kc/s should use any other available frequency on which attention might be attracted.
- (3) In addition, 500 kc/s may be used only :
- 1110 a) for call and reply (see Nos. 1114 and 1116);

1111

- b) by coast stations to announce the transmission of their traffic lists under the conditions provided for in No. 1071.
- 1112 (4) Apart from the transmissions authorized on 500 kc/s, and taking account of No. 1115, all transmissions on the frequencies included between 490 and 510 kc/s are forbidden.
- 1113 (5) In order to facilitate the reception of distress calls, other transmissions on the frequency 500 kc/s shall be reduced to a minimum, and in any case shall not exceed three minutes.

B. Call and Reply

- 1114 § 7. (1) The general calling frequency, which shall be used by any ship station or coast station engaged in radiotelegraphy in the authorized bands between 405 and 535 kc/s, and by aircraft desiring to enter into communication with a station of the maritime mobile service using frequencies in these bands, is the frequency 500 kc/s.
- (2) However, in order to reduce interference in regions of heavy traffic, administrations may consider the requirements of
 No. 1114 as satisfied when the calling frequencies assigned to coast stations open to public correspondence are not separated by more than 3 kc/s from the general calling frequency 500 kc/s.
- 1116 § 8. (1) The frequency for replying to a call sent on the general calling frequency (see No. 1114) is 500 kc/s, except where the calling station specifies the frequency on which it will listen for the reply (see No. 1023).
- 1117 (2) However, in regions of heavy traffic, ship stations should request coast stations to answer on their normal working frequency. In these regions coast stations may answer calls made by ship stations of their own nationality in accordance with special arrangements made by the administration concerned (see No. 1023).

Proposals relating to

Article 32

Section II (continuation)

• - - '

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C. Traffic

- 1121 (4) In regions of heavy traffic, coast stations should use class A1 emissions on their working frequencies.
- 1122 § 10. As an exception to the provisions of Nos. 1107, 1109, 1110 and 1111 and on condition that signals of distress, urgency and safety, and calls and replies are not interfered with, 500 kc/s may be used ¹ outside regions of heavy traffic for direction-finding but with discretion.
- 1123 § 11. (1) Ship stations employing class A1 or A2 emissions in the authorized bands between 405 and 535 kc/s shall use working frequencies chosen from the following : 425, 454, 468 and 480 kc/s, except as permitted by No. 418. In addition, ship stations may use 512 kc/s in Regions 1 and 3, and 448 kc/s in Region 2.

D. Watch

1134 § 13. (1) Stations of the maritime mobile service open to public correspondence and using frequencies in the authorized bands between 405 and 535 kc/s shall, during their hours of service, remain on watch on 500 kc/s. This watch is obligatory only for class A2 emissions.

^{1122.1 &}lt;sup>1</sup> Furthermore, subject to the conditions specified in No. 1122, the transmission of a single short radiotelegram on 500 kc/s is permitted within the service areas of certain coast stations of Australia, India, Indonesia and Pakistan. These countries shall endeavour to meet in full the provisions of this Article before the next Administrative Radio Conference.

F/12(75) No. 1106a After No. 1106, insert the following No. 1106a :

Whenever the class of emission A2 or A2H is mentioned in the present Regulations for use in the maritime mobile service, the type of transmission shall be telegraphy by on-off keying of the modulated emission, to the exclusion of on-off keying of the modulating audio frequencies only.

Reasons :

To avoid blocking of automatic equipment for the reception of alarm signals which operate by detecting the carrier frequency.

F/111(139)

1111 Change the end of the sentence to read

..... in numbers 1070 and 1071.

Reasons:

MOD

See proposal relating to number 1071.

F/111(140)

MOD 1113

Replace end of sentence by

..... shall not exceed one minute.

Reasons:

Transmissions authorized on 500 kc/s do not generally last more than one minute. In any case three minutes seem excessive.

Add the following number 1113A :

F/111(141)

1113A

Before transmitting on 500 kc/s, stations in the mobile service must listen on this frequency for a reasonable period to make sure that no distress traffic is being sent (see number 1007).

Reasons:

ADD

This is necessary to avoid the risk of interference to distress traffic when the station has heard neither the distress call nor the message.

		· .	Add the following number 1113B :
F/111(142)	ADD	1113B	The provisions of number 1113A do not apply to distress stations.
	Reasons:		
	Article		in distress apply the rules specified in
F/111(143)	ADD	11154	Add the following number 1115A : A ship station calling a coast station shall, wherever possible and particularly in regions of heavy traffic, indicate to the coast station that it is ready to receive on the working frequency of that station.
•	Reasons :	To restr:	ict the use of frequency 500 kc/s.
			Add the following number 1115B :
F/111(144)	ADD	1115B	The ship station should make sure beforehand that this frequency is not already being used by the coast station.
	Reasons:		
		if the co	difficulties in establishing contact liable ast station is unable to reply on the working d in number 1115A.
		· · ·	
F/111(145)	MOD	1116	Replace by the following :

The frequency for replies to calls sent on the general calling frequency (see number 1114) shall be as follows :

- either 500 kc/s,

- or the frequency specified by the calling station (see numbers 1023 and 1115A).

Reasons:

Ref.

Required by number 1115A.

F/111(146)

Replace by the following :

In regions of heavy traffic, coast stations may answer calls made by ship stations of their own nationality in accordance with special arrangements made by the administration concerned (see number 1023).

Reasons:

MOD

See proposal relating to number 1115A.

F/111(147)

1121

1117

Replace by the following :

In regions of heavy traffic, coast stations and ship stations should use class Al emissions on their working frequencies.

Reasons:

MOD

To prevent congestion of the frequency spectrum. See number 975. AUS/54(8)

Ref.

Furthermore, subject to the conditions specified in No. 1122, the transmission of a single short radiotelegram on 500 kc/s is permitted within the service areas of certain coast stations of Australia, India, Indonesia and Pakistan. These countries shall endeavour to meet in full the provisions of this Article before the next Administrative Radio Conference.

Reasons :

MOD

1122.1

This provision is not now required for Australian coast stations.

G/78(92)

§ 10. As an exception to the provisions of Nos. 1107, 1109, 1110 and 1111 and on condition that signals of distress, urgency and safety, and calls and replies are not interfered with, 500 kc/s may be used outside regi(of heavy traffic for direction-finding but with discretion.

Reasons:

MOD

Consequential upon deletion of No. 1122.1.

SUP 1122.1

1123

1122

Reasons :

The provision is now out-of-date.

G/66(81)

S 11. 1) Ship stations operating in the authorised bands between 405 and 535 kc/s shall use working frequencies chosen frome the following : 425, 454, 468 and 480 kc/s except as permitted by No. 418. In addition, ship stations may use 512 kc/s in Regions 1 and 3, and 448 kc/s in Region 2.

Reasons :

MOD

Consequential upon provision for the use of Class A2H emission - covered in amended Nos. 975 and 976.

USA/23(57)

MOD

1123

11. (1) Ship stations employing class Al or A2 emissions in the authorized bands between 405 and 535 kc/s shall use working frequencies chosen from the following : 425, 454, 468, end 480 and 512 kc/s, except as permitted by No. 418. In additiony-ship-stations-may-use-512-ke/s-in Regions-1-and-3y-and-448-ke/s-in-Region-2.

MOD 1124

(2) Coast stations are prohibited from transmitting on the working frequencies designated for the use of ship stations on a world-wide basis er-en-the working-frequency-designated-fer-the-use-ef-ship stations-in-the-Region-in-which-the-eeast-station is-situated.

UBA/23(57) MOD 1125

(cont.)

(3) In-Regions 1-and 3 The frequency 512 kc/s may be used by ship stations as a supplementary calling frequency when 500 kc/s is being used for distress.

Reasons :

To provide for the world-wide use of 512 kc/s as a supplementary calling frequency when 500 kc/s is being used for distress traffic. The use of 512 kc/s for this purpose at the present time is limited to Regions 1 and 3.

Background :

The Radio Regulations now provide for the use of 512 kc/s as a calling (and reply) frequency in Regions 1 and 3 when 500 kc/s is in use for distress traffic. This permissive use allows continuation of nondistress radio traffic between coast stations and ships not involved with the distress but who might cause harmful interference to 500 kc/s through its use for calling.

Region 2 was excluded from this additional provision for the calling use in 1959 because of the aeronautical mobile service operations on 512 kc/s. During the interim, the aeronautical use has been greatly reduced and should no longer be a bar to maritime mobile use of this frequency both for calling when 500 kc/s is occupied with distress traffic and for use as a ship working frequency.

This change to the Radio Regulations would make the use of ... 512 kc/s the same in all Regions, i.e., ship working and permissive supplementary calling uses.

The proposed revision would also delete the use of 448 kc/s as a ship working frequency in Region 2 and make it available for coast station assignment.

Increasing powers of coast stations in the band 415 - 535 kc/s have caused interference patterns not experienced when lower powers were used. Considering that ship working frequencies are adequate, the frequency 448 kc/s would provide the maximum benefit for coast station assignment. CAN/43(21)

1134 § 13.(1) Stations of the maritime mobile service open to public correspondence and using frequencies in the authorized bands between 405 and 535 kc/s shall, during their hours of service, remain on watch on 500 kc/s. This watch is obligatory / only for class A2 and A2H emissions.

Reasons :

MOD

To provide for the use of single sideband emissions on 500 kc/s.

F/12(76)

No. 1134 - Replace the present text by the following :

Stations of the maritime mobile service open to public correspondence and using frequencies in the authorized bands between 405 and 535 kHz shall, during their hours of service, remain on watch on 500 kHz. This watch is obligatory only for class A2 and A2H emissions.

Reasons :

See proposal No. F/12(71) relative to No. 974.

Proposed amendments concerning the classes of emission to be used on 2182 kHz have already been included in the proposals made under item 1 of the Agenda (see Document No. 8).

G/58(6)

sl3(1) Stations of the maritime mobile service open to public correspondence and using frequencies in the authorised bands between 405 and 535 kc/s shall, during their hours of service, remain on watch on 500 kc/s.

Reasons :

MOD

1134

Last sentence deleted consequential upon amendment to No. 974 and new No. 974A.

HOL/73(15) MOD

§ 13.(1) Stations of the maritime mobile service open to public correspondence and using frequencies in the authorized bands between 405 and 535 kc/s shall, during their hours of service, remain on watch on 500 kc/s. This watch is obligatory only for class A2 and A2H emissions.

Reasons :

1134

To permit the use of the classes of emission A2H and A3H on the distress and calling frequencies 500 kc/s and 2182 kc/s respectively.

The C.C.I.R. considers the emissions A2H and A3H to be as effective as A2 and A3 emissions for use as alarm, distress, urgency and safety signals.

1/35(25)

Š 13 (1) Stations of the maritime mobile service open to public correspondence and using frequencies in the authorized bands between 405 and 535 kc/s shall, during their hours of service, remain on watch on 500 kc/s. This watch is obligatory only for class A2 and A2H emissions.

Reasons :

MOD

1134

As a consequence of the modification introduced in No. 974 of Article No. 28 (Proposal No. 1/35(24).

USA/20(38)

MOD 1134

13.(1) Stations of the maritime mobile service open to public correspondence and using frequencies in the authorized bands between 405 and 535 kc/s shall, during their hours of service, remain on watch on 500 kc/s. This watch is obligatory only for class A2 and A2H emissions.

Reasons :

To provide for the permissive use of full carrier single sideband (SSB) emissions on the distress and calling frequencies 500 kc/s and 2182 kc/s for stations using SSB transmitting equipment. The C.C.I.R. has determined that the emissions A2H and A3H are as effective as A2 or A3 emissions for use as alarm, distress, urgency and safety signals. USA/20(38) E

(cont.)

Background :

Increasing use of single sideband (SSB) emission in the maritime mobile service requires that provision be made for SSB compatibility with existing double sideband (DSE) systems associated with the distress and safety uses of 500 kc/s and 2182 kc/s. The C.C.I.R. has carefully examined the technical aspects of the use of full carrier SSB emissions, A2H and A3H, and has found them to be compatible, including the use of the alarm signal. Either emission, A2 or A2H, A3 or A3H, may be used with equal effectiveness where A2 or A3 emissions are specified in the Radio Regulations for distress and safety uses. Proposals relating to

Article 32

-

Section IV. Additional Provisions Applicable

in Region 3 only

N° 1139 - 1144

Section IV. Additional Provisions Applicable in Region 3 only

- 1139 § 16. (1) The band 2088.5-2093.5 kc/s is the calling band for the maritime mobile service of radiotelegraphy in those parts of the bands between 1 605 and 2 850 kc/s in which radiotelegraphy is authorized.
- 1140 (2) Frequencies in the band 2088.5-2093.5 kc/s may be used for calls and replies.
- 1141 (3) Each coast station using the calling band 2088-5-2093-5 kc/s shall, as far as possible, maintain watch on this band during its working hours.
- 1142 (4) Coast stations which use frequencies in the band 2 088-5-2 093-5 kc/s for calling shall be able to use at least one other frequency in those parts of the bands between 1 605 and 2 850 kc/s in which the maritime mobile service of radiotelegraphy is authorized.
- 1143 (5) One of these frequencies is printed in heavy type in the List of Coast Stations to indicate that it is the normal working frequency of the station. Supplementary frequencies, if any, are shown in ordinary type.
- 1144 (6) Working frequencies of coast stations shall be chosen in such a manner as to avoid interference with other stations.

AUS/54(9)	SUP	Section IV., Additional provisions applicable in Region 3 only
	SUP	1139
	SUP	1140
	SUP	1141
	SUP	1142
	SUP	1143
	SUP	1144
	(MOD)	Section ¥ IV. Bands between 4000 and 27 500 kc/s
	(MOD)	Section VI V. Aeronautical Mobile Service

Reasons :

The 2 Mc/s maritime mobile radiotelegraph service is not required in Australia and since there are no assignments listed between 2088.5 and 2093.5 kc/s in the I.F.L. for coast stations in Region 3 it is believed that the service is also not required in other Region 3 countries. As the band 2065 -2107 kc/s will still remain allocated to the maritime mobile . service, the amendments proposed would not prohibit an Administration in Region 3 from utilising channels in the 2088.5 -2093.5 kc/s band for radiotelegraph calling purposes.

<i>3/90</i> (89)	MOD	1139	S16. (1) The band 2088.5 - 2093.5 kc/s is the calling and safety band for the maritime mobile service of radiotelegraphy in those parts of the bands between 1605 and 2850 kc/s in which radiotelegraphy is authorized.
J/90(90)	MOD	1140	(2) Frequencies in the band 2088.5 - 2093.5 kc/s may be used for calls, replies <u>and safety</u> . <u>These frequencies</u> <u>may also be used for messages preceded by the urgency</u> or safety signals and, if necessary, for distress messages.

Reasons :

It is requested that in Regions 2 and 3, in the bands between 1605 - 2850 kc/s, frequencies in the band between 2088.5 - 2093.5 kc/s should be designated as a safety frequency band in the radiotelegraphy maritime mobile service. (See Agenda Item 1, Document No. 84 and 7.2, Document No. 89).

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Proposals relating to

Article 32

Section V. Bands between 4000 and 27500 kc/s

A. General Provisions

N° 1145, 1146, 1148, 1149, 1151, 1155, 1156,

1157, 1158.

- 246 -

Section V. Bands between 4 000 and 27 500 kc/s

A. General Provisions

- 1145 § 17. (1) Mobile radiotelegraph stations equipped to operate in the bands specified in Nos. 1174, 1192 and 1196 shall employ only class A1 emission. However, other classes of emission are not precluded from the bands specified in No. 1192 provided that such emission can be contained within the normal working channels indicated in Section A of Appendix 15. Survival craft stations may use class A2 emissions in these bands (see Nos. 994 and 997).
- 1146 (2) Mobile stations equipped to operate in the frequency bands authorized to ships for wide-band telegraphy, facsimile and special transmission systems may use any class of emissions provided that such emissions can be contained within the wide-band channels indicated in Section A of Appendix 15. However, manual Morse and telephony are excluded.
- (3) Coast radiotelegraph stations operating in the maritime mobile exclusive bands between 4 000 and 27 500 kc/s shall not use Type 2 transmissions.
- 1148 (4) Coast radiotelegraph stations operating in the maritime mobile exclusive bands between 4 000 and 27 500 kc/s shall at no time use mean power in excess of the following :

1	Band	Maximum	mean	powe
4	Mc/s	5	kW	
6	Mc/s	5	kW	
8	Mc/s	10	kW	
12	Mc/s	. 15	kW	
16	Mc/s	15	kŴ	
22	Mc/s	15	kW	

- 1149 § 18. (1) Each of the bands reserved for ship radiotelegraph stations, except for the band 25 070-25 110 kc/s, shall be divided into four parts, beginning at the low frequency end :
- a) a band of working frequencies for ship stations using wide-band telegraphy, facsimile and special transmission systems;
- 1151 b) a band of working frequencies for the use of high traffic ship stations;
 - c) a band of calling frequencies for the use of all ship and aircraft stations entering into communication with stations of the maritime mobile service;
 - d) a band of working frequencies for the use of low traffic ship stations.
- 1154 (2) The band 25 070-25 110 kc/s, allocated to ship radiotelegraph stations, consists solely of working frequencies which may be assigned to ships of all kinds.

1155 § 19. For the purpose of this Section :

1152

1153

- a passenger ship is a vessel defined as such by the Convention for the Safety of Life at Sea;
- a cargo ship is any ship that is not a passenger ship as defined above.

Proposals relating to

- 247 -

Article 32

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Section V.

A. General Provisions

(continuation)

- 1156 § 20. (1) Stations installed on passenger ships shall use the high traffic band and whaling factory vessels, tankers above 40,000 tons gross and other cargo ships above 12,500 tons gross handling a large volume of traffic may also use this band (see No. 1151).
- 1157 (2) Stations installed on ships other than those mentioned in No. 1156 shall use the low traffic band (see No. 1153).
- 1158 (3) The arrangement of the frequencies in the ship radiotelegraph bands is illustrated graphically in Section A of Appendix 15.
- 1159 § 21. For the exchange of radiotelegraph communications with stations of the maritime mobile service, aircraft stations may utilize the frequencies of the bands allocated to that service for radiotelegraphy between 4 000 and 27 500 kc/s. When using these frequencies, aircraft stations shall comply with the provisions of this Section.

· · ·

F/10(58) azd F/10(59)

8) No. 1145, 1146 and 1158 Replace :

... "in section A of Appendix 15 by "in Appendix 15"

Reasons :

A consequence of the deletion of Appendix 15, Section B.

See proposal F/8(5) relative to No. 447 (Item 1 of the Agenda) Document No. 8).

F/9(56)

No. 1156 - Replace the existing text by the following :

Stations installed on passenger ships shall use the high traffic band. Stations installed on cargo ships may also use this band (see No.1151), if the administrations responsible for them consider that this is justified by their traffic volume.

Reasons :

MOD

It is desirable to leave it to the administrations to determine the categories of ships that may use the high traffic band, depending on the volume of their traffic and not on a criterion of tonnage.

G/77(40)

1145 B17.(1) Mobile radiotelegraph stations equipped to operate in the bands specified in Nos. 1174, 1192 and 1196 shall employ only class Al emission. However, other classes of emission are not precluded from the bands specified in No. 1192 provided that such emission can be contained within the normal working channels indicated in Appendix 15. Survival craft stations may use class A2 emissions in these bands (see Nos. 994 and 997).

Reasons :

MOD

Consequential upon the deletion of Section B, Appendix 15.

1146 (2) Mobile stations equipped to operate in the frequency bands authorized to ships for wide-band telegraphy, facsimile and special transmission systems may use any class of emissions provided that such emissions can be contained within the wideband channels indicated in Appendix 15. However, manual Morse and telephony are excluded, except for operational signals.

Reasons :

Consequential upon the deletion of Section B of Appendix 15.

Ref.

G/78 (92) MOD

(4) Coast radiotelegraph stations employing single channel class Al of Fl emission operating in the maritime mobile exclusive bands between 4000 and 27500 kc/s shall at no time use mean power in excess of the following :

Band	Maximum mean power
4 Mc/s	5 kW
6 Mc/s	5 kW
8 Mc/s	lO kW
12 Mc/s	15 kW
15 Mc/s	15 kW
22 Mc/s	15 kW
	· . *

Reasons :

ADD

1148

Consequential upon new 1148A - to differentiate between powers required for single-channel and multi-channel emissions.

G/78**(**92)

(5) Coast radiotelegraph stations employing multichannel telegraph emissions operating in the maritime mobile exclusive bands between 4000 and 27500 kc/s shall at no time use a mean power in excess of 2.5 kW per 500 c/s bandwidth.

Reasons :

To provide for maximum powers required in respect of multi-channel telegraph emissions.

G/77(40)

1149

1148A

\$18.(1) Each of the bands reserved for ship radiotelegraph stations, except for the band 25 070 - 25 110 kc/s, shall be divided into five parts, beginning at the low frequency end :

Reasons :

MOD

Consequential upon new No. 1150A - to provide for direct-printing telegraph systems (see Agenda Item 7.1, G/60(14), Document No. 60.

G/60(14)

1150A (aa) a band of working frequencies for ship stations using narrow-band direct-printing telegraph systems.

Reasons :

ADD

To provide for direct-printing telegraph systems (see also Agenda Item 3, to follow).

C/78 (9)

SUP 1155

1156

Reasons :

Consequential upon the amendment to No. 1156 - see Agenda Item 2.3 (G/56(2), Document No. 56).

0/56(2)

§ 20. (1) Stations installed on ships handling a large volume of traffic shall use the high traffic band at the discretion of the Administration controlling the ship station concerned (see No. 1151).

Reasons :

MOD

To permit Administrations to decide for themselves the ship stations that shall use this band.

At the Administrative Radio Conference, Atlantic City, 1947, a band of working frequencies in each of the ship telegraph bands was set aside for use by passenger ships and whaling factory vessels. The use of these bands was extended at the Administrative Radio Conference, Geneva, 1959, to include tankers above 40,000 gross tons and other cargo ships above 12,500 gross tons handling a large volume of traffic and they were renamed "high traffic" ship bands.

Since that date the amount of traffic dealt with has fallen considerably with the result that the bands are now lightly loaded. An analysis of the United Kingdom long distance service indicates that approximately five times as much traffic is handled in the "low traffic" bands as is handled in the "high traffic" bands, i.e. a ratio of 5 : 1.

In the "low traffic" bands there is a very uneven distribution of traffic between the assignable working frequencies in Group A and those in Group B. It would seem that all ships offer their frequency in Group A for the passing of traffic and only use the corresponding frequency in Group B when it is not possible to use the first choice.

Any relationship that there may have been between the gross tonnage of a ship and the traffic handled, no longer holds and it is thought that if any division between high and low traffic ships is still required it might well be left to Administrations to decide on whatever grounds they think fit. There is therefore no objection to tankers of 12,500 tons gross being included.

@/77(40)

(3) The arrangement of the frequencies in the ship radiotelegraph bands is illustrated graphically in Appendix 15.

Reasons :

1158

MOD

Consequential upon the deletion of Section B, Appendix 15. <u>Ref</u>.

USA/22(45)

MOD 1145 Paragraph 17 (1) Mobile radiotelegraph stations equipped to operate in the bands specified in Nos. 1174, 1192 and 1196 shall employ only class Al emission. However, other classes of emission are not precluded from the bands-specified in No. 1192 provided that such emission can be centained within the normal working channels indicated in Section A of Appendix 15. Survival craft stations may use class A2 emissions in these bands (see Nos. 994 and 997).

USA/27(62) ADD

Exceptionally, and subject to the provisions of Article No. 9, powers in excess of the limits specified in number 1148 may be authorized for coast radiotelegraph stations employing multi-channel telegraph emissions, provided a level of 2.5 kW P_D effective radiated power per intelligence channel is not exceeded.

<u>Reasons</u> :

1148A

To provide for powers required for the use of multi-channel emissions.

Background :

Number 1148 limits the maximum mean powers which may be used by coast radiotelegraph stations in bands between 4 and 27.5 Mc/s. Those power limits are considered as reasonable in relation to Al and single channel Fl emissions. However, certain telegraph emissions are now being used as a means of making more efficient use of the coast telegraph bands by employing bandwiths greater than that used for Al and single channel Fl. With such emissions, although the total power required may be greater than the maximum mean power limits specified in number 1148, the spectral power density expressed in watts per cycle per second may be, and normally is, less than that of Al and single channel Fl systems operating within the power ceilings of number 1148.

Specific provisions were made in number 72 of the Final Acts of the E.A.R.C., Geneva 1951, for making exceptions to the maximum power limitations of number 70 on an individual statiom basis. The 1959 Geneva Conference adopted as number 1148 the maximum power limitations of the E.A.R.C. number 70, but did not bring forward the provisions for making adjustments exceeding the maximum limits. At the time most stations were using Al or single channel Fl emission and the technology then in use did not require powers in excess of the limits shown in number 1148.

Number 1148A, as proposed, is a step forward in providing for emissions which will facilitate better utilization of the frequency bands allocated for use by coast radiotelegraph stations.

USA/22(46)

MOD 1149 Paragraph 18 (1) Each of the bands reserved for ship radio-telegraph stations, except for the band 25 070-25 110 kHz, shall be divided into <u>five</u> four parts, beginning at the low frequency end : NOC 1150

MOD 1151 b) a band of working frequencies for the use of high traffic ship stations for teleprinter and data transmission;

ADD 1151A <u>b bis</u>) a band of working frequencies for the use of high traffic ship stations for class Al emission manual telegraphy;

NOC 1152

NOC 1153

NOC 1154

11.6

USA/17(16)

MOD

Para. 20. (1) Stations installed on passenger ships shall-use-the-high-traffie-band-and whaling-factory-vesselsy-tankers-above-40,000 tens-grees-and-ether-carge-ships-above-12,500 tens-grees handling a large volume of traffic shall may-alse use this-band the high traffic band for class Al emission (see No. 1151A). For teleprinter and data transmission the band designated in No. 1151 for this purpose shall be used. (See Proposal No. USA/22(46), Document No. 22)

Reasons :

To permit additional types of vessels having a large volume of message traffic to use the high traffic bands, which are not now being fully utilized.

Background :

The present provisions of No. 1156 are believed to be unduly restrictive. Many types of ships which handle a telegraphic traffic volume as high or higher than that of ships presently authorized to use the high traffic bands under No. 1156 are restricted from these bands and must use the low traffic bands. The increased traffic in the low-traffic bands, together with the decreased passenger ship traffic in the high-traffic bands, has resulted in a traffic density unbalance. Although studies indicate that 6 or more times as many messages are handled on the low traffic frequencies, there are approximately '9 times as many frequencies in the low traffic bands. Nevertheless, USA/17(16) (contd.)

there is also disparity between the Group A and Group B low traffic frequencies with approximately 4 times the traffic being handled on Group A frequencies as on Group B, according to the study. As a result, more interference is experienced in the low traffic bands than in the high traffic bands and a shift of some vessels to high traffic frequencies would be desirable. In addition, equalizing the loading of the Group A and B frequencies is desirable.

Tonnage and other size criteria are no longer considered to be an accurate measure of radio traffic volume. Assignment of ships by administrations to appropriate bands based upon their actual volume of traffic is believed to be a superior way of balancing ship traffic loading.

USA/22(47)

MOD 1157 Stations installed on ships other than those mentioned in No. 1156 shall use the low traffic band when using class Al emission (see No. 1153). For teleprinter and data transmission the band designated in No. 1151 for this purpose shall be used.

HOL/72(10)

	•	
MOD	1149	\$18.(1) Each of the bands reserved for ship radiotelegraph stations, except for the band 25070-25110 kc/s, shall be divided into five four parts, beginning at the low frequency end :
NOC	1150 [.]	
ADD	1150 A	a) (bis) <u>a band of working frequencies for</u> <u>ship stations using teleprinter</u> <u>and data transmission systems</u> ;
NOC	1151 .	
NOC	1152	
NOC	1153	
Reasons :		

See proposals relating to No. 451A (HOL/72(9)) and Agenda Item 7.1 (Document No. 75).

See also proposals relating to Agenda Items 1 (Document No. 70), 2.3 (HOL/71(7), Document No. 71)

			•
HOL/71(7)	SUP	1155	
	MOD	1156	S20. (1) Ship stations shall use the high traffic band (see No. 1151) or the low traffic band (see No. 1153) according to traffic requirements.
• .	MOD	1157	(2) Each administration shall itself deter- mine the rules according to which ship stations under its jurisdiction are to use the high traffic band or the low traffic band.

Reasons :

To permit ships of any category having a large volume of traffic to use the high traffic bands, which are not now being fully utilized.

I/32(11)

Ref.

Para. 20 (1) Stations installed on passengers ships shall use the high traffic band and any other ship handling a large volume of traffic may also be authorized by Administrations to use this band.

Reasons :

MOD 1156

The Italian Administration feels that the criterion adopted up to now to assume ship tonnage as an index of traffic volume does not correspond to reality and therefore it does not allow a rational traffic distribution between the high traffic and the low traffic bands.

It is therefore deemed more convenient to leave to individual Administrations the responsibility to appreciate which ships, other than passengers ships, may be admitted to use the high traffic band.

J/85(33)

MOD

1156

\$ 20 (1) Stations installed on passenger ships shall use the high traffic band. Stations on cargo ships handling a large volume of traffic and authorized by the Administration may also use this band (see No. 1151).

Reasons :

It is considered proper to place the standard for classification of ship stations (except passenger ships) using the high traffic band, not on tonnage, but on volume traffic handled and to leave the decision of standards to the Administration. POL/82(2)

MOD 1156

8 20.(1) Stations installed on passenger ships shall use the high traffic band and-whaling factory-vesselsy-tankers-above-40,000-tens gress-and-ether-earge-ships-above-12,500-tens gress-handling-a-large-velume-of-traffic. Factory Vessels, fisheries depot ships and other ships handling large volume of traffic may also use this band at the Administration's discretion (see No. 1151).

Reasons :

In practice the amount of traffic handled by a ship station is not always depending on ship's tonnage. Therefore, among the high traffic ship stations should be listed :

1. Passenger ships.

2. Fisheries depot ships.

3. Factory vessels.

4. Any other ships at the Administration's discretion.

The amount of traffic handled depends on the means of ship's exploitation and individual Administrations are well aware of the amount of correspondence passed by the particular ship station so it should be left to the Administration's discretion what traffic category is to be granted to the particular station. The proposed text extends the existing flexibility concerning the cargo ships above 12,500 tons gross to all ships pending the Administration's decision.

The listing here of fisheries depot ships and factory vessels (usually acting also as depot ships) is prompted by the tendency to separate the ever growing fisheries traffic into separate bands.

The specific characteristics of this traffic are causing the long periods of frequency occupation, the fact producing difficulties to other ships in exchange of their correspondence.

RFA/3(1)

MOD 1156 § 20.(1) Each Administration shall determine for its sphere of competence which ship stations handling a large volume of traffic may use the high traffic band (see No. 1151).

Reasons:

It is considered inappropriate to classify the ship stations as in No. 1156 because many passenger ships as well as whaling factory vessels and tankers above 40,000 tons gross or cargo ships above 12,500 tons gross do not have to handle as much traffic on high frequencies as some ships which do not fall into this category.

CAH/40(30)

- The possible use of the high traffic bands by tankers of 12 500 tons gross

Considering that these tankers need reliable ship-to-shore communications and taking into account the traffic loading on these bands, Canada is prepared to support the amendment of the pertinent regulations to permit the use of these bands by tankers of 12.500 tons gross.

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Proposals relating to

Article 32

Section V.

C. Traffic

N° 1173

D. Assignment of Frequencies to Mobile Stations

1. Calling Frequencies of Ship Stations

N° 1175 and 1176

÷

C. Traffic

1173 (3) Working frequencies assigned to coast stations using the bands between 4 000 and 27 500 kc/s are included within the following band limits:

4 238	to	4 36	8	kc/s				
6 357	to	6 52	5	kc/s				
8 476	to	8 74	5	kc/s				
12714	to	13 13	0	kc/s				
16 952	to	17 29	0	kc/s				
22 400	to	22 65	0	kc/s	(see	No.	45 3 .	1)

D. Assignment of Frequencies to Mobile Stations

1. Calling Frequencies of Ship Stations

1174 § 29. (1) The calling frequencies assigned to ship stations are included within the following band limits:

4 177	to	4 187	kc/s
6 265.5	tó	6 280 5	kc/s
8 354	to	8 374	k¢/s
12 531	to	12 561	kc/s
16 708	to	16 748	kc/s
22 220	to	22 270	kc/s

- 1175 (2) In the band 4 177 to 4 187 kc/s, the calling frequencies shall be uniformly distributed. They shall be preferably spaced 1 kc/s apart. The extreme frequencies assignable are 4 178 and 4 186 kc/s as indicated in Section A of Appendix 15.
- 1176 (3) In each of the other maritime mobile service bands between 4 000 and 18 000 kc/s, the calling frequencies shall be in harmonic relationship with those in the band 4 177 to 4 187 kc/s. In the band 22 220 to 22 270 kc/s, the preferable spacing of calling frequencies is 5 kc/s.

F/8(21) Replace the table in this number by the following : No. 1173 4361 kc/s 4231 ÷ 6346 6514 kc/s ----8462 8731 kc/s -- 13109 kc/s 12693 - 17262 kc/s 16924 - 22620 kc/s (see No. 453-1) 22370 Reasons : See Proposal No. F/8(11) relating to No. 453. **G/77(40)** SUP 1173 Reasons : Already covered by No. 453 (G/77(39) above). HOL/72(10)MOD 1173 (3) Working frequencies assigned to coast stations using the bands between 4000 and 27500 kc/s are included within the following band limits : 4238-40--4368 <u>4361</u> kc/s 4231 to 6357-+0--6525 6346 \mathbf{to} 6514 kc/s 8476-40-8745 8730 kc/s 8461 \mathbf{to} 12714-te-13130 12693 to 13109 kc/s 16952-to-17290 16924 to 17262 kc/s 22400-+0-22650-2378 to 22628 kc/s (see No. 453.1) Reasons See proposal relating to No. 453 (HOL/72(9)). I/33(20) As a consequence of modifications introduced in the sub-division of radiotelegraphy bands between 4000 and 27 500 kc/s, modify Article 32 as follows: MOD 1173 (3) Working frequencies assigned to coast stations using the bands between 4000 and 27 500 kc/s are included within the following band limits : 4231 -4364.5 kc/s 6346 -6518 kc/s 8461 -8735 kc/s 12 692 - 13 112.4 kc/s 16 922 - 17 261.9 kc/s

22 368 - 22 625.4 kc/s. (see No. 453.1)

- 261 -

<u>Ref</u>.

F/10(59)

MOD 1175 <u>Replace</u>: "in section A of Appendix 15"

<u>by</u>

."in Appendix 15"

Reasons :

A consequence of the deletion of Appendix 15,

Section B.

G/77(40)

(2) In the band 4177 to 4187 kc/s, the calling frequencies shall be uniformly distributed. They shall be preferably spaced 0.5 kc/s apart. The extreme frequencies assignable are 4178 and 4186 kc/s as indicated in Appendix 15.

Reasons :

MOD

1175

a) Consequential upon the delction of Section B of Appendix 15, and

b) to improve distribution over the band.

MOD 1176

(3) In each of the other maritime mobile service bands between 4000 and 18 000 kc/s, the calling frequencies shall be in harmonic relationship with those in the band 4177 to 4187 kc/s. In the band 22 220 to 22 270 kc/s, the preferable spacing of calling frequencies is 2.5 kc/s.

Reasons :

MOD

To improve the distribution on the 22 Mc/s band.

HOL/72(10)

(2) In the band 4177 to 4187 kc/s, the calling frequencies shall be uniformly distributed. They shall be preferably spaced 0.5 kc/s l-ke/e apart. The extreme frequencies assignable are 4178 and 4186 kc/s as indicated in Section A of Appendix 15.

MOD 1176

1175

(3) In each of the other maritime mobile service bands between 4000 and 18000 kc/s, the calling frequencies shall be in harmonic relationship with those in the band 4177 to 4187 kc/s. In the band 22220 to 22270 kc/s, the preferable spacing of calling frequencies is 5-ke/s 2.5 kc/s.

Reasons :

The reduced frequency spacing will increase the number of calling frequencies in each band.

Proposals relating to

Article 32

Section V.

D. Assignment of Frequencies to Mobile Stations

2. Working Frequencies of Mobile Stations

N° 1180 - 1189, 1191 - 1193, 1196, 1197.

2. Working Frequencies of Mobile Stations

a) Channel Spacing and Assignment of Frequencies

- 1180 § 32. In all bands the working frequencies for ship stations equipped to use wide-band telegraphy, facsimile and special transmission systems are spaced 4 kc/s apart. The frequencies assignable are shown in Section A of Appendix 15.
- **1181** § 33. (1) The working frequencies for high traffic ships in the band 4 160 to 4 177 kc/s are so spaced as to provide channels 1.5 kc/s wide, the extreme frequencies assignable being 4 161 and 4 176 kc/s as shown in Section A of Appendix 15.
- 1182 (2) In the band 4 187 to 4 238 kc/s, the working frequencies of low traffic ships are spaced 0.5 kc/s apart, the extreme frequencies assignable being 4 188 and 4 236.5 kc/s as indicated in Section A of Appendix 15.
- 1183 § 34. The working frequencies assigned to each ship station in the 6. 8, 12 and 16 Mc/s band shall be harmonically related to those assigned in the 4 Mc/s band, except as provided in No. 1180.
- 1184 § 35. In case of the 22 Mc/s band, which is not in harmonic relationship with the other bands, the frequencies are spaced as follows, as shown in Section A of Appendix 15:
- 1185

a) in the high traffic band, the working frequencies are spaced 6 kc/s apart, the extreme frequencies assignable being 22 151 and 22 217 kc/s;

- 11**8**6
- b) in the low traffic band, the working frequencies are spaced 2.5 kc/s apart, the extreme frequencies assignable being 22 272.5 and 22 395 kc/s.
- 1187 § 36. In the 25 Mc/s band, the frequency separation shall be 3 kc/s. The extreme frequencies which may be assigned are, as shown in Section A of Appendix 15: 25 075 and 25 105 kc/s.

b) Working Frequencies for Ship Stations using Wide-Band Telegraphy, Facsimile and Special Transmission Systems

1188 § 37. The working frequencies assigned to ship stations using wide-band telegraphy, facsimile and special transmission systems are included within the following band limits :

4 140	to	4 160	kc/s	
•		6 240		
8 280	to	8-3 2 0	kc/s	
12 421	to	12 471	kc/s	
16 562	to	16 622	kc/s	
22 100	to	22 148	kc/s	

1189 § 38. (1) Each administration shall assign to each ship station under its jurisdiction and employing wide-band telegraphy, facsimile and special transmission systems, one or more series of working frequencies designated in Section A of Appendix 15. The total number of series assigned to each ship shall be determined by traffic requirements. Proposals relating to

Article 32

Section V.

D. Assignment of Frequencies to Mobile Stations

2. Working Frequencies of Mobile Stations

(Continuation)

(2) When ship stations employing wide-band telegraphy, facsimile and special transmission systems are assigned less than the total number of working frequencies in a band, the administration concerned shall assign working frequencies to such ships in accordance with an orderly system of rotation that will ensure approximately the same number of assignments on any one working frequency.

(3) However, within the limits of the bands given in No. 1188 administrations may, to meet the needs of specific systems, assign frequencies in a different manner from that shown in Section A of Appendix 15. Nevertheless, administrations shall take into account, as far as possible, the provisions of Section A of Appendix 15 concerning channelling and 4 kc/s spacing.

c) Working Frequencies for High Traffic Ships

1192 § 39. The working frequencies assigned to high traffic ships are included within the following band limits :

4 160	to	4 177	kc/s
6 240	to	6 265-5	kc/s
8 320	to	8 354	kc/s
12 471	to	12:531	kc/s
16 622	to	16 708	kc/s
22 148	to	22 220	kc/s

1193 § 40. (1) Each administration shall assign to each high traffic ship within its jurisdiction two or more series of working frequencies shown in Section A of Appendix 15 for vessels of this class. The total number of series assigned to each ship should be determined by the anticipated traffic volume.

d) Working Frequencies for Low Traffic Ships

1196 § 42. Working frequencies assigned to low traffic ships shall be included within the following band limits :

4 187	to	4 238	kc/s
6 280-5	to	6 357	kc/s
8 374	to	8 476	kc/s
12 561	to	12714	kc/s
16 748	to	16 952	kc/s
22 270	to	22 400	kc/s

1197 § 43. (1) In each of the low traffic bands, the assignable frequencies are divided into two equal Groups A and B, Group A comprising the frequencies in the lower half of the band and Group B the frequencies in the upper half (see Section A of Appendix 15).

1190

F/10(59)

Ref.

MOD 1180 and 1181

In each of these numbers replace :

"in Section A of Appendix 15"

by

"in Appendix 15".

Reasons :

A consequence of the deletion of Appendix 15-B.

F/8(22)

No. 1182 Replace the present text by the following :

(2) In the band 4187 - 4231 kc/s, the working frequencies of low traffic ships are spaced 0.5 kc/s apart, the extreme frequencies assignable being 4188 and 4229.5 kc/s as indicated in Appendix 15. Reasons :

See Proposal No. F/8(10) relating to No. 452.

F/8(23) No. 1186 Replace :

22 395 kHz by : 22 365 kc/s.

Reasons :

MOD

See proposal relating to No. 452.

F/10(59)

1184, 1187, 1189, 1191, 1193 and 1197

In each of these numbers replace :

"in Section A of Appendix 15"

by

"in Appendix 15"

Reasons :

A consequence of the deletion of Appendix 15-B.

F/8(24)

No. 1196 Replace the present table by the following :

4187		ובכול	ko/s
· · - •			
6280.5		6346	kc/s
8374	_	8462	kc/s
12561	-	12693	kc/s
16748	-	16924	ke/s
22270	·	22370	kc/s

Reasons :

1

See Proposal No. F/8(10) relating to No. 452.

G/60(15)

\$ 31 (bis) The working frequencies for ship stations equipped to use narrow-band directprinting telegraph systems are so spaced to provide channels 500 c/s wide. The frequencies assignable are shown in Appendix 15.

Reasons :

1179A

1180

1181

1182

ADD

To provide for direct-printing telegraph systems (see also Agenda Item 3, to follow).

G/77(40)

\$32. In all bands the working frequencies for ship stations equipped to use wide-band telegraphy, facsimile and special transmission systems are spaced 4 kc/s apart. The frequencies assignable are shown in Appendix 15.

Consequential upon deletion of Section B of Appendix 15.

MOD

Reasons :

MOD

\$33.(1) The working frequencies for high traffic ships in the band 4170 to 4177 kc/s are so spaced as to provide channels 0.5 kc/s wide, the extreme frequencies assignable being 4171 band 4176.5 kc/s as shown in Appendix 15.

Reasons :

Consequential upon the amendment of Appendix 15, and to improve distribution over the band.

MOD

(2) In the band 4187 to 4231 kc/s, the working frequencies of low traffic ships are spaced 0.5 kc/s apart, the extreme frequencies assignable being 4188 and 4229.5 kc/s as indicated in Appendix 15.

<u>Reasons</u> :

Consequential upon deletion of Section B of Appendix 15, and to provide additional coast station radiotelephone channels.

G/77(40) (Contd.)

MOD 1183

834. The working frequencies assigned to each ship station in the 6, 8, 12 and 16 Mo/s band shall be harmonically related to those assigned in the 4 Mo/s band, except as provided in Nos. 1179A and 1180.

Reasons :

To provide for the use of non-harmonically related frequencies in the bands provided for direct printing telegraph services (see Agenda Item 7.1, G/60(15), Document No. 60).

MOD

1184

1185

1186

1187

\$35. In case of the 22 Mc/s band, which is not in harmonic relationship with the other bands, the frequencies are spaced as follows, as shown in Appendix 15.

Reasons :

Consequential upon deletion of Section B of Appendix 15.

MOD

(a) In the high traffic band, the working frequencies are spaced 2.5 kc/s apart, the extreme frequencies assignable being 22 172.5 and 22 220 kc/s.

Reasons :

Consequential upon extension of coast station telephony band. (See amended Nos. 448 and 452, G/77(39) above).

MOD

(b) In the low traffic band, the working frequencies are spaced 2.5 kc/s apart, the extreme frequencies assignable being 22 272.5 and 22 365 kc/s.

Reasons :

Consequential upon amendment of No. 452,

MOD

§36. In the 25 Mc/s band, the frequencies are spaced 2.5 kc/s apart, the extreme frequencies assignable being 25 075 and 25 105 kc/s, as shown in Appendix 15.

Reasons :

To provide additional channels, and consequential upon the deletion of Section B, Appendix 15.

G/77(40) (contd.)

MOD

1189

838.(1) Each administration shall assign to each ship station under its jurisdiction and employing wide-band telegraphy, facsimile and special transmission systems, one or more series of working frequencies designated in Appendix 15. The total number of series assigned to each ship shall be determined by traffic requirements.

<u>Reasons</u> :	Consequential upon deletion of Section B of Appendix 15.	
MOD	(3) However, within the limits of the bands given in No. 1188 administrations may, to meet the needs of specific systems, assign frequencies in a different manner from that shown in Appendix 15. Nevertheless, adminis- trations shall take into account, as far as possible, the provisions of Appendix 15 concerning channelling and 4 kc/s spacing.	· ·
Reasons :		
	Consequential upon deletion of Section B, Appendix 15.	

MOD 1192

839. The working frequencies assigned to high traffic ships are included within the following band limits :

.4	170	to	4	1 7 7	kc/s
				265.5	kc/s
8	330	to	8	354	kc/s
12	491	to	12	531	kc/s
16	642	to	16	708	kc/s
2 2	168	to	22	220	kc/s.

Reasons :

a) To provide channels for direct-printing telegraph systems (Agenda Item 7.1, Document No. 60), and

b) Consequential upon the revision of channel spacing (see No. 1181 above).

MOD

1193

\$40.(1) Each administration shall assign to each high traffic ship within its jurisdiction two or more series of working frequencies shown in Appendix 15 for vessels of this class. The total number of series assigned to each ship should be determined by the anticipated traffic volume.

Reasons :

Consequential upon the deletion of Section B of Appendix 15.

0/60(16)

ADD 1191A

The working frequencies assigned to ships for narrow-band direct-printing telegraph systems are included within the following band limits :

> 4160 to 4170 kc/s 6240 to 6250 kc/s 8320 to 8330 kc/s 12471 to 12491 kc/s 16622 to 16642 kc/s 22148 to 22168 kc/s

ADD 119

1191B (2) Assignments shall be made in accordance with the channel spacing given in Appendix 15.

Reasons :

To provide for the use, and assignment, of frequencies for narrow-band direct-printing telegraph services (see also Agenda Item 3, to follow).

G/77(40)

MOD

1196

842. Working frequencies assigned to low traffic ships shall be included within the following band limits :

4.	187	to	4	231	kc/s
6	280.5	to	. 6	346.5	kc/s
8	374	to	8	462	kc/s
12	561	to	12.	693	kc/s
16	748	to	16	924	kc/s
22	270	to	22	370	kc/s

Reasons :

To provide coast station radiotelegraph frequencies to replace those allocated to coast station radiotelephone services (see proposals for Appendix 17, G/77(38) above).

MOD 1197

843.(1) In each of the low traffic bands, the assignable frequencies are divided into two equal Groups A and B, Group A comprising the frequencies in the lower half of the band and Group B the frequencies in the upper half (see Appendix 15).

Reasons :

Consequential upon deletion of Section B of Appendix 15.

HOL/72(10)

MOD

§33.(1) The working frequencies for high traffic ships in the band 4160 4170.5 to 4177 kc/s are so spaced as to provide channels 1.5 0.5 kc/s wide, the extreme frequencies assignable being 4161 4171 and 4176 kc/s as shown in Section A of Appendix 15.

Reasons :

See proposals relating to No. 452 (HOL/72(9)) and Agenda Item 7.1 (Document No. 75).

MOD 1182

1185

1186

1187

(2) In the band 4187 to 4238 4231 kc/s, the working frequencies of low traffic ships are spaced 0.5 kc/s apart, the extreme frequencies assignable being 4188 and 4236.5 4229.5 kc/s as indicated in Section A of Appendix 15.

Reasons :

See proposal relating to No. 452 (HOL/72(9)).

a)

MOD

in the high traffic band, the working frequencies are spaced 6 <u>2.5</u> kc/s apart, the extreme frequencies assignable being <u>22151</u> <u>22192</u> and <u>22217</u> kc/s.

Reasons :

See proposals relating to No. 452 (HOL/72(9)) and Agenda Item 7.1 (Document No. 75).

MOD

b) in the low traffic band, the working frequencies are spaced 2.5 kc/s apart, the extreme frequencies assignable being 22272.5 and 22395 22375 kc/s.

Reasons :

See proposal relating to No. 452 (HOL/72(9)).

MOD

\$36. In the 25 Mc/s band, the frequency separation shall be 3 2.5 kc/s. The extreme frequencies which may be assigned are, as shown in Section A of Appendix 15 : 25075 and 25105 kc/s.

Reasons :

The reduced frequency spacing will increase the number of frequencies.

HOL/72(10) (contd.)

\$37. The working frequencies assigned to ship stations using wide-band telegraphy, facsimile and special transmission systems are included within the following band limits :

4140-to4160	4144	to	4164	kc/s
6211-tè6240	6215	to	6244	kc/s
8280-408320	8288	to	8327.5	kc/s
12421-40-12471	12434	to	12484	kc/s
16562-+0-16622	16578	to	16638	kc/s
22100 to 22148 kc/s	•			

Reasons :

MOD

1188

	See propo	sal relating to No. 451 (HOL/72(9)).
ADD		b) (bis) <u>Working Frequencies for Ship</u> <u>Stations using Teleprinter and</u> <u>Data Transmission Systems</u> .
ADD	1191 A	\$38(bis) The Working frequencies assigned to ship stations using teleprinter and data transmission systems are included within the following band limits :
		$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
ADD	1191 B	\$38(ter)(1) Each administration shall assign to each ship station under its jurisdiction and employing teleprinter and data transmission systems, one or more series of working frequencies designated in Section A of Appendix 15. The total number of series assigned to each ship shall be determined by traffic requirements.
ADD	1191 C	(2) When ship stations employing teleprinter and data transmission systems are assigned less than the total number of working frequencies in a band, the adminis- tration concerned shall assign working frequencies to such ships in accordance with an orderly system of rotation that will ensure approximately the same number of assignments on any one working frequency.

Reasons :

See proposals relating to Nos. 449, 451 A (HOL/72(9)) and Agenda Item 7.1 (Document No. 75).

HOL/72(10) (contd.)

1192

839. The working frequencies assigned to high traffic ships are included within the following band limits :

4160	4170.5	to	4177	kc/s
6240	6255.75	to	6265.5	kc/s
8320	8341	to	8354	kc/s
12471	12511.5	to	12531	kc/s
16622	16682	to	16708	kc/s
22148	22191	to	22220	kc/s

Reasons :

See proposals relating to No. 452 (HOL/72(9)) and Agenda Item 7.1 (Document No. 75).

MOD	1196	\$42. Working frequencies assigned to low
	-	traffic ships shall be included within the
		following hand limits :

4187	to	4238	4231	kc/s
6280	.5 t	0 6357	6346	kc/s
8374	\mathbf{to}	8476	8461	kc/s
12561	to	12714	12693	kc/s
16748	to	16952	16924	kc/s
22270	to	2 2 4 00	22378	kc/s

Reasons :

See proposal relating to No. 452 (HOL/72(9)).

1/33(20)

MOD 1181 Para. 33. (1) The working frequencies for manual telegraphy for high_traffic ships in the band 4168 to 4177 kc/s are so spaced as to provide channels 0.75 kc/s wide, the extreme frequencies assignable being 4168.5 and 4176 kc/s as shown in Section A of Appendix 15. MOD · 1182 (2) In the band 4187 to 4231 kc/s, the working frequencies of low traffic ships are spaced 0.5 kc/s apart, the extreme frequencies assignable being 4188 and 4229.5 kc/s as indicated in Section A of Appendix 15. MOD 1185 a) in the high traffic band, the working frequencies are spaced 3 kc/s apart, the extreme frequencies assignable being 22 187 and 22 217 kc/s; 1186 MOD in the low traffic band, the working freb) quencies are spaced 2.5 kc/s apart, the extreme frequencies assignable being 22 272.5 and 22 365 kc/s.

I/33(20) (contd.) Para. 39. The working frequencies assigned to high traffic ships for manual telegraphy are included within the following band limits :

1			
4168	-	4177	kc/s
6252		6265.5	kc/s
8336	-	8354	kc/s
12 504	~	12 531	kc/s
16 672	-	16 708	kc/s
22 185	-	22 220	kc/s

MOD 1196

MOD

1192

Para. 42. The working frequencies assigned to low traffic ships shall be included within the following band limits :

4187	-	4231	kc/s
6280.5	-	6346	kc/s
8374	-	8461	kc/s
12 561	.	12.692	kc/s
16 748	-	16 922	kc/s
22 270	-	22 368	kc/s

USA/22(48)

MOD 1192 Paragraph 39 The working frequencies assigned to high traffic ships for teleprinter and data transmission are included within the following band limits :

to	4168.125	4177	kc/s
to	6252.1975	6265.5	kc/s
to	8336.25	8354	kc/s
tc	12504.375	12531	kc/s
to	16672.5	16708	kc/s
to	22185.5	55550	ko ∦s
	to to tc to	a contraction of the second	to <u>6252.1975</u> 6265.5 to <u>8336.25</u> 8 354 tc 12504.375 12531 to <u>16672.5</u> 16708

ADD <u>1192A</u> Paragraph <u>39</u> bis) The working frequencies assigned to high traffic ships for manual telegraphy are included within the following band limits :

4168.125	to	4177	ko/s
6252.1875	to	6265.5	ko/s
8336.25	to	8354	ko/s
12504.375	to	12531	ko/s
16672.5	to	16708	ko/s
22185.5	to	22220	ko/s

			(After No.]	.206)
USA/17(23)	ADD		(g) Frequer	ncies for Ocean Data Stations
	ADD	<u>12064</u>	Para. 45(bis)	The frequencies assigned to ocean data and ocean data telecommand stations using telegraphy systems are included within the following band limits :
				$\frac{4136.5}{6207.5} = \frac{4140}{6211} \text{ kc/s}$ $\frac{6207.5}{8276.5} = \frac{6211}{8280} \text{ kc/s}$ $\frac{12417.5}{16558.5} = \frac{12421}{16562} \text{ kc/s}$ $\frac{22096.5}{22100} = \frac{22100}{8} \text{ kc/s}$
	ADD	<u>1206B</u>	<u>Para. 45(ter)</u>	(1) Each administration may assign to each ocean data and ocean data
				telecommand station under its jurisdiction and employing a telegraphy system, one or more of the assignable frequencies designated in Section C of
				Appendix 15.
	ADD	<u>12060</u>		(2) However, within the limits of the bands given in No. 1206A, admin- istrations may assign frequencies in a different manner from that shown in Section C of Appendix 15. Nevertheless, administrations shall take into account, as far as possible, the provisions of Section C of Appendix 15 concerning channelling and 300 c/s spacing.
				· · · ·

Reasons :

Ref.

To accommodate requirements for oceanographic communications in the exclusive HF maritime mobile bands.

Background :

The capability of the sea to serve mankind in many ways has created diverse enterprises whose activities are of necessity marine oriented and therefore highly vulnerable to the physical changes which characterize the ocean. As a consequence there is an urgent need to describe and predict the future state of the environment so that activities taking place therein can be conducted safely and efficiently. The world oceans constitute a sparse data area which has handicapped man's attempt to understand more fully and thereby to predict more accurately the processes occurring at the air-sea interface. One of the most promising solutions to this distressing dilemma is the deployment of unmanned automatic observational stations at sea to acquire routinely this vital meteorological and oceanographic data on a real-time basis. In view of the interaction between the atmosphere and the ocean, stations now being planned will be equipped with meteorological and oceanographic sensors. This is essential since the state of surface and immediate sub-surface of the oceans is linked directly to the action of the overlying atmosphere.

The maritime industry, as an important element in national and international commerce, has a heavy capital investment in the Merchant Marine. This investment is subjected annually to significant financial losses due to ship damage caused by storms at sea. It is estimated that the average dollar costs to the world's ocean shipping from weather damage is in the order of \$156 million a year. The importance of warning and forecast services to oceanic shipping has been recognized by the World Meteorological Organization and the Safety of Life at Sea Convention (1960) by allocating responsibility to various nations for the provision of meteorological and oceanographic services over the ocean areas assigned.

Off-shore oil and sea mining activity has emerged from its embryonic stages and is now being conducted in an everincreasing tempo on the Continental Shelf. The nature of the complex operations associated with such exploitation of the sea is extremely sensitive to environmental changes particular y at the air-sea interface. It is once more apparent that operational safety and efficiency of this newly-emerging sea industry is dependent upon the availability of detailed meteorological and oceanographic information.

Commercial fishing fleets are constantly ranging the high seas in pursuit of lucrative fisheries. Operating over remote oceanic areas in ships having minimum sea-keeping capabilities in heavy weather makes this group extremely dependent upon warning and forecast services. In addition studies now being conducted indicate that certain relationships may exist between ocean conditions and the concentration of catchable fish. Consequently the provision of meteorological and oceanographic information to these fleets not only ensures a high degree of operational safety but also has the potential of reducing the cost of fishing as a result of more productive employment of time spent at sea. The resultant economic advantages to producers and consumers of this increasingly important food source would be quite significant.

The coastal belt of most maritime nations normally contains vast industrial complexes as well as one of such countries' most valuable resources - their coastline. Potential damages from coastal storms will undoubtedly increase significantly in the future as development of coastal areas proceeds. To ensure the adoption of the most rational preventative programme of adjustment to the marine environment, climatological data will be required for long-range planning purposes as well as routine warnings and forecasts of storm surges, abnormal tides and damaging surf conditions.

The lack of global meteorological data, particularly over ocean areas, represents one of the greatest obstacles to the improvement of weather forecasting capability throughout the world. The availability of such data from ocean data stations will not only result in more accurate weather forecasts for maritime nations but because what occurs in the atmosphere over one nation affects the atmosphere of adjacent nations, a significant improvement in weather forecasts will accrue ' equally as well to inland nations.

There thus exists an urgent need for ocean data stations to provide those basic environmental observations which will permit administrations to provide essential environmental services which are responsive to their various needs.

The matter of frequency provision for ocean data communications in the HF bands has been under consideration for some time. It appears most appropriate to consider the prospects of providing frequency support for these communications from within the HF maritime mobile frequency allocations, particularly as ocean data stations are to be located at sea for the purpose of transmitting data which are essential to programmes which primarily serve marine interests.

In connection with No. 1356, (see Proposal No. USA/16(9), Document No. 16), the single sideband working frequencies given in Section B of Appendix 15 for ship radiotelephone stations were carved out of the bands formerly available for ship radiotelegraph stations at Geneva 1959, for the express purpose of encouraging the use of radiotelephone single sideband operation.

In the intervening period since 1959, single sideband operation has been encouraged under the provisions of No. 1356. A review of the International Frequency List indicates that single sideband operation has been introduced extensively within the ship stations telephony and coast stations telephony subdivided categories of the bands exclusively allocated to the maritime mobile service between 4000 and 27 500 kc/s under the provisions of Appendix 17.

As No. 1356 has already accomplished its intended purpose to a considerable degree and its need therefore has been reduced, it appears that a portion of the allotment in Appendix 15, Section B, for radiotelephone single sideband operations might well be made available at this time for other operations serving maritime interests. This is considered to be particularly appropriate inasmuch as the number of available ship and coast radiotelephone channels are effectively doubled under the provision of Appendix 17 as double sideband operation is converted to single sideband operation.

It is considered that the foreseeable HF needs of ocean data communications could be accommodated within a minimum of 3.5 kc/s of spectrum space in each of the 4, 6, 8, 12, 16 and 22 Mc/s bands.

This proposal would permit the foregoing needs to be satisfied from a portion of the maritime mobile allotment presently contained in Section B of Appendix 15.

It is recognized there does not exist at this time an international agreement on the precise technical system to be used by administrations in providing essential environmental services responsive to their needs. Accordingly, this proposal subdivides each 3.5kc/s allotment into 10 assignable frequencies spaced 300 c/s apart and additionally, contains provisions for assigning frequencies in a different manner within the limits of the 3.5kc/s allotment.

Plans for an ocean data system to meet national requirements are being developed within the United States. It is understood that other administrations are also proceeding so that, in the aggregate, these will serve as a basis for formulating an agreed international system.

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Proposals relating to

Article 33

General Radiotelephone Procedure

in the Maritime Mobile Service

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Section I. General Provisions N° 1210, 1215 and 1216

Section II. Preliminary Operations Nº 1219

Section I. General Provisions

282

- 1209 § 1. (1) The procedure detailed in this Article is applicable to radiotelephone stations of the maritime mobile service, except in cases of distress, urgency or safety, to which the provisions of Article 36 are applicable.
- 1210 (2) Aircraft stations may enter into radiotelephone communication with stations of the maritime mobile service on frequencies allocated to that service for radiotelephony. They shall then comply with the provisions of this Article and of Article 27.
- 1215 (2) Radiotelephone stations of the maritime mobile service should, as far as possible, be equipped with devices for instantaneous switching from transmission to reception and vice versa. This equipment is necessary for all stations participating in communication between ships or aircraft and subscribers of the land telephone system.
- 1216 § 5. Stations of the maritime mobile service equipped for radiotelephony may transmit and receive radiotelegrams by means of radiotelephony.

Section II. Preliminary Operations

- 1217 § 6. (1) Before transmitting, a station shall take precautions to ensure that its emissions will not interfere with transmissions already in progress; if such interference is likely, the station shall await an appropriate break in the working.
- 1218 (2) If, these precautions having been taken, the emissions of the station should nevertheless interfere with a transmission already in progress, the following rules shall be applied :
- 1219

1220

1221

- a) The mobile station whose emission causes interference to the correspondence of a mobile station with a coast or aeronautical station shall cease sending at the first request of the coast station or the aeronautical station.
- b) The mobile station whose emission causes interference to communications already in progress between mobile stations, shall cease sending at the first request of one of the other stations.
 - c) The station which requests this cessation shall indicate the approximate waiting time imposed on the station whose emission it suspends.

- 283 -

<u>Ref</u>.

G/78(93) SUP 1210

Reasons :

Covered by No. 951

MOD 1215 (2) Radiotelephone stations of the maritime mobile service which participate in communications between ship stations and subscribers of the land telephone system, should as far as possible, avoid manual methods switching from transmission to reception and vice versa.

Reasons :

For clarification.

Reference to aircraft deleted as already covered by No. 951.

G/59(8)ADD1216ATo facilitate radiocommunications the service
abbreviations given in Appendix 13 may be used.Reasons :To extend the use of these abbreviations to radiotelephony.ADD1216BWhen it is necessary to spell out certain
expressions, difficult words, service abbre-
viations, figures, etc., the phonetic spelling
tables in Appendix 16 shall be used.

Reasons :

To permit the use of the phonetic spelling table in Appendix 16 under more general conditions and the use of the proposed figure spelling table.

G/78 (93)

(a) The mobile station whose emission causes interference to the correspondence of a mobile station with a coast station shall cease sending at the first request of the coast station.

Reasons :

1219

MOD

Reference to aeronautical station deleted as already covered by No. 951.

. . . .

·	•	
<u>Ref.</u>		
HOL/70 (3)	ADD 1215A	(3) <u>Radiotelephone stations of the maritime</u> mobile service shall comply with the provisions of Appendix 17A.
	Reasons :	
	To make of the maritime m	Appendix 17A mandatory for radiotelephone stations nobile service.
		Section I - General provisions
HOL/74(18)	ADD 1216 A	In the case of language difficulties, stations of the maritime mobile service shall use the service abbreviations given in Appendix 13 and may communicate by means of the International Code of Signals.
	Reasons :	
		the use of the Q Code, contained in ory for radiotelephony when language
		sed International Code of Signals is suitable y all means of communication, including
	•	
J/88(59)	MOD 1216	§5. (1) (no change in text)
J/88(60)	ADD <u>1216A</u>	(2) In cases of language difficulties stations of the maritime mobile service should use the service abbreviations given in Appendix 13 and the abbreviations in the International Code of Signals.

Section I. - General Provisions

1216 After this No. add the following new paragraph :

DNK/38(1)

ADD 1216A Para. 5bis. In case of language difficulties, stations of the mobile service shall use the service abbreviations given in Appendix 13, Section I and II. Letters and figures are to be spelled in accordance with the spelling tables given in Appendix 16.

Reasons :

To provide ways and means of communication in radiotelephony when language difficulties arise.

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Proposals relating to Article 33

Section III. Calls, Reply to Calls and Signals Preparatory to Traffic

Method of Calling

N° 1222, 1224

Frequency to be Used for Calling and for Preparatory Signals

A. Bands between 1605 and 4000 kc/s N° 1226 - 1228, 1230, 1232 - 1235

B. Bands between 4000 and 23000 kc/s N° 1236

Method of Calling

1222 § 7. (1) The call consists of :

- the call sign or other identification of the station called, not more than three times ;
- the words THIS IS;
- the call sign or other identification of the calling station, not more than three times.
- 1223 (2) When contact is established, the call sign or other identification may thereafter be transmitted once only.
- 1224 (3) When the coast station is fitted with equipment for selective calling and the ship station is fitted with equipment for receiving selective calls, the coast station shall call the ship by transmitting the appropriate code signal, and the ship station shall call the coast station by speech in the manner given in No. 1222.

Frequency to be Used for Calling and for Preparatory Signals

A. Bands between 1 605 and 4 000 kc/s

- 1225 § 8. (1) A radiotelephone ship station calling a coast station of its own nationality should use for the call :
- **1226** a) the frequency 2 182 kc/s;
- 1227 b) a working frequency, whenever and wherever traffic density is high.
- 1228 (2) A radiotelephone ship station calling a coast station of another nationality should, as a general rule, use the frequency 2 182 kc/s. However, where so agreed by administrations, the ship station may use a working frequency on which watch is kept by that coast station.
- 1229 (3) A radiotelephone ship station calling another ship station should use for the call :
- **1230** a) the frequency 2 182 kc/s;
- 1231 b) an inter-ship frequency, whenever and wherever traffic density is high and prior arrangements can be made.
- 1232 (4) An aircraft station calling a coast station or a ship station may use the frequency 2 182 kc/s.
- 1233 (5) Coast stations shall, in accordance with the requirements of their own country, call ship stations of their own nationality either on a working frequency, or, when calls to individual ships are made, on the frequency 2 182 kc/s.
- 1234 (6) However, a ship station which keeps watch simultaneously on 2 182 kc/s and a working frequency should be called on the working frequency.
- 1235 (7) As a general rule, coast stations should call radiotelephone ship stations of another nationality on the frequency 2 182 kc/s.

B. Bands between 4 000 and 23 000 kc/s

1236 § 9. (1) A ship station calling a coast station by radiotelephony may use either the frequency reserved for this purpose in accordance with Section B of Appendix 15, or the working frequency associated with that of the coast station in accordance with Appendix 17.

			- 289 -
Ref.	1222 0		
		ra. 7, read	
DNK/38(2)	MOD 1222 -	the words in case of	THIS IS (or DE spoken as DELTA BCHO 1 language difficulties);
USA/21(41)	HOD 1222	after "Th add the no	HIS IS" <u>ote</u> 1)
USA/21(41)	ADD 1222.1	1) Where is Code of THIS IS	anguage difficulty is encountered, International Signals DELTA ECHO may be used in lieu of
			Amend No. 1224 to read :
F/109(94)	MOD	1224	" the coast station shall call the shi by transmitting the appropriate code signal (<u>see Article 34</u> - <u>Section II</u>) and the ship station shall call"
			Amend No. 1233 to read :
F/109(95)	MOD	1233	"(5) <u>Subject to the provisions of No.1235A</u> , coast stations shall, in accordance with
F/109(96)	ADD	1235A	Coast stations shall call ships equipped to receive selective call signals by making class A2H emissions on frequency 2192.65 kc/s (carri frequency 2191.3 kc/s). After transmission of the ship call number, they shall transmit an identification number to inform the ship of th name of the calling coast station (Nos. 788F and 1318E to K).
	Reasons : To calling devic by C.C.I.R. S	es as defi	n the Regulations provisions on selective ned in draft Recommendation D.a prepared XIII.
F/111(148	B) MOD	1226	Replace by the following :
			a) as far as possible, a working frequency, particularly in areas where the traffic intensity is high;
	Pasaon	-	
	Reasons		
	neasons		posal relating to number 1227.

F/111(149)

MOD 1227

Replace by the following :

b) the carrier frequency 2182 kc/s wherever it is not possible to use a working frequency.

Reasons:

MOD

To give priority to procedure a) (see number 1226) already in use in certain countries.

F/111(150)

Replacé, wherever necessary, in each of these numbers :

"the frequency 2182 kc/s"

1235 by

1228 1230

1232

1233 1234

"the carrier frequency 2182 kc/s".

Reasons:

Consequence of using SSB.

.

Ref.		Article 33 - Section III		
	ADD :	Internal radio communication on ships		
G/118(61)	ADD 1224A	§ 7.(bis) (1) Calls for internal communi- cations on board ship shall consist of :		
	ADD 1224B	a) From the control station :		
		- the name of the ship followed by a single letter (ALFA, BRAVO, CHARLIE, etc. indicating the substation (see No. 777B) not more than three times;		
		- the words "THIS IS";		
		- the name of the ship followed by the word "CONTROL";		
	ADD 1224C	b) From the substation :		
		- the name of the ship followed by the word "CONTROL" not more than three times;		
		- the words "THIS IS";		
		- the name of the ship followed by a single letter (ALFA, BRAVO, CHARLIE, etc. indicating the sub- station - see No. 777B).		
	Reasons :			

To provide for the use of radio equipment for internal communication on board ship, and to avoid confusion with other ships. .

,

F/8(25)	No. 1236 Replace	the present text by the following :				
• .	shall use the wor	(1) A ship station calling a coast station by radiotelephony shall use the working frequency associated with that of the coast station, in accordance with Appendix 17.				
	Reasons :					
		sence of abolishing Appendix 15-B because of the sed for Nos. 447 (F/8(5) and 450 (F/8(8)).				
C/ 91(52)	MOD 1224	(3) When selective calling is used the provisions of Article 28A shall be observed.				
	<u>Reasons</u> :					
	To prov see new Article 2	ide for the use of selective calling devices - 8A.				
G/77(41)	MOD 1236	\$9.(1) A ship station calling a coast station by radiotelephony may use the working frequency associated with that of the coast station in accordance with Appendix 17.				
	Reasons :					
	Consequer	ntial upon the deletion of No. 1352 (G/77(42)).				
1/31(1)	ADD 1227 AA	c) the assigned frequency 2191.9 kc/s with single sideband emissions and peak envelope power not exceeding 400 W (see No. 1330 AA). (Proposal No. I/31 (2)).				
	ADD 1233 AA	(5 bis) When using selective calling coast stations shall use the assigned frequency 2171.4 kc/s with single sideband emissions (see No. 1330 AA). (Proposal No. 1/31 (2)).				
	As a consequence of guard bandwidth reduction (see Proposal No. I/31(2)) two single sideband channels are available.					
	It would in order to avoid purposes other tha	be advisable to use them for calling purposes, excessive use of the frequency 2182 kc/s for n distress traffic				
J/84(14)	MOD 1236	§9. (1) A ship station calling a coast station by radiotelephony may use either the frequency reserved for this purpose in accordance with given in Section B of Appendix 15 17, or the working frequency associated with that of the coast station in accordance with Section A of Appendix 17.				

Proposals relating to

Article 33

Section III. Calls, Reply ...

Frequency to be Used for Calling and for Preparatory Signals

C. Bands between 156 and 174 Mc/s

N° 1239 and 1241

C. Bands between 156 and 174 Mc/s

- 1239 § 10. (1) In the bands between 156 and 174 Mc/s used for the maritime mobile services, coast and ship stations should, as a general rule, call on 156.80 Mc/s. However, in the public correspondence service, calling may be conducted on a working channel or on a two-frequency calling channel which has been implemented in accordance with No. 1361.
- 1240 (2) When 156.80 Mc/s is being used for distress, urgency or safety communications, a ship station desiring to participate in the port operations service may establish contact on 156.60 Mc/s or another port operations frequency, indicated in heavy type in the List of Coast Stations.

Form of Reply to Calls

- **1241** § 11. The reply to calls consists of :
 - the call sign or other identification of the calling station, not more than three times;
 - the words THIS IS;
 - the call sign or other identification of the station called, not more than three times.

G/65 (78)

 s_{10} (1) In the bands between 156 and 174 Mc/s used for the maritime mobile services, coast and ship stations should, as a general rule, call on 156.80 Mc/s. However, calling may be conducted on a working channel or on a two-frequency calling channel, which has been implemented in accordance with No. 1361.

Reasons :

ADD

MOD

1239

1240A

To permit alternative calling arrangements to be made in a port operations service. (See also Additional Item UK9 to follow new No. 1367A.)

F/109(97)

Coast stations shall call ships equipped to receive selective call signals by making class F2 emissions on frequency 156.80 Mc/s. After transmission of the ship call number, they shall transmit a number indicating the radiotelephone channel to be used for the reply and for the exchange of traffic (Nos. 1318E to K); this number shall consist of 4 digits; the thousands digit and the hundreds digit shall be zero, while the tens digit and the units digit shall represent the channel number as indicated in Appendix 18.

		1241 Para.ll. Read :
DNK/38(3)	MOD	1241 - the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);
USA/21(41)	MOD	1241 <u>after</u> "THIS IS" <u>add the note</u> 1)
USA/21(41)	ADD	1) Where language difficulty is encountered, International Code of Signals DELTA ECHO may be used in lieu of THIS IS.

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Proposals relating to Article 33

Section III. Calls, Reply ...

Frequency for Reply

- A. Bands between 1605 and 4000 kc/s N° 1242, 1244, 1247
- B. Bands between 4000 and 23000 kc/s N° 1249 - 1251
- C. Bands between 156 and 174 Mc/s N° 1253

Frequency for Reply

A. Bands between 1 605 and 4 000 kc/s

- 1242 § 12. (1) When a ship station is called on 2 182 kc/s it should reply on the same frequency unless another frequency is indicated by the calling station.
- 1243 (2) When a ship station is called on a working frequency by a coast station of the same nationality, it shall reply on the working frequency normally associated with the frequency used by the coast station for the call.
- 1244 (3) A ship station, after calling a coast station or another ship station, shall indicate the frequency on which a reply is required if this frequency is not the normal one associated with the frequency used for the call.
- 1245 (4) A ship station which frequently exchanges traffic with a coast station of another nationality may use the same procedure for reply as ships of the nationality of the coast station, where this has been agreed by the administrations concerned.
- 1246 (5) As a general rule a coast station shall reply :

frequency.

- 1247 a) on 2182 kc/s to calls made on 2182 kc/s unless another frequency is indicated by the calling station;
- 1248

b) on a working frequency to calls made on a working

B. Bands between 4 000 and 23 000 kc/s

- 1249 § 13. (1) When a ship station is called by a coast station, it may reply either on the calling frequency given in Section B of Appendix 15, or on the working frequency associated with that of the coast station in accordance with Appendix 17.
- 1250 (2) When a coast station is called by a ship station, the coast station should reply on one of its working frequencies specified in the List of Coast Stations.
- (3) In the Tropical Zone of Region 3, when a station is called on 6 204 kc/s, it should reply on the same frequency.

C. Bands between 156 and 174 Mc/s

- 1252 § 14. (1) When a station is called on 156.80 Mc/s it should reply on the same frequency.
- 1253 (2) When a coast station open to public correspondence calls a ship station either by speech or by selective calling, using a twofrequency channel, the ship station shall reply by speech on the frequency associated with that of the coast station; conversely, a coast station shall reply to a call from a ship station on the frequency associated with that of the ship station.

P/111(150)	MOD	1242	Re
<u>Ref</u> .			

eplace "the frequency 2182 kc/s"

299

by "the carrier frequency 2182 kc/s"

<u>Reasons</u> : Consequence of using SSB.

F/109(98) ADD 1243A (2 bis) When a ship station receives a selective all signal transmitted by a coast station, it must enter into correspondence with the latter as soon as possible, using the normal procedure provided for calls to coast stations from ship stations.

F/111(151) MOD

Replace the opening words by :

(3) When calling a coast station or another ship station, a ship station ...

Reasons:

ADD

To show that the ship station has to indicate the reply frequency during the call.

F/111(152)

1244A

1244

Add the following number 1244A :

(3 bis) When a ship station calls a coast station, the reply frequency given by the ship when making the call should generally be the normal working frequency of the coast station or, if this is not possible, another working frequency of this station (see number 1270).

Reasons:

To generalize the use of working frequencies for replies made by coast stations.

F/111(150) MOD 1247 <u>Replace</u> "the frequency 2182 kc/s" <u>by</u> "the carrier frequency 2182 kc/s" <u>Reasons</u>: Consequence of using SSB. F/8(26)

No. 1249 Replace the present text by the following :

(1) When a ship station is called by a coast station, it shall reply on the working frequency associated with that of the coast station, in accordance with Appendix 17.

Reasons :

Consequence of abolishing Appendix 15-B because of the amendments proposed for Nos. 447 (F/8(5)) and 450 (F/8(8)).

F/8(27) No. 1251 Replace the present text by the following :

(3) In the Tropical Zone of Region 3, when a station is called on 6205.35 kc/s (carrier frequency 6204 kc/s), it should reply on the same frequency.

Reasons :

ADD

To harmonize the designation of frequencies used with SSB (see F/8(30)).

F/109(99)

(1 bis) However, when a ship station receives a selective call signal from a coast station, it must reply on the radiotelephone channel the number of which has been displayed following the call.

Amend the beginning of No. 1253 to read :

F/109(100)

MOD

(2) When a coast station open to public correspondence calls a ship station by speech on a two-frequency channel, the ship station shall reply

1252A

1253

G/113(59) ADD 1242A When a ship station is called by selective calling 2170.5 kc/s (carrier frequency) it shall reply on 2191 kc/s (carrier frequency). @/79(98) ADD 1248A c) on a working frequency to calls made on the frequency 2192.35 kc/s (carrier frequency 2191 kc/s). (See No. 1339A.) Reasons : To provide for coast stations to reply to calls made on 2192.35 kc/s when this is used as a supplementary calling frequency. G/77(41) MOD \$13.(1) When a ship station is called by 1249 a coast station, it should reply on the working frequency associated with that of the coast station in accordance with Appendix 17. Reasons : Consequential upon deletion of No. 1352 (G/77(42)). MOD 1250 (2) When a coast station is called by a ship station, the coast station should reply on the working frequency associated with that of the ship station in accordance with Appendix 17. Reasons : For elarification. J/84(15) MOD 1249 \$13. (1) When a ship station is called by a coast station, it may reply either on the ealling frequency given in Section B of Appendix 15 17, or on the working frequency associated with that of the coast station in accordance with Section A of Appendix 17. Reasons :

> Consequential to the proposed amendment of Appendices 15 and 17 (see Agenda Item 3, Document No. 85).

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Proposals relating to Article 33

Section III. Calls, Reply ...

Indication of the Frequency to be Used for Traffic

N° 1254, 1255

Difficulties in Reception N° 1266

Indication of the Frequency to be Used for Traffic

A. Bands between 1 605 and 4 000 kc/s

1254 § 15. If contact is established on the frequency 2 182 kc/s, coast and ship stations shall transfer to one of their normal working frequencies for the exchange of traffic.

B. Bands between 4 000 and 23 000 kc/s

1255 § 16. After a ship station has established contact with a coast station, or another ship station, on the calling frequency of the band chosen, traffic shall be exchanged on their respective working frequencies.

C. Bands between 156 and 174 Mc/s

- 1256 § 17. (1) Whenever contact has been established between a coast station in the public correspondence service and a ship station either on 156 80 Mc/s, or on a two-frequency calling channel (see No. 1361), the stations shall transfer to one of their normal pairs of working frequencies for the exchange of traffic. The calling station should indicate the channel to which it is proposed to transfer by reference to the frequency in Mc/s or, preferably, to its channel designator.
- 1257 (2) When contact on 156.80 Mc/s has been established between a coast station in the port operations service and a ship station, the ship station should indicate the particular service required (such as navigational information, docking instructions, etc.) and the coast station shall then indicate the channel to be used for the exchange of traffic by reference to the frequency in Mc/s or, preferably, to its channel designator.
- 1258 (3) A ship station, when it has established contact with another ship station on 156 80 Mc/s, should indicate the inter-ship channel to which it is proposed to transfer for the exchange of traffic by reference to the frequency in Mc/s or, preferably, to its channel designator.

Difficulties in Reception

1266 § 20. (1) If the station called is unable to accept traffic immediately, it should reply to the call as indicated in No. 1241 followed by "Wait minutes", indicating the probable duration of waiting time in minutes. If the probable duration exceeds ten minutes (five minutes in the case of an aircraft station communicating with a station of the maritime mobile service), the reason for the delay shall be given. Alternatively, the station called may indicate by any appropriate means that it is not ready to receive traffic immediately. F/111(150)HOD1254Replace"the frequency 2182 kc/s"by"the carrier frequency 2182 kc/s"

Reasons : Consequence of using SSB.

F/8(28) No. 1255 Delete this number

Reasons :

Consequence of the deletion of No. 450 $(\mathbf{F}/\beta(8))$.

F/109(101) ADD 1257A (2 bis) However, when contact has been established between a coast station and a ship station following transmission by the former of a selective call signal, traffic must be exchanged on the radiotelephone channel used by the ship to reply (see No. 1252A).

G/77(41) MOD 1255 S16. After a ship station has established contact with a coast station, or another ship station, traffic shall be exchanged on their respective working frequencies.

Reasons :

Consequential upon the deletion of No. 1352.

J/84(16) SUP 1255

<u>Reasons</u>:

Consequence of abolishing the calling frequencies set out in Section B of Appendix 15 (see Nos. 450 and 1352, J/84(4) and J/84(25) respectively).

	Diffic	ulties in	Reception
		1266	Para. 20. Read :
DNK/38(4)	MOD	1266	•••• "Wait ••••• minutes" (or AS spoken as ALFA SIERRA ••••• (minutes) in case of language difficulties);
G/78(93)	MOD	1266	§ 20.(1) If the station called is unable to accept traffic immediately, it should reply to the call as indicated in No. 1241 followed by "Wait minutes", indicating the probable duration of waiting time in minutes. If the probable duration exceeds ten minutes the reason for the delay shall be given. Alternatively the station called may indicate by any appropriate means, that it is not ready to receive traffic immediately.
	Reasons	0 9	

Reference to aircraft deleted as already covered by No. 951.

Proposals relating to Article 33

Section IV. Forwarding (Routing) of Traffic N° 1273, 1280, 1284, 1285, 1287 and 1289

Section IV. Forwarding (Routing) of Traffic

Traffic Frequency

- 1272 (4) After contact has been established on the frequency to be used for traffic, the transmission of a radiotelegram or radiotelephone call shall be preceded by :
- 1273 the call sign or other identification of the station called ;
 the words THIS IS ;

- the call sign or other identification of the calling station.

1274 (5) The call sign or other identification need not be sent more than once.

B. Transmission of Radiotelegrams

- 1280 § 23. (1) The transmission of a radiotelegram should be made as follows:
 - Radiotelegram begins : from ... (name of ship or aircraft);
 - number ... (serial number of radiotelegram);
 - number of words . . . ;
 - date . . . ;
 - time ... (time radiotelegram was handed in aboard ship or aircraft);

- service indicators (if any);

- address . . . ;
- text . . . ;
- signature . . . (if any);
- radiotelegram ends, over.
- 1284 (5) When, during the transmission of a radiotelegram, it is necessary to spell certain expressions, difficult words, etc., the spelling table given in Appendix 16 shall be used.
- 1285 (6) In transmitting groups of figures each figure shall be spoken separately and the transmission of each group or series of groups shall be preceded by the words "in figures". In cases of language difficulties the figure table given in Appendix 16 shall be used.
- 1286 (7) Numbers written in letters shall be spoken as they are written, their transmission being preceded by the words "in letters".

Proposals relating to Article 33

Section IV.

(continuation)

C. Acknowledgment of Receipt

1287 § 24. (1) The acknowledgment of receipt of a radiotelegram or a series of radiotelegrams shall be given by the receiving station in the following manner:

- the call sign or other identification of the sending station;
- the words THIS IS;
- the call sign or other identification of the receiving station;
- "Your No. . . . received, over";

- "Your No. ... to No. ... received, over".

1288 (2) The radiotelegram, or series of radiotelegrams, shall not be considered as cleared until this acknowledgment has been received.

or

1289 (3) The end of work between two stations shall be indicated by each of them by means of the word "Out".

DNK/38(5)	MO	D 12	273 – tr EC	ne words THI XHO in case	IS IS (or DE of language	spoken as difficulti	DELTA es);	
USA/21(41)	HOD	1273	<u>after</u> "TH <u>add the n</u>		ча,			
USA/21(41)	ADD	1273.1	1) Where 1	anguage dif Signals DE	ficulty is end LTA ECHO may	ncountered be used in	, Intern 1 lieu o:	ational f
F/111(153)	MOD	1280	<u>Replace</u> by	"commutez "à vous"	10 10 10 10 10 10 10 10 10 10 10 10 10 1			
	<u>Reaso</u> only	ons : The the Fren	word "comm ch text.	utez" is ha:	rdly ever use	ed. This co	ncerns	

DNK/38(6)

1280A

ADD

(lbis). However, in case of language difficulties, the transmission of a radiotelegram should be made as follows :

- KA spoken as KILO ALFA
- PBL spoken as PAPA BRAVO LIMA (name of ship) (serial number) (number of words) (date) (time of handing-in) (service indicators, if any)

- BT spoken as BRAVO TANGO

- (paid service indicators (if any))
- ADS spoken as ALFA DELTA SIERRA
- BT spoken as BRAVO TANGO

- TXT spoken as TANGO X-RAY TANGO

- BT spoken as BRAVO TANGO
- SIG spoken as SIERRA INDIA GOLF (if any) ...
- AR spoken as ALFA ROMEO
- K spoken as KILO

Reasons :

To provide ways and means of communication in radiotelephony when language difficulties arise.

.

Ref.

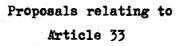
G/78 (93)	SUP 1284
	Reasons :
	Included in new No. 1216A - see Agenda Item 6 (G/59(8), Document No. 59).
	MOD 1285 (6) In transmitting groups of figures each figure shall be spoken separately and the transmission of each group or series of groups shall be preceded by the words "in figures".
	Reasons :
	Consequential upon new 1216B - see Agenda Item 6 - (G/59(8)).
DNK/38(7)	MOD 1287 - the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);
	- "Your No received, over" (or R spoken as ROMEO (number), K spoken as KILO in case of language difficulties); or
	"Your No to No received, over" (or R spoken as ROMEO (numbers), K spoken as KILO in case of language difficulties).
	1289 (3) Read, in fine :
DNK/38(8)	MOD 1289 the word "Out" (or VA spoken as VICTOR ALFA in case of language difficulties.
F/13(7 7)	MOD 1287 Throughout the texts of this number, replace the word "received" by the letter "R" (ROMEO).
	Reasons :
	The letter "R" (ROMEO) which is already used in radio- telegraphy (Appendix 13, section II) and contemplated for use in radiotelephony in the I.M.C.O. revised International Code of Signals seems to be phonetically preferable to the word "received", and has the advantage of international usage.
F/111(153)	NOD 1287 <u>Replace</u> "commutez" <u>by</u> "à vous"
	Reasons : The word "commutez" is hardly ever used. This concerns only the French text.

.

			- 313 -
Ref.			
F/111(154)	MOD	1290	Replace :
			"on 2182 kc/s or on 156.80 Mc/s"
			py
			"on the carrier frequency 2182 kc/s or on 156.80 Me/s".
	Reasons	Consequ	uence of using SSB.
G/65(78)	MOD 1	n 1 <u>'</u>	25.(1) Calling and signals preparatory to traffic shall not exceed two minutes when made on 2182 kc/s or on 156.80 Mc/s, except in cases of distress, urgency or safety to which the provisions of Article 36 apply.
	<u>Reasons</u> :	•	
		For clar:	rification.
USA/21(41)	MOD 128	87 <u>aft</u>	ter "THIS IS"
	•	add	<u>d the note</u> 1)
USA/21(41)	ADD 128		Where language difficulty is encountered, International Code of Signals DELTA ECHO may be used in lieu of THIS IS.

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Section V. Duration and Control of Working

Nº 1290

Section VI. Tests

Nº 1295

Section V. Duration and Control of Working

- 1290 § 25. (1) In the maritime mobile service calling and signals preparatory to traffic shall not exceed two minutes when made on 2 182 kc/s or on 156 80 Mc/s (but see No. 1209).
- 1291 (2) In communications between land stations and mobile stations, the mobile station shall comply with the instructions given by the land station in all questions relating to the order and time of transmission, to the choice of frequency, and to the duration and suspension of work.
- 1292 (3) In communications between mobile stations, the station called controls the working in the manner indicated in No. 1291. However, if a land station finds it necessary to intervene, these stations shall comply with the instructions given by the land station.

Section VI. Tests

- 1293 § 26. When it is necessary for a mobile station to send signals for testing or adjustments which are liable to interfere with the working of neighbouring coast stations, the consent of these stations shall be obtained before such signals are sent.
- 1294 § 27. (1) When it is necessary for a station to make test signals, either for the adjustment of a transmitter before making a call or for the adjustment of a receiver, such signals shall not be continued for more than ten seconds, and shall include the call sign or other identification of the station emitting the test signals. This call sign or other identification shall be spoken slowly and distinctly.
- 1295 (2) Any signals sent for testing shall be kept to a minimum particularly on 2 182 kc/s, 156.80 Mc/s and in the Tropical Zone of Region 3 on 6 204 kc/s.

G/65 MOD 1290 §25.(1) Calling and signals preparatory to traffic shall not exceed two minutes when made on 2182 kc/s or on 156.80 Mc/s, except in cases of distress, urgency or safety to which the provisions of Article 36 apply.

Reasons :

For clarification.

F/8(29)

No. 1295 Replace the present text by the following :

(2) Any signals sent for testing shall be kept to a minimum, particularly on the carrier frequency 2182 kc/s, the frequency 156.80 Mc/s and in the Tropical Zone of Region 3 on 6205.35 kc/s (carrier frequency 6204 kc/s).

Reasons :

To harmonize the designation of frequencies used with SSB (see F/8(30)).

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Proposals relating to Article 34

Calls by Radiotelephony

N° 1296, 1301 - 1303, 1317 and 1318

Calls by Radiotelephony

- 1296 § 1. (1) The provisions of this Article are not applicable to the aeronautical mobile service when special agreements exist between the governments concerned.
- 1301 (2) Coast stations shall transmit their traffic lists on their normal working frequencies in the appropriate bands.
- 1302 (3) They may, however, announce this transmission by the following brief preamble sent on a calling frequency :
 - "Hullo all stations" not more than three times;
 - the words "THIS IS";
 - "... Radio " not more than three times;
 - "Listen for my traffic list on ... kc/s".
 - In no case may this preamble be repeated.
- 1303 (4) The provisions of No. 1302 are obligatory when 2182 kc/s or 156.80 Mc/s is used.
- 1317 (2) The information referred to in Nos. 1314 to 1316 should be furnished by mobile stations without prior request from the coast station, whenever such a measure seems appropriate.
- 1318 (3) The information referred to in Nos. 1314 to 1317 is furnished on the authority of the master or the person responsible for the ship, aircraft or other vehicle carrying the mobile station.

F/111(155) MOD

Add the following second sentence :

This transmission shall be preceded by a call to all stations.

Reasons:

1301

See proposals relating to numbers 1302 and 1303.

F/111(156)

MOD 1302

Replace first two lines by the following :

(3) The call to all stations sent before transmission of the traffic list may be transmitted on the calling frequency in the following form :

Reasons:

See proposal relating to number 1303.

F/111(157) MOD

1303

Replace by the following :

(4) The provisions of number 1302 are obligatory for traffic lists which are not transmitted at fixed times.

Reasons:

Ship stations must listen to lists sent at fixed times directly on the working frequencies of the coast stations (see numbers 1304 and 1331).

_ /_ ..

A) Place Nos. 1296 to 1318 under the heading :

"Section I - General"

B) Add a Section II as follows :

<u>Section II</u> - <u>Use of selective calling</u> devices in the maritime mobile service

§ 1. Coast stations may call ship stations singly or in groups by using the signals described below.

> All ships equipped to receive such signals may be called by using the signal described in No. 1318Q.

§ 2. (1) A 5-digit call number shall be assigned to each ship; coast stations and certain radiotelephone traffic channels shall be designated by a 4-digit number. In the transmission of these numbers, each digit shall be represented by a tone.

1318C

1318D

(2) The tones used to represent the digits in a ship's selective call shall be taken from the following series :

Digit	1	2	3	4	5	6	7	8	9	0	Repetition digit
Tone (c/s)	1124	1197	1275	135 8	1446	1540	1640	1747	1860	1981	2110

For example, the tone series corresponding to selective call number 12133 is 1124-1197-1124-1275-2110 kc/s, and the series corresponding to number 22222 is 1197-2110-1197-2110-1197 c/s.

(3) The tones shall be transmitted one after another; the duration of each tone, measured between the points at 50% of maximum amplitude, shall be 100 ms \pm 10 ms, and the time interval between two consecutive tones, measured between the points at 50% of maximum amplitude, shall be 3 ms \pm 2 ms.

F/109(103)

1318A

1**318B**

.

Ref.

F/109(102)

MOD

ADD

Ref.		- 323 -
F/109(103)	1318E	§ 3. (1) Each call shall consist of :
(cont.)	1 31 8F	 transmission of the call number (tone, 5 times);
	1318G	- an interval of 350 <u>+</u> 30 ms;
	1318H	 transmission of the identification number of the calling coast station or of the number of the channel to be used for the reply and for the ex- change of traffic (see Nos. 1235A and 1240A) (tone, 4 times);
. *	1318J	- an interval of 350 <u>+</u> 30 ms;
	1318K	- repetition of the operations described in Nos. 1318F, 1318G and 1318H.
	1318L	(2) A new call can be made only after an interval of at least one second following the end of the preceding call.
	1318M	§ 4. If the selective call signal is used on frequencies other than the international frequencies provided for this purpose (Article 33), the call may comprise only :
	1318N	 first transmission of the call number (tone, 5 times);
	13180	- an interval of $900 \pm 100 \text{ ms};$
	1 31 8P	- second transmission of the call number (tone, 5 times).
	1318Q	§ 5. (1) A special call signal "to all ships", to activate the receiving selectors installed on board all ships regardless of call number, may be used.
		(2) This signal consists in the continuous transmission of the sequence of eleven tones mentioned in No. 1318C. The tones are transmitted one after another; the length of each tone, measured between the points at 50% of maximum amplitude, is 17 ± 1 ms and the time interval between two consecutive tones, measured between the points at 50% of maximum amplitude, is 218 than 1 ms.
R	easons :	
01		o include in the Regulations provisions on selective

To include in the Regulations provisions on selective calling devices as defined in draft Recommendation D.a prepared by C.C.I.R. Study Group XIII.

F/13(78)

MOD 1302 <u>Throughout the texts of this number</u>, replace the words "hullo all stations" by "CQ" (CHARLIE QUEBEC)

Reasons :

.1302

1308A

1**3**11A

1317

The abbreviation "CQ" is already used in radiotelegraphy (Appendix 13, section II) and contemplated for use in the revised International Code of Signals, and it offers the advantage of international usage.

G/65 (79)

MOD

(3) They may, however, announce this transmission by the following brief preamble sent on a calling frequency :

- "Hello all ships" not more than three times;
- the words "THIS IS";

- "... radio" not more than three times;

"Listen for my traffic list on ... kc/s".

In no case may this preamble be repeated.

Reasons :

To conform to the French text. ("Appel a tous les navires".)

ADD

a) However, in the maritime mobile service when a station called does not reply, the call may be repeated at threeminute intervals.

Reasons :

To speed up communications by reducing the permitted intervals between calls.

ADD

(5) However, in the maritime mobile service, before renewing the call, the calling station shall ascertain that further calling is unlikely to cause interference to other communications in progress and that the station called is not in communication with another station.

Reasons :

MOD

Consequential upon the insertion of new No. 1308A.

G/78**(**94)

(2) The information referred to in Nos. 1314 to 1316 should be furnished by mobile stations without prior request from the coast station, whenever such a measure seems appropriate. This information is furnished on the authority of the master or the person responsible for the mobile station.

Reasons :

Nos. 1317 and 1318 combined and amended for clarification.

SUP 1318

Reasons :

Combined with No. 1317 for clarification.

<u>Ref</u> .	•		- 325 -
USA/21(41)	MOD	1302	after "THIS IS" add the note 1)
USA/21(41)	ADD	1302.1	 Where language difficulty is encountered, International Code of Signals DELTA ECHO may be used in lieu of

THIS IS.

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Proposals relating to Article 35

Use of Frequencies for Radiotelephony in the Maritime Mobile Service

Section I. General Provisions

Nº 1320

Section II. Bands between 1605 and 4000 kc/s N° 1323, 1325, 1334 - 1337

Section I. General Provisions

- 1319 § 1. (1) The provisions of this Article are applicable to radiotelephone stations of the maritime mobile service.
- 1320 (2) Aircraft stations may enter into telephone communication with stations of the maritime mobile service on frequencies allocated to that service for radiotelephony. They shall then comply with the provisions of this Article and Article 27.

Section II. Bands between 1 605 and 4 000 kc/s

A. Distress

- 1323 § 3. (1) The frequency 2182 kc/s is the international distress frequency for radiotelephony; it shall be used for this purpose by ship, aircraft and survival craft stations using frequencies in the authorized bands between 1 605 and 4 000 kc/s when requesting assistance from the maritime services. It is used for the distress call and distress traffic, for the urgency signal and urgency messages and for the safety signal. Safety messages shall be transmitted, where practicable, on a working frequency after a preliminary announcement on 2 182 kc/s.
- 1324 (2) However, ship and aircraft stations which cannot transmit on 2 182 kc/s should use any other available frequency on which attention might be attracted.
- 1325 (3) Except for transmissions authorized on 2182 kc/s, all transmissions on the frequencies between 2170 and 2194 kc/s are forbidden.
- 1326 (4) Any coast station using 2 182 kc/s for distress purposes should be able to transmit, as soon as practicable, the radiotelephone alarm signal described in No. 1465 (see also Nos. 1471, 1472 and 1473).
- 1334 (3) In addition, ship stations should keep the maximum watch practicable on 2 182 kc/s for receiving by any appropriate means the radiotelephone alarm signal described in No. 1465, as well as distress, urgency and safety signals.
- 1335 § 7. Ship stations open to public correspondence should, as far as possible during their hours of service, keep watch on 2 182 kc/s.

D. Traffic

- 1336 § 8. (1) Coast stations which use 2 182 kc/s for calling shall be able to use at least one other frequency in the authorized bands between 1 605 and 2 850 kc/s.
- 1337 (2) Coast stations open to the public correspondence service on one or more frequencies between 1 605 and 2 850 kc/s shall also be capable of transmitting and receiving class A3 emissions on 2 182 kc/s.

G/78(95) SUP 1	320
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Reasons :

Covered by No. 951.

G/76(30)

Section II - Bands between 1605 and 4000 kc/s

under title :

ADD

1322A

1325

Unless otherwise specified in these regulations the class of emission to be used in the public correspondence service shall be class A3A or class A3J using the upper sideband mode and a bandwidth not exceeding 2.7 kc/s; the normal method of operation for each coast station shall be indicated in the List of Coast Stations.

Reasons :

To specify the types of emission and use of the upper sideband mode in all cases.

G/79 (99)

(3) Except for transmissions authorized on 2182 kc/s, all transmissions on the frequencies between 2173.5 and 2190,5 kc/s are forbiddon.

Reasons :

MOD

To take advantage of the improvement of transmitter and receiver design to reduce the guard-band for 2182 kc/s to $\pm 8.5 \text{ kc/s}$.

F/8(30) Article 35 - Section I

After No. 1321 insert the following :

No. 1321a Frequencies on which SSB emissions are sent shall be designated by the assigned frequency followed, in brackets, by details of the carrier frequency.

Reasons :

To clarify the method of designating frequencies used for SSB emissions.

F/8(31) Article 35 - Section II

Under the title : Section II. Bands between 1606 and 4000 kc/s insert No. 1322a as follows :

No. 1322a Unless otherwise specified in the present Regulations (see Nos. 987, 996, 1323, 1336 and 1337), the class of emission to be used in the bands between 1605 and 4000 kc/s shall be class A3A or class A3J using the upper sideband and with the necessary bandwidth not exceeding 2.7 kc/s. Reasons :

It seemed necessary to state that, for the section as a whole, the upper sideband must always be used in the SSB system.

Furthermore, it seems advisable to indicate the classes of emission to be used.

F/8(32) No. 1323 Replace the present text by the following :

(1) The frequency $2182 \text{ kc/s}^{(1)}$ is the international distress frequency for radiotelephony; it shall be used for this purpose by ship, aircraft and survival craft stations using frequencies in the authorized bands between 1605 and 4000 kc/s when requesting assistance from the maritime services. It is used for the distress call and distress traific, for the urgency signal and urgency messages and for the safety signal. Safety messages shall be transmitted, where practicable, on a working frequency after a preliminary announcement on 2182 kc/s. The class of emission to be used for the frequency 2182 kc/s. subject to the cases covered by Nos. 987 and 996, shall be class A3H.

Add the following footnote :

1323.1 (1) Whatever the class of emission used, the value indicated, 2182 kc/s, always designates the carrier frequency of the emission.

Reasons :

The distress frequency must be used with class A3 or A3H. To avoid ambiguity it is preferable to designate it in every case by its carrier frequency.

F/8(33) No. 1325 Replace the present text by the following :

(3) Except for transmissions authorized on 2182 kc/s, all transmissions on the frequencies between 2173.5 and 2190.5 kc/s are forbidden.

Reasons :

See Proposal No. F/8(1) relating to No. 442.

Add the following number 1326A :

F/111(158)

1326A

Before transmitting on 2182 kc/s, a station in the mobile service should listen to this frequency for a reasonable period to make sure that no distress traffic is being sent (see number 1007).

Reasons:

ADD

This is to avoid the risk of interference to distress traffic when the station has heard neither the distress call nor the message.

Add the following number 1326B :

F/111(159)

ADD 1326B

The provisions of number 1326A do not apply to stations in distress.

Reasons:

Stations in distress apply the rules specified in Article 36.

1322A

Ref.

J/84(17)

53. Apparatus in radiotelephone stations of
the maritime mobile service installed for
operation on frequencies in the authorized
bands between 1605 and 4000 kc/s and in the
authorized bands between 4000 and 23 000 kc/s
shall satisfy the technical and operational
conditions specified in Appendix 17.

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ι,

Reasons :

ADD

In consequence of the rule-making of technical characteristics of SSB system, the stations employing SSB equipment shall conform to these technical conditions.

J /8 4(18)	ADD	1323A	(1a) Whatever the class of emission used, the
	- 11 - 1	-	frequency 2182 kc/s always designates the
	•		carrier frequency on the emission.

Reasons :

With the amendment that the distress frequency may use class A3 or A3H emissions, it is necessary to indicate the frequency 2182 kc/s by carrier frequency.

J/84(19)

(3) Except for transmissions authorized on 2182 kc/s, all transmissions on the frequencies between 2170 2173.5 and 2194 2190.5 kc/s are forbidden.

Reasons :

MOD

MOD

The guard band for the distress frequency 2182 kc/s is proposed to be reduced to 17 kc/s.

RFA/94(22)

1323

1325

§ 3. (1) The frequency 2182 kc/s is the international distress frequency for radiotelephony; it shall be used for this purpose by ship, aircraft, survival craft stations and by floatable emergency position-indicating radio beacons using frequencies in the authorized bands between 1605 and 4000 kc/s when requesting assistance from the maritime services. \mathbf{It} is used for the distress call and distress traffic, for signals of floatable emergency position-indicating radio beacons, for the urgency signal and urgency messages and for the safety signal. Safety messages shall be transmitted, where practicable, on a working frequency after a preliminary announcement on 2182 kc/s.

Reasons :

Insertion in the Regulations of provisions relating to emergency position-indicating beacons (see C.C.I.R. Recommendation No. 439).

RFA/4(2)

MOD 1325 (3) Except for transmissions authorized on 2182 kHz, all transmissions on the frequencies between 2173.5 and 2190.5 kHz are forbidden.

NOC 1326

Reasons:

In view of the present stage of technical development we consider it appropriate to reduce the guard-band for the international distress frequency 2182 kHz to 17 kHz in order to thus obtain two single sideband frequencies each of 3.5 kHz bandwidth.

The World Administrative Radio Conference to deal with matters relating to the maritime mobile service should establish these two single sideband frequencies and include appropriate provisions in the Radio Regulations.

HOL/70(4)

1/31(2)

(3) Except for transmissions authorized on 2182 kc/s, all transmissions on the frequencies between 2170 2173.5 and 2194 2190.5 kc/s are forbidden.

Reasons :

1325

MOD

To reduce the guard band of 2182 kc/s as a result of the technical developments in equipment.

With respect to the two 3.5 kc/s channels thus being made available (2170 - 2173.5 kc/s and 2190.5 - 2194 kc/s), the Netherlands Administration has, at this time, no specific proposals to make. It is, however, considered that the possible use of these two channels should be in conformity with the Table of Frequency Allocations, that is to say for additional calling purposes.

1325 (3) Except for transmissions authorized on 2182 kc/s, all transmissions on the frequencies between 2173.5 and 2190.5 kc/s are forbidden.

ADD 1330-AA (3) Transmissions on the two channels of 3.5 kc/s bandwidth each, with assigned frequencies 2171.4 and 2191.9 kc/s, are limited to single sideband emissions (see Nos. 1339-BA through 1339-BY) (Proposal No. I/31(4)).

Reasons :

MOD

Bearing in mind the technical developments during the past years, the actual guard band of 2182 kc/s is no longer necessary and it may be reduced in order to improve utilization of the 1605 - 4000 kc/s band.

The proposed reduction is compatible with transmitter frequency tolerance and receiver selectivity of survival craft stations.

USA/16(1)	MOD .	1325	(3) Except for transmissions authorized on 2182 kc/s, all transmissions on the frequencies between $2179 \ 2173.5$ and $2194 \ 2190.5$ kc/s are forbidden. \pm)
USA/16(2)	ADD	<u>1325.1</u>	1) Transmissions on the two channels of 3.5 kc/s bandwidth each, with carrier frequencies at 2170 and 2190.5 kc/s, formed by reduction of the band 2170-2194 kc/s to 2173.5-2190.5 kc/s, are limited to single sideband emissions A3A and A3J (see Nos. 1339BA through 1339BX) (Proposal No. USA/16(6)).

1323, 1324, 1326, 1327 - 1331, 1332 - 1335

USA/16(1)

NOC

<u>Ref.</u>

F/109(104)

ADD

1329A

"(1 bis) the frequency 2192.65 kc/s (carrier frequency 2191.3 kc/s) is used in class A2H emission by coast stations for selective calls to ships."

It is proposed to modify No. 1334 of the Radio Regulations, Geneva, 1959, to read as follows :

(3) In addition, <u>all</u> ship stations should keep the maximum watch practicable on 2182 kc/s for receiving by any appropriate means the radiotelephone alarm signal described in No. 1465, as well as distress, urgency and safety signals,

and, in consequence, to delete No. 1335 of the said Regulations :

SUP 1335

Background :

So far ship stations equipped for radiotelegraphy traffic, but having as well the radiotelephony means of communication were keeping watch only on the international distress frequency for radiotelegraphy 500 kc/s (International Convention for the Safety of Life at Sea, Section IV, part B, rule 6).

In this situation big ocean-going ships watching only on 500 kc/s could not hear distress calls of small craft transmitted on 2182 kc/s.

To increase the safety of small ships and improve efficacy of assistance to shipwreck survivors the big ships should keep watch on both international distress frequencies 500 kc/s and simultaneously.

The introduction among the ship equipment of automatic position indicating beacon signals helping to locate the position of mobile station in distress and to look for survivors equipped with the above mentioned beacons working on 2182 kc/s stresses the necessity of keeping watch on this frequency and the need of introducing of this duty as a rule to <u>all</u> ship stations.

POL/83(3)

MOD 1334

<u>Ref.</u>

rfa/94(23)

S 6. (3) In addition, ship stations should keep the maximum watch practicable on 2182 kc/s for receiving by any appropriate means the radiotelephone alarm signal described in No. 1465, as well as distress, urgency and safety signals <u>including the</u> signals of emergency position-indicating radio beacon described in Article 36, Section VIII A.

Reasons :

1334

MOD

Insertion in the Regulations of provisions relating to emergency position-indicating beacons (see C.C.I.R. Recommendation No. 439).

F/8(34) No. 1336 Add the following sentence to the present text :

This other frequency shall be capable of being used with class A3H for the transmission of messages concerning safety of shipping announced on 2182 kc/s (No. 1492).

Reasons :

See Proposal No. F/8(17) relating to No. 986.

F/8(35) No. 1337 Replace the present text by the following :

(2) Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall be capable of sending class A3H emissions and receiving class A3 and A3H emissions on 2182 kc/s.

<u>Reasons</u> :

1336

MOD

See Proposal No. F/8(15) relating to No. 984.

J/84(20)

§8. (1) Coast stations which use 2182 kc/s for calling shall be able to use at least one other frequency in the authorized bands between 1605 and 2850 kc/s. These stations should be able to use the frequency 2192 kc/s for simplex operation, if required by their service. The frequency 2171.5 kc/s may be used as an additional frequency.

Reasons :

See proposal relating to No. 1339A (J/84(22)).

J/84(21) MOD

(2) Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable of transmitting <u>class A3 or A3H</u> <u>emissions</u> and receiving class A3 and A3H emissions on 2182 kc/s.

Reasons :

MOD

See proposal relating to No. 984 (J/84(8)).

CAN/43(22)

Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable of transmitting Class A3 or A3H and receiving Class A3 and A3H emissions on 2182 kc/s.

Reasons:

To provide for the use of single sideband emissions on 2182 kc/s.

G/76(30)

MOD 1337

1337

(2) Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable of transmitting class A3 or A3H emissions on 2182 kc/s and receiving classes A3 or A3H emissions on 2182 kc/s.

Reasons :

MOD

To take account of single sideband operation.

HOL/73(16)

(2) Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable of transmitting and receiving class A3emissions on 2182 kc/s with class A3H emissions and be capable of receiving classes A3 and A3H emissions on 2182 kc/s.

<u>Reasons</u> :

To permit the use of the classes of emission A2H and A3H on the distress and calling frequencies 500 kc/s and 2182 kc/s respectively.

The C.C.I.R. considers the emissions A2H and A3H to be as effective as A2 and A3 emissions for use as alarm, distress, urgency and safety signals.

1337

1337(2)

I/35(26)

MOD 1337

(2) Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable of transmitting class A3 or A5H emissions, and receiving class A3 and A3H emissions on 2182 kc/s.

Reasons :

As a consequence of the modification introduced in No. 984 of Article No. 28 (Proposal No. 1/35(24)).

USA/20(39)

MOD 1337

(2) Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable of transmitting and receiving class A3 emissions on 2182 kc/s. Coast stations shall be capable of transmitting and receiving on 2182 kc/s with classes A3 or A3H emissions until 1 January 1970. After 1 January 1970 coast stations shall be capable of transmitting on 2182 kc/s with class A3H emissions and be capable of receiving classes A3 and A3H emissions on 2182 kc/s.

Reasons :

To provide for the permissive use of full carrier single sideband (SSB) emissions on the distress and calling frequencies 500 kc/s and 2182 kc/s for stations using SSB transmitting equipment. The C.C.I.R. has determined that the emissions A2H and A3H are as effective as A2 or A3 emissions for use as alarm, distress, urgency and safety signals.

Background :

Increasing use of single sideband (SSB) emission in the maritime mobile service requires that provision be made for SSB compatibility with existing double sideband (DSE) systems associated with the distress and safety uses of 500 kc/s and 2182 kc/s. The C.C.I.R. has carefully examined the technical aspects of the use of full carrier SSB emissions, A2H and A3H, and has found them to be compatible, including the use of the alarm signal. Either emission, A2 or A2H; A3 or A3H, may be used with equal effectiveness where A2 or A3 emissions are specified in the Radio Regulations for distress and safety uses.

USA/16(3)	MOD	1337	(2) Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable of transmitting and receiving elase-A3-emissions on 2182 kc/s. Coast stations shall be capable of transmitting and receiving on 2182 kc/s with classes A3 or A3H emissions until 1 January, 1970. After 1 January 1970 coast stations shall be capable of transmitting on 2182 kc/s with class A3H emissions and be capable of receiving classes A3 and A3H emissions on 2182 kc/s.
	NOC	1338	(3)
	NOC	1339	(4)

USA/16(4)

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ж,	2	2	9A

(5) The power supplied to the
antenna transmission line by transmitters
operating on carrier frequencies 2170 and
2190.5 kc/s shall not exceed 400 watts (Pp).

Reasons :

ADD

To specify the class of emission capability of coast stations on 2182 kc/s, to reduce the guard band on that frequency, and to stipulate a power limitation for the two single sideband frequencies thereby provided.

Background :

The guard band for the distress frequency 2182 kc/s is proposed to be reduced to 17 kc/s per second and the remaining seven kc/s divided into 2 assignable channels which would be limited to stations employing single sideband emissions. The amendment of No. 1325 (USA/16(1)) provides for this reduction. The amendment of No. 1337 (USA/16(3)) is a consequential amendment resulting from the proposed mandatory transition of the maritime mobile service to single sideband. It may be necessary to defer use of these channels until conversion is completed.

Ref. G/79(99) ADD 1339A \$ 8 (bis) When 2182 kc/s is being used for distress the frequency 2192.35 kc/s (carrier frequency 2191 kc/s) may be used by ships as a supplementary frequency for calling coast stations. During this period ship stations shall not use 2192.35 kc/s as an international working frequency in those areas where it is in use as a supplementary calling frequency. Reasons : To provide alternative calling arrangements during periods of distress working. I/31(2)ADD 1339- AA (5) During the transition period from double sideband to single sideband operation, in order to facilitate single sideband communications, the assigned frequency 2191.9 kc/s may also be used by ship stations for the exchange of traffic. Reasons : Bearing in mind the technical developments during the past years, the actual guard band of 2182 kc/s is no longer necessary and it may be reduced in order to improve utilization of the 1605 - 4000 kc/s band. The proposed reduction is compatible with transmitter frequency tolerance and receiver selectivity of survival craft stations. I/31(3) Add to Section II of Article 35 the new paraggraph D.bis D.(bis) - Conversion to single sideband Para. 8(bis) (1) The following schedule shall ADD 1339- AA be applicable when converting coast and ship stations on maritime radiotelephone channels from double sideband to single sideband : date from which coast stations shall be able ADD 1339- AB a) to transmit with single sideband : 1 January 1971; date on which coast stations shall discontinue ADD 1339-AC b) A3 emissions : 1 January 1973;

<u>Ref.</u>			
I/31(3) (contd.)	D	1339- AD	c) date from which no more new double sideband equipments on board ship shall be installed : 1 January 1971;
	ADD	1339-AE	d) date on which ship stations shall discontinue A3 emissions : 1 January 1980;
	ADD	1339-AF	(2) During the period of transition from double sideband to single sideband, coast and ship stations shall be able to use full carrier (A3H) emissions to permit communication with both double sideband and single sideband radiotelephone stations.

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Add to Section II of Article 35 the following paragraph D(ter)

<u>D(ter).</u> Technical and operational provisions relating to use of single sideband

ADD 1339-BA

1/31(4)

Para. 8(ter). (1) Definitions of carrier modes :

Carrier mode	Level N (db) of the carrier with respect to peak envelope power
Full carrier (A3H)	$0 \ge \mathbb{N} \ge -6$
Reduced carrier (A3A)	$-6 > N \ge -26$
Suppressed carrier (A3J)	-26 > N

ADD 1339-BB

ADD

(2) Mode of operation.

1339-BC Coast and ship station transmitters shall be capable of reducing carriers to the following levels below peak envelope power :

a) 16 db \pm 2 db for A3A emissions;

b) not less than 40 db for A3J emissions.

ADD 1339-BD

c) In actual operation, ship and coast stations shall utilize the carrier levels indicated, respectively, for A3H, A3A and A3J modes.

Ref.					
I/31(4) (contd.)	ADD	1339-BE			tion transmitters shall be ng in A3H, A3A and A3J.
	ADD	1339-BF		oast	80, A3H will no longer be station transmitters not on 2182 kc/s.
en Ser Ser Ser	ADD	1339-BG		(3)	Transmitter carrier frequencies shall be maintained within the following tolerances :
	ADD	1339-BH			(a) Coast stations : <u>+</u> 20 cycles per second;
•	ADD	1339-BI	-		(b) Ship stations: <u>+</u> 100 cycles per second;
~	ADD	1339-BJ			 (i) The short-term limits (of the order of 15 minutes) of ship stations shall be ± 40 cycles per second.
	ADD	1339-BK		(4)	Coast and ship stations shall use upper sideband emissions.
	ADD	1339 - BL		(5)	The transmitter audio-frequency band shall be 350 to 2700 cycles per second, with a permitted amplitude variation of 6 db.
	ADD	1339-BM		(6)	The unwanted frequency modulation of the carrier shall be sufficiently low to prevent harmful distortion.
	ADD	1339-BN		(7)	When using single sideband A3H, A3A or A3J transmission the mean power of any emission supplied to the antenna trans- mission line of a coast or ship station on any discrete frequency, shall be less than the mean power (Pm) of the transmitter in accordance with

ADD 1339-BO

	Frequency separation ∆ from the assigned frequency kc/s	Minimum attenuation below mean power (Pm) db
-	1.75≪ ∆ ≤ 5.25	25
	5.25< ∆ ≤ 8.75	35
	8 . 75 < Δ	43+10 log ₁₀ Pm(Watts)

the following table :

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<u>Ref.</u>					
I/31(4) (contd.)	ADD	1339-BP	Para. 8(quate	er). (Channel utilization
	ADD	1339-BQ		(9)	In the transition to single sideband, as provided by Nos. 1339-AA through 1339-AE (Proposal No. I/31(3)), each double sideband frequency bandwidth will comprise two single sideband frequencies of at least three kc/s each.
	ADD	1 33 9-BR		(10)	The division between the two single sideband frequencies,
					thus formed, will be at the double sideband carrier frequency. For the purpose of these regulations, during the transition to single side- band, these two frequencies, relative to the double sideband carrier frequency, are designat- ed as follows :
	ADD	1339-BS			(a) higher in frequency : upper channel; and
	ADD	1339-BT			(b) lower in frequency : lower channel.
	ADD	1339-BU		(11)	Stations using single sideband single channel emissions A3H, A3A and A3J in accordance with Nos. 1339-B0 through 1339-BS shall operate either in the upper channel or in the lower channel.
	ADD	1339-BV	Para. 8(quinqu frequencies	uies).	Assigned and carrier
	ADD	1339-BW		(12)	The assigned frequency of a station operating in the upper channel would be 1400cycles per second higher than the carrier frequency of the double side- band channel, and the carrier frequency would be the same as the carrier frequency of the double sideband channel.
	ADD	1339-by		· ·	The assigned frequency of a station operating in the lower channel would be 1600 cycles per second lower than the carrier frequency of the double sideband channel, and the carrier frequency would be 3000 cycles per second below the carrier frequency of the double sideband channel.

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I/31(4) Reasons :

(cont.)

J/84(22)

The proposal aims to take into account the power limits for single sideband emissions and the reduction of guard bandwidth of 2182 kc/s.

The above-mentioned power limits are calculated on the basis of the equivalent interfering effect of emissions, it having been shown by experience that the most important factor of the interference potential is provided by the mean power of the emissions.

From the table in the C.C.I.R. Doc. 1/1017 (Oslo, 1966) it results that, as far as interference potential is concerned, the peak envelope power/mean power ratio for A3H emission is more unfavourable than the one for A3A and A3J emissions, considering the case of modulation by smoothly read text.

The value of this ratio would be 6 db but, taking into consideration the fact that single sideband transmitters are frequently fitted with limiters or dynamic compressors, it seems to be more convenient to adopt the reduced value 5 db.

ADD	<u>1339A</u>	88a For the conduct of simplex telephony, all stations on ships making international
		voyages should be able to use :
ADD	<u>1339</u> B	(1) the ship-shore working frequency 2192 kc/s, if required by their service;
ADD	<u>13390</u>	(2) the intership frequency 2171.5 kc/s, if required by their service. This frequency may be used as an additional ship-shore frequency.

Reasons :

Two channels derived from the reduction of the guard band of 2182 kc/s make international frequencies for communications between land and ship or between ships for the technical and operational convenience of ship stations having the transmitter and receiver on spot frequency. This matter is in line with the purport of Recommendation No. 28 of the Ordinary Administrative Radio Conference, Geneva, 1959.

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<u>Ref.</u>		
USA/16(5)	D(bis).	Conversion to Single Sideband
ADI	D <u>1339AA</u>	§ 8(bis).(1) The following schedule shall be applicable in converting coast and ship stations on maritime mobile radiotelephone channels from double sideband to single sideband :
ADI	D <u>1339AB</u>	a) <u>Discontinue installation</u> of double sideband equip- ment on ship stations by 1 January 1970;
ADI	D <u>1339AC</u>	b) <u>Discontinue use by coast</u> stations of double sideband emission (see No. 1339BC) by 1 January 1970;
ADI	D <u>1339AD</u>	c) Discontinue use by ship stations of double side- band emission and by coast stations of full carrier (A3H) emission on 1 January 1975, except that coast stations shall retain the capability of operating with class A3H emission
		on 2182 kc/s.1)
ADI) <u>1339AE</u>	(2) During the period of transition from double sideband to single sideband, coast stations and single sideband ship stations shall have the capability of using full carrier (A3H) emission to permit communi- cation with both double sideband and single sideband radiotelephone stations.

· · ·	
ADD <u>1339.1AD</u>	1) Where necessary to meet circumstances peculiar to domestic operations of an adminis- tration, the discontinuance by ship and coast stations of double sideband emission may be extended to 1 January 1977.

USA/16(5) (contd.)

Reasons :

To provide a specific schedule for the mandatory transition from double to single sideband in the band 1605 -4000 kc/s.

Background :

The new sub-section "D(bis)" is proposed for addition to Article 35 as a means of including in the Radio Regulations mandatory provisions covering the transition of the maritime mobile service from double sideband to single sideband and the discontinuance of double sideband in accordance with a specific schedule. The date of 1975 has been selected in order to allow a period of eight years, from the date of the W.A.R.C., for completion of the transition to single sideband.

USA/16(6)

D(ter). Technical and Operational Provisions Relating to use of Single Sideband

ADD

§ 8(ter).(1) Definitions of carrier modes :

<u>Carrier mode</u>	Level N(db) of the carrier with respect to peak envelope power
Full carrier (A3H)	$0 \ge N \ge -6$
Reduced carrier (A3A)	$-6 > \mathbb{N} \ge -26$
Suppressed carrier (A3J)	<u>-26> N</u>

(2) Mode of operation : ADD 1339BB

<u>1339</u>BA

USA/16(6) ADD <u>1339BC</u> (contd.)

- a) Coast station transmitters operating on frequencies other than 2182 kc/s, shall be capable of operating with class A3A emissions having a carrier reduction of 16 + 2 db below peak envelope power and class A3J emission having a carrier reduction of not less than 40 db below peak envelope power. Coast station transmitters shall be capable of operating with class A3H emissions when authorized to operate on 2182 kc/s.
- b) Ship station transmitters shall be capable of operating with class A3H emission, class A3A emission having a carrier reduction of 16 + 2 db below peak envelope power, and class A3J emission having a carrier reduction of not less than 40 db below peak envelope power.
- c) In actual operation, ship and coast stations shall utilize the carrier levels indicated, respectively, for A3H, A3A and A3J modes.
- d) Notwithstanding the provisions of a), b) and c) above, stations operating solely in systems employing fewer than the three defined single sideband modes need not be equipped to operate in the unused modes.

ADD	1339BD
ADD	<u>1339BE</u>
ADD	<u>1339BF</u>

			- 348 -	
Ref.				
USA/16(6) (contd.)	ADD	<u>1339BG</u>	transmitters shall be m	ier frequency of aintained within the
			following tolerances :	
	ADD	<u>1339BH</u>		stations : \pm 20 c/s econd;
	ADD	<u>1339BI</u>		stations : $\pm 100 \text{ c/s}$ econd;
	ADD	<u>1339BJ</u>		the short term limits of the order of 15
			S	inutes) of ship stations hall be ± 40 c/s per econd.
	ADD	<u>1339BK</u>	<u>(4)</u> <u>Coast an</u> use upper sideband emis	d ship stations shall sions.
	ADD	<u>1339BL</u>	(5) The tran band shall be 350 to 27 a permitted amplitude v	
				· · · · · · · · · · · · · · · · · · ·
	ADD	<u>1339BM</u>	(6) The unwa lation of the carrier s low to prevent harmful	
	ADD	<u>1339BN</u>	A3H, A3A or A3J emissio any emission supplied t mission line of a coast any discrete frequency,	o the antenna trans- or ship station on shall be less than the transmitter in
	ADD	1339BO		
			$\frac{\text{frequency separation }\Delta}{\text{from the assigned}}$	Minimum attenuation below mean power (Pm) db
			<u>1.75 < ∆ ≤5.25</u>	25
			5.25 < ∆ ≤ 8.75	35
			$8.75 < \Delta$	43+10 Log ₁₀ Pm(Watts)
			+	
L	ADD	1339BP	<u>§ 8(quater).</u> Channel ut	<u>vilization</u>
1	ADD	<u>1339BQ</u>	(9) In the tr sideband, as provided by 1339AE, each double side least six kc/s bandwidth single sideband frequenc kc/s each.	band frequency of at will comprise two

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		L.	
			- 349 -
<u>Ref.</u>		• •	
USA/16(6) (contd.)	ADD	<u>1339BR</u>	(10) The division between the two single sideband frequencies, thus formed, will be at the double sideband carrier frequency. For the purpose of these regu- lations during the transition to single sideband, these two frequencies, relative to the double sideband carrier frequency are designated as follows :
	ADD	<u>1339BS</u>	a) <u>higher in frequency</u> : upper channel; and
	ADD	<u>1339BT</u>	b) <u>lower in frequency</u> : <u>lower channel</u>
	ADD	<u>1339BU</u>	(11) Stations using single sideband single channel emissions A3H, A3A and A3J in accordance with Nos. 1339BP through 1339BT shall operate either in the upper channel or in the lower channel.
	ADD	<u>1339BV</u>	<u>8 8(quinquies)</u> . Assigned and carrier <u>frequencies</u>
	ADD	<u>1339BW</u>	(12) The assigned frequency of a station operating in the upper channel would be 1400 c/s per second higher than the carrier frequency of the double sideband channel, and the carrier frequency would be the same as the carrier frequency of the double side- band channel.
- - - - - - - - - - 	ADD	<u>1339BX</u>	(13) The assigned frequency of a station operating in the lower half channel would be 1600 c/s per second lower than the carrier frequency of the double sideband channel, and the carrier frequency would be three thousand cycles per second below the carrier frequency of the double sideband channel.
	ADD	<u>1339BY</u>	(14) If an administration assigns frequencies other than as indicated above, its radiotelephone service shall not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequencies assigned to them in accordance with this Article.
	ADD	<u>1339BZ</u>	(15) The classes of emission used as the normal methods of operation for each coast station shall be indicated in the List of Coast Stations.

USA/16(6) (contd.)

<u>Reasons</u> :

To include in the Radio Regulations technical and operational provisions necessary to support the transition to single sideband in the bands between 1605 and 4000 kc/s; to make a consequential amendment to No. 1350; to amend No. 1351 to provide for the use that can be made in Regions 2 and 3, of the two single sideband frequencies obtained by the reduction of the guard band of 2182 kc/s.

Background :

The technical characteristics follow those developed by the C.C.I.R. XI Plenary Assembly, Oslo, 1966.

Proposals relating to Article 35

Section II.

N° 1341, 1342, 1344, 1345, 1350 and 1351

E. Additional Provisions Applying to Region 1

- 1340 § 9. (1) The provisions of this sub-section apply only to stations of the maritime mobile service.
- 1341 (2) The carrier power of mobile radiotelephone stations operating in the authorized bands between 1 605 and 2 850 kc/s shall not exceed 100 watts.
- 1342 (3) The carrier power of coast radiotelephone stations, operating in the authorized bands between 1 605 and 3 800 kc/s, shall be limited to :
 - 2 kilowatts for coast stations located north of latitude 32°N;
 - 3.5 kilowatts for coast stations located south of latitude 32°N.
- 1343 § 10. (1) All stations on ships making international voyages should be able to use :
- 1344
- a) the ship-shore working frequency 2 049 kc/s, if required by their service;
- 1345
- b) the intership frequency 2056 kc/s, if required by their service. This frequency may be used as an additional
- 1346 (2) These frequencies shall not be used for working between stations of the same nationality.

ship-shore frequency:

F. Additional Provisions Applying to Regions 1 and 3

- 1349 § 12. (1) In order to increase the safety of life at sea and over the sea, all stations of the maritime mobile service normally keeping watch on frequencies in the authorized band between 1 605 and 2 850 kc/s shall, during their hours of service, and as far as possible, take steps to keep watch on the international distress frequency 2 182 kc/s for three minutes twice each hour beginning at x h. 00 and x h. 30 Greenwich Mean Time (G.M.T.)¹.
- 1350 (2) During the periods mentioned above, except for the transmissions provided for in Article 36, transmissions shall cease within the band 2 170-2 194 kc/s.

G. Additional Provisions Applying to Regions 2 and 3

1351 § 13. All stations on ships making international voyages should be able to use the intership frequency 2 638 kc/s, if required by their service.

1349.1¹ In Region 3, this Regulation does not apply to Japan and the Philippines.

F/8(36) No. 1341 Replace the present text by the following :

(2) The peak envelope power (1) of mobile stations operating in the authorized bands between 1605 and 2850 kc/s shall not exceed 400 watts.

Reasons :

Ref.

To replace the expression of the carrier power of DSB transmitters by the expression of the peak envelope power of SSB transmitters.

F/8(37) No. 1342 Replace the present text by the following :

(3) The peak envelope power (1) of coast radiotelephone stations operating in the authorized bands between 1605 and 3800 kc/s shall be limited to :

- 8 kilowatts for coast stations located north of latitude 32°N;
- 14 kilowatts for coast stations located south of latitude 32°N.

Reasons :

See Proposal No. F/8(36) relating to No. 1341.

F/8(38) No. 1344 Replace the present text by the following :

a) at least one of the ship-shore working frequencies 2047.35 kc/s (carrier frequency 2046 kc/s),2050.65 kc/s (carrier frequency 2049.3 kc/s) and 2172.15 kc/s (carrier frequency 2170.8 kc/s) if required by their service;

Reasons :

Consequence of the use of SSB.

F/8(39)

No. 1345 Replace the present text by the following :

b) at least one of the intership frequencies 2054.35 kc/s(carrier frequency 2053 kc/s) and 2057.65 kc/s (carrier frequency 2056.3 kc/s) if required by their service; these frequencies may be used as supplementary "ship-shore" frequencies.

Reasons :

1341

MOD

Consequence of using SSB.

G/76(30)

(2) The power of mobile radictelephone stations, operating in the authorized bands between 1605 and 2850 kc/s shall not exceed the following :

- 100 watts (Pc) for classes A3 and A3H emissions;
- 400 watts (Pp) for classes A3A and A3J emissions.

Reasons :

To take account of single sideband operation.

MOD

1342

1344A

1344B

(3) The power of coast radiotelephone stations operating in the authorized bands between 1605 and 3800 kc/s shall not exceed the following :

- Coast stations located north of latitude 32 N	(2 kilowatts (Pc) for (class A3 and A3H emissions. (8 kilowatts (Pp) for (classes A3A and A3J (emissions.
- Coast stations	(3.5 kilowatts (Pc) for

- Coast stations	(3.5 KILOWATTS (PC) IOP
located south of	(class A3 and A3H emissions.
latitude 32 N	(14 kilowatts (Pp) for class
	(A3A and A3J emissions.

Reasons :

To take account of single sideband operation.

ADD

ADD

aa) the ship-shore working frequencies
2047.35 kc/s (carrier frequency 2046 kc/s,
and 2050.35 kc/s (carrier frequency 2049 kc/s),
if required by their service;

G/79 (99)

ab) the ship-shore working frequency 2192.35 kc/s (carrier frequency 2191 kc/s).

Reasons :

To provide for the use of an SSB channel consequent upon the reduction of the guard-band for 2182 kc/s.

Ref.			
G/76(30)	ADD	1345A	ba) the intership frequencies 2054.35 kc/s (carrier frequency 2053 kc/s) and 2057.35 kc/s (carrier frequency 2056 kc/s), if required by their service. These frequencies may be used as additional ship-shore frequencies.
	<u>Reasons</u> :		
· · · · ·		Consequ	ential upon conversion to single-sideband
	operation	۱.,	
HOL/70(4)	MOD	1341	(2) The <u>carrier peak envelope</u> power of mobile radiotelephone stations operating in the authorized bands between 1605 and 2850 kc/s shall not exceed 100 <u>400</u> watts.
	MOD	1342	(3) The <u>carrier peak envelope</u> power of coast radiotelephone stations, operating in the authorized bands between 1605 and 3800 kc/s, shall be limited to :
		•	- 28 kilowatts for coast stations located north of latitude 32° N;
			- 3-5 14 kilowatts for coast stations located south of latitude 32° N.
	Reasons :		
	level for		ide in the Radio Regulations a comparable power sideband emissions.
	•		
I/31(5)			Modify Section II - paras. E and F - of Article 35 as follows :
	MOD 1341	4	(2) The power of mobile radiotelephone stations, operating in the authorized bands between 1605 and 2850 kc/s, shall not exceed :
			100 watts (carrier power) for A3 emissions;
			300 watts (p.e.p.) for A3A, A3H, A3J emissions.
	MOD 1342	Ċ	3) The power of coast radiotelephone stations, operating in the authorized bands between 1605 and 3800 kc/s, shall be limited as follows :

I/31(5) (contd.)

- a) for coast stations located north of latitude 32° N :
 - 2 kilowatts (carrier power) for A3 emissions;
 - 6 kilowatts (p.e.p.) for A3A, A3H, A3J emissions;
- b) for coast stations located south of latitude 32° N :
 - 3.5 kilowatts (carrier power) for A3 emissions;
 - 10.5 kilowatts (p.e.p.) for A3A, A3H, A3J emissions.

Reasons :

The proposal aims to take into account the power limits for single sideband emissions and the reduction of guard bandwidth of 2182 kc/s.

The above-mentioned power limits are calculated on the basis of the equivalent interfering effect of emissions, it having been shown by experience that the most important factor of the interference potential is provided by the mean power of the emissions.

From the table in the C.C.I.R. Doc. I/1017 (Oslo, 1966) it results that, as far as interference potential is concerned, the peak envelope power/mean power ratio for A3H emission is more unfavourable than the one for A3A and A3J emissions, considering the case of modulation by smoothly read text.

The value of this ratio would be 6 db but, taking into consideration the fact that single sideband transmitters are frequently fitted with limiters or dynamic compressors, it seems to be more convenient to adopt the reduced value 5 db.

POL/81(1)	MOD	1341	(2) The carrier <u>peak envelope</u> power of mobile radiotelephone stations operating in the authorized bands between 1605 and 2850 kg/s shall not exceed 100 500 watts.
	MOD	1342	(3) The earrier peak envelope power of coast radiotelephone stations, operating in the authorized bands between 1605 and 3800 kc/s, shall be limited to :
			 2 10 kilowatts for coast stations located north of latitude 32° N,
			- $3-5$ <u>15</u> kilowatts for coast stations located south of latitude 32° N.

POL/81(1) (contd.)

Ref.

The proposal to modify the definition of power of radiotelephone transmitters in maritime mobile service stations operating in the authorized bands between 1605 and 3800 kc/s.

357 -

Reasons :

The introduction of A3A and A3J emissions into the maritime mobile service causes the difficulty of proper interpretation of the said Radio Regulations numbers where only carrier power is limited.

The purpose of these limitations was to prevent superfluous interference caused by remote stations operating in the same frequency band and it is necessary too to limit the power of single sideband transmitters both with the reduced and suppressed carriers. The proposed limitation of peak envelope power comprises both single sideband and double sideband emissions.

F/8(40) No. 1350 Replace the present text by the following :

> During the periods mentioned above, except for the (2)transmissions provided for in Article 36, transmissions shall cease on the frequencies between 2173.5 and 2190.5 kc/s.

Reasons :

See Proposal No. F/8(1) relating to No. 442.

F/8(41)

No. 1351 Replace the present text by the following :

All stations on ships making international voyages should be able to use the intership frequency 2639.65 kc/s (carrier frequency 2638.3 kc/s if required by their service.

Reasons :

Although this question primarily concerns Regions 2 and 3, it is proposed that the two SSB frequencies replacing the DSB frequency 2638 kc/s should be used :

- one for intership traffic,

- the other for requirements to be defined in Regions 2 and 3.

, D. C				
Ref.				
G/79 (99)	MOD 1	.350	2) During the periods mentioned above, except for	the
			transmissions provided for in Article 36, transmiss	ions
		. · · · ·	shall cease within the band 2173.5 - 2190.5 kc/s.	
	Reasons :			
		Conseque	nt upon the amendment to No. 1325.	
· · · ·	·	•		
HOL/70(4)	MOD	1350	(2) During the periods mentioned above,	
			except for the transmissions provided for	
			in Article 36, transmissions shall cease	
			within the band 2170-2194 2173.5 -	
			2190.5 kc/s.	
· .	Reasons :			
2		See prop	osal relating to No. 1325.	
I/31(5)	MOD 1350) (2) During the period mentioned above, except	
			or the transmissions provided for in Article 36,	
		. t	ransmissions within the band 2173.5 - 2190.5 kc/s	
		S	hall cease.	
	1			
J/84(23)	MOD	1350	(2) During the periods mentioned above,	
0/0/(2)/	1102			
			except for the transmissions provided for in Article 36, transmissions shall cease within	
			the band 2170 2173.5 - 2194 2190.5 kc/s.	
	Reasons :			
	Reasons .			
			ral ral other to N = 1707 (T/0)(10))	
	h.	nee propo	sal relating to No. 1325 $(J/8^{1/2}(19))$.	
	1			
J/84(24)	MOD 1	751	S 17 All stations on white welting interest	
0/04(24)	MOD 1	.351	\$ 13. All stations on ships making inter-	
			national voyages should be able to use the	
			intership frequency 2638 2639.5 kc/s, if	
			required by their service.	
	BARGONG -			
	Reasons :			
	· · · · · ·			
	S	ee propo	sal relating to No. 445 (J/84(2)).	
			·	
	r -			

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<u>Ref.</u>

USA/16(7)

MOD

(2) During the periods mentioned above, except for the transmission provided for in Article 36, transmissions shall cease within the band 2170 2173.5 - 2194 2190.5 kc/s.

G. Additional provisions applying to Regions 2 and 3

USA/16(8)

MOD 1351

1350

§ 13. All stations on ships making international voyages should be able to use the intership frequency 2638 kc/s and, when using single sideband, the intership frequencies whose carriers are 2170 and 2190.5 kc/s, if required by their service.

Reasons :

To include in the Radio Regulations technical and operational provisions necessary to support the transition to single sideband in the bands between 1605 and 4000 kc/s; to make a consequential amendment to No. 1350; to amend No. 1351 to provide for the use that can be made in Regions 2 and 3, of the two single sideband frequencies obtained by the reduction of the guard band of 2182 kc/s.

Background :

The technical characteristics follow those developed by the C.C.I.R. XI Plenary Assembly, Oslo, 1966.

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Proposals relating to Article 35

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Section III. Bands between 4000 and 23000 kc/s N° 1352 - 1358

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Section IV. Bands between 156 and 174 Mc/s N° 1363

Section III. Bands between 4 000 and 23 000 kc/s

A. Call, Reply and Safety

1352 § 14. In the bands authorized for radiotelephony, ship stations may use, for calling, one of the following frequencies :

8 269	kc/s
12 403.5	kc/s
16 533·5	kc/s
22 074	kc/s

1353 § 15. In that part of the Tropical Zone situated in Region 3, 6 204 kc/s using double sideband emissions is designated for call, reply and safety purposes. It may also be used for messages preceded by the urgency or safety signals and, if necessary, for distress messages.

B. Watch

1354 § 16. Coast stations open to public correspondence may, optionally, maintain watch on the calling frequencies listed in No. 1352. Stations maintaining this watch shall be indicated in the List of Coast Stations.

C. Traffic

- 1355 § 17. (1) For the conduct of duplex telephony, the frequencies of emission of the coast stations and of the corresponding ship stations shall be associated in pairs, as far as possible, as indicated in Appendix 17.
- 1356 (2) The single sideband working frequencies given in SectionB of Appendix 15 are intended to encourage the use of single sideband operation.
- 1357 (3) Administrations may assign these frequencies to ships of any category according to traffic requirements.
- 1358 (4) The Recommandations of the C.C.I.R. should be used as a guide in the design of equipment intended to operate in these bands.

Section IV. Bands between 156 and 174 Mc/s

A. Call, Reply and Safety

1363 (5) All emissions in the band 156 725-156 875 Mc/s capable of causing harmful interference to the authorized transmissions of stations of the maritime mobile service on 156 80 Mc/s are forbidden. F/8(42)

Under the title : Section III - Bands between 4000 and 23000 kc/s, insert the following No. 1351a :

1351a Unless otherwise specified in the Regulations (see Nos. 1353 and 1355 bis), the class of emission to be used in the bands between 4000 and 23000 kc/s shall be class A3A or class A3J using the upper sideband and with the necessary bandwidth not exceeding 2.7 kc/s.

Reasons :

It seemed necessary to state that, for Section III as a whole, the upper sideband must always be used in the SSB system.

Furthermore, it seems advisable to indicate the classes of emission to be used.

F/8(43) No. 1352 Delete this number

Reasons :

See Proposal No. F/8(8) relating to No. 450.

F/8(44) No. 1353 Replace the present text by the following :

In that part of the Tropical Zone situated in Region 3, 6205.35 kc/s (carrier frequency 6204 kc/s), using class A3H emissions, is designated for call, reply and safety purposes. It may also ... (the rest of the number unchanged).

Reasons :

The carrier frequency of the DSB emission on 6204 kc/s would be retained for SSB emissions, as proposed for 2182 kc/s, Since 6204 kc/s is for use by stations operating with SSB or DSB, class A3H emissions are necessary.

F/8(45) No. 1354 Replace the present text by the following :

For each coast station open to public correspondence the List of Coast Stations shall indicate the frequencies on which watch is maintained.

Reasons :

Consequence of the deletion of No. 452 (F/8(10)).

F/8(46) After No. 1355 add the following :

1355a When the amount of traffic requires it and the frequency allotments permit it (Appendix 25), the use of class A3B emissions is authorized. The carrier frequency to be used is the highest carrier frequency in the two adjacent channels allotted.

Reasons :

To clarify the conditions for use of class A3B emissions.

F/8(47) No. 1356 Delete this number

Reasons :

See Proposal No. F/8(7) relating to No. 449.

F/8(48) No. 1357 Delete this number

Reasons :

See Proposal No. F/8(7) relating to No. 449.

F/8(49)

No. 1358 Delete this number

Reasons :

The technical characteristics of SSB transmitters must be stated. See Proposal below (F/8(51)) relating to Appendix 17 A.

G/76(31)

Section III - Bands between 4000 and 23 000 kc/s

under title :

ADD

1351A Unless otherwise specified in these regulations, the class of emission to be used shall be class A3A or class A3J using the upper sideband mode and a bandwidth not exceeding 2.7 kc/s; the normal method of operation for each coast station shall be indicated in the List of Coast Stations.

Reasons :

To specify the types of emission and use of the upper sideband mode in all cases.

Ref.

<u>Ref.</u>			
G/77(42)	SUP	1352	
	<u>Reasons</u> :		
	Appendix	Consequent 15, and mod	tial upon the deletion of Section B, Aification of No. 453 (G/77(39) above).
		Under "B.	Watch"
G/78 (95)	ADD	1353A	§ 15 (bis) The hours of service of coast stations open to public correspondence and the frequency or frequencies on which watch is maintained shall be indicated in the List of Coast Stations.
	Reasons :		
		To provide	e for watchkeeping arrangements.
J/77(42)	SUP	1354	
	Reasons :		
		Consequen	tial upon deletion of No. 1352.
	SUP	1356 and 1	1357
	<u>Reasons</u> :		
	Appendix	Consequen 15.	tial upon the deletion of Section B,
G/76(31)	MOD Reasons :	1358	(4) Equipment intended for use on radio- telephony in these bands should conform to the Recommendations of the C.C.I.R. and other technical standards in Appendix 17A.

To provide for single sideband operation.

HOL/72(11)

Article 35

See also proposals relating to Agenda Item 1 (HCL/70(4), Document No. 70).

Section III. Bands between 4000

and 23000 kc/s

Call, Reply and Safety Α.

1352

In the bands authorized for radio-§14. telephony, ship stations may use, for calling, one of the following frequencies :

	4140.5	kc/s
8269	8284.5	kc/s
12403-5	12429	kc/s
16533.5	16573	kc/s
22074	22096	kc/s

Reasons :

See proposal relating to No. 450 (HOL/72(9)).

SUP 1356

Reasons :

After the mandatory conversion to single sideband No. 1356 is unnecessary.

MOD

1357 (2) Administrations may assign these the frequencies of Section B of Appendix 15 to ships of any category according to traffic requirements and to coast stations for single sideband single channel simplex operation. Such stations shall not use a power in excess of 1 kW peak envelope power.

Reasons :

See proposal relating to Agenda Item 3, No. 449 (HOL/72(9)).

MOD

I/33(21)

As a consequence of the suppression of Section B of present Appendix 15, <u>delete No. 1352 in</u> <u>Article 35</u>.

In Proposal No. I/33(18) it is suggested that the band limits for radiotelegraph coast stations be modified. It is therefore necessary to adopt provisions to allow for the maintaining of the date in the appropriate part of Column 2 to these of the assignments recorded in the Master Register, that must be reallotted. To this end, insert the following Resolution in the Radio Regulations.

I/	3	1(6)	
•					

In Section III of Article 35 delete Nos. 1356, 1357 and 1358

Reasons :

Consequently to the new arrangement of Appendices 15 and 17 proposed under Agenda item No. 3, (Document No. 33) prescriptions of Nos. 1356 through 1358 are to be deleted.

J/84 (25) SUP 1352

Reasons :

Consequential to the proposed amendment of Nos. 449 (J/84(3)) and 450 (J/84(4)).

J/84(26) MOD 1354 <u>\$16. For each coast station open to public</u> correspondence, the List of Coast Stations shall indicate the frequencies on which watch is maintained.

Reasons :

Consequential to the proposed amendment of Nos. 449 (J/84(3)) and 450 (J/84(4)).

J/84(27)

1355

\$17. (1) For the conduct of duplex telephony, the frequencies of emission of the coast stations and of the corresponding ship stations shall be associated in pairs, as far as possible, as indicated in <u>Section A of</u> Appendix 17.

Reasons :

MOD

Consequence of changing the Table of Transmitting Frequencies of APPENDIX 17 into SECTION A of APPENDIX 17.

J/84(28)

(2) The single sideband working frequencies
given in Section B of Appendix <u>17 are used</u>
for the conduct of simplex telephony. However,
the class of emissions is limited to A3J. In
addition, the peak envelope power of coast
station transmitters using these frequency
bands shall not exceed 1 kW (P_p) .

Reasons :

MOD

1356

For conversion to SSB system of DSB system for the maritime mobile radiotelephony, it is desirable to use frequency bands in new Section B of Appendix 17 for communications between ships or between ship and land for simplex operation, and for efficient utilization of these frequency bands, to limit emissions to class A3J emissions and restrict power for use in a coast station to 1 kW (P_p).

J/84(29)	SUP	1357
	501	エノノ

Reasons :

Consequential to the proposed amendment of Appendix 15.

J/84(30)

SUP

1358

Reasons :

Item 2.2 :

See proposal relating to No. 1322A (J/84(17)).

USSR/49(3)

It is recommended that the possibility be considered of improving the safety service by allocating for radiotelephone traffic between ships engaged in search and rescue operations an additional frequency in the 3155 - 3200 kc/s band, for example 3158 ± 3 kc/s, used exclusively by the Maritime Mobile Service; this would be at the expense of the mobile and fixed stations. It is also recommended that the right to use frequency 6204 kc/s for this service (see No. 1353 of the Radio Regulations) be extended to all regions of the world.

Ref.	

USA/16(8)	NOC	13 52 an	d 1353 A. Call,
			reply and safety
	NOC	1354	B. Watch
USA/16(9)	NOC	1355	
	SUP	1356	
	MOD	1357	(2) Administrations may assign these the frequencies of Section B of Appendix 15 to ships of any category according

Appendix 1	. <u>5</u> to s	hips of	any ca	tegory	acc	ording
to traffic	requi	rements	and to	coast	sta	tions
for single	sideb	and sin	gle cha	nnel s	impl	.ex
operation.	Such	statio	ns shal	l not	use	power
in excess	of 1 k	W Pn.		•		
		P			÷.,	

SUP 1358

Reasons :

To provide for the simplex use by coast stations of the frequencies of Appendix 15B to the Radio Regulations. To delete No. 1358, consequential to the insertion of Section E below (USA/16(11)).

USA/17(14)

Amend No. 1357 to permit the use of the $6 \, \text{Mc/s}$ SSB channels contained in Appendix 15, Section B, by both coast and ship radiotelephone stations on a simplex basis. (See U.S. proposals in response to Agenda Item 1, Document No. 16).

Reasons :

The 6 Mc/s SSB frequencies referred to in No. 449 and in Appendix 15, Section B, are available only to ship stations and are therefore of limited usefulness to administrations having little or no requirement for HF intership communication. Amendment of No. 1357 as indicated would provide for both coast and ship stations using SSB radiotelephony.

Use on board ships of frequencies of the order of 27 MHz

F/15(91) Article 35 - Insert the following Section III bis :

Section III bis - Bands between 26.1 and 27.5 MHz

1358 a) Frequencies in the 26.960 - 27.280 MHz band may be used for radiotelephony between different parts of a ship. The carrier wave power may not exceed 0.05 watt. The provisions of No. 225 shall apply.

Reasons :

ADD

To permit the use of low-power portable equipment operating in the 27 MHz band for very short-distance intercommunication on board ship.

F/109(105)

1359A

"(1 bis) the frequency 156.80 Mc/s is used in class F2 emission by coast stations for selective calls to ships." <u>Ref.</u>

I/31(7)

		Add to Section III of Article 35 the following new para. D
		D. Conversion to single sideband
ADD	1358- AA	Para. 17(bis) (1) The following schedule shall be applicable when converting coast and ship stations on maritime radiotelephone channels from double to single sideband :
ADD	1358-AB	a) date from which coast stations shall be able to transmit with single sideband : 1 January 1971;
ADD	1358-AC	b) date on which coast stations shall discontinue A3 emissions : 1 January 1971;
ADD	1358-AD	c) date from which no more new double sideband equipments on board ships shall be installed : l January 1971;
ADD	1358-AE	d) date on which ship stations shall discontinue A3 emissions : 1 January 1977.
ADD	1358 - AF	During the period of transition from double side- band to single sideband, coast stations shall be able to use full carrier (A3H) emissions to permit communication with both double sideband and single
•		sideband radiotelephone stations.
		Add to Section III of Article 35 the following new para. E
		E. Technical and operational provisions relating to use of single sideband
ADD	1358-BA	Para. 17(ter). (1) Definitions of carrier modes :

Carrier mode	Level N (db) of the carrier with respect to peak envelope power
Full carrier (A3H)	$0 \ge N \ge -6$
Reduced carrier (A3A)	$-6 > \mathbb{N} \ge -26$
Suppressed carrier (A3J)	-26 > N

I/31(8)

Ref.			
I/31(8) (contd.)	ADD	1358-BB	(2) Mode of operation
(conta.)	ADD	1358-BC	Coast and ship station transmitters shall be capable of reducing carriers to the following levels below peak envelope power :
			a) 16 db <u>+</u> 2 db for A3A emissions;
			b) not less than 40 db for A3J emissions.
	ADD	1358-BD	c) In actual operation, ship and coast stations shall utilize the carrier levels indicated, respectively, for A3H, A3A and A3J.
	ADD	1358-BE	Coast and ship station transmitters shall be capable of operating in A3H, A3A and A3J.
	ADD	1358-BF	After 1 January 1977, A3H will no longer be required.
	ADD	1358-BG	<pre>(3) The carrier frequency of transmitters shall be main- tained within the following tolerances :</pre>
	ADD	1358-BH	a) Coast stations : <u>+</u> 20 cycles per second;
	ADD	1358-BI	b) Ship stations : <u>+</u> 100 cycles per second.
	ADD	1358 - BJ	i) The short-term limits (of the order of 15 minutes) of ship stations shall <u>+</u> 40 cycles per second.
	ADD	1 3 58 - BK	(4) Coast and ship stations shall use upper sideband emissions.
	ADD	1358-BL	(5) The transmitter audio-frequency band shall be 350 to 2700 c/s per second, with a permitted amplitude variation of 6 db.
	ADD	1358-BM	 (6) The unwanted frequency modu- lation of the carrier shall be sufficiently low to prevent harmful distortion.

I/31(8) (contd.) (7) When using single sideband A3H, A3A or A3J transmissions the mean power of any emission supplied to the antenna transmission line of a coast or ship station on any discrete frequency, shall be less than the mean power (Pm) of the transmitter in accordance with the following table :

ADD 1358-BO

1358-BN

ADD

Frequency separation Δ from the assigned frequency kc/s	Minimum attenuation below mean power (Pm) db
1.75 < ∆ ≤5.25	25
5.25 < ∆ ≤ 8.75	35
8.75 < Δ	43+10 log ₁₀ Pm(Watts)

ADD 1358-BP

ADD

Para. 17(quater) (1) Channel utilization

ADD 1358-BQ a) A station employing single sideband emissions /Transferred from Appendix 17, para. 3 and modified/ bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for single sideband emissions in accordance with the Table.

> b) A station employing independent sideband emissions shall be considered to be in accordance with the Table of Appendix 17 if the necessary bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for double sideband emissions in accordance with the Table.

ADD 1358-BS c) /Transferred from Appendix 17, para. 3 and modified/

1358-BR

/Transferred

modified/

from Appendix 17, para. 3 <u>a</u>nd

> Stations employing double sideband emissions (A3) or two channel independent sideband emissions (A3B) shall operate with assigned frequencies of the appropriate values listed in the Table of Appendix 17 for A3 emissions.

Ref.		
I/31(8) (contd.)	ADD 1358-BT d) /Transferred from Appendix 17, para. 3.2 and modified/	Stations employing single sideband single channel emissions (A3A, A3H or A3J) shall operate with assigned frequencies at the appropriate values listed in the Table of Appendix 17.1)
	ADD 1358-BU (2)	Assigned frequency.
	ADD 1358-BV a)	The assigned frequency of a station employing single sideband (A3A, A3H or A3J) will be 1400 c/s per second higher than the carrier frequency. Both assigned and carrier frequen- cies are shown in the Table of Appendix 17.
	ADD 1358-BW b) /Transferred from Appendix 17, para. <u>4</u> /	If an administration assigns frequencies other than those indicated above, its radiotelephone service shall not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequen- cies assigned to them in accordance with Appendix 17.

ADD 1358.1-BT

Independent sideband emission may be used by agreement between the administrations concerned and affected in those instances where adjacent single sideband channels are assigned to a coast station.

Reasons :

Such modifications are a consequence of the conversion to single sideband technique of maritime mobile stations operating in the band between 1605 and 4000 kc/s.

<u>Ref.</u>			
USA/16(10)	ADD	<u>D.</u> C	Conversion to Single Sideband
	ADD	<u>1358AA</u>	<u>17(bis). (1)</u> The following schedule shall be applicable in converting coast and ship stations on maritime mobile radiotelephone channels from double sideband to single sideband :
	ADD	<u>1358AB</u>	a) Discontinue installation of double sideband equip- ment on ship stations by 1 January 1970;
	ADD	<u>1358AC</u>	b) Discontinue use by coast stations of double sideband emission by 1 January 1970;
	ADD	<u>1358AD</u>	c) <u>Discontinue use by ship</u> <u>stations of double sideband</u> <u>emission and by coast</u> <u>stations of full carrier</u> (A3H) emission on 1 January 1974.
	ADD	<u>1358AE</u>	(2) During the period of transition from double sideband to single sideband, coast stations shall have the capability of using full carrier (A3H) emission to permit communication with both double sideband and single sideband radiotelephone ship stations.

Reasons :

To provide a specific schedule for the mandatory transition from double to single sideband.

Background :

The new sub-Section "D" is proposed for addition to Article 35 as a means of including in the Radio Regulations mandatory provisions for the transition of the maritime mobile service to single sideband and the discontinuance of double sideband in accordance with a specific schedule. The date of 1974 has been selected to allow a period of seven years, from the date of the W.A.R.C., for completion of the transition to single sideband. USA/16(10) (contd.)

The national regulations of the U.S. provide for the transition from double to single sideband to be completed by 1 January 1974, on a mandatory basis.

USA/16(11)

E. Technical and operational provisions relating to use of single sideband

ADD

1358BA

ADD

<u>§ 17(ter).(1)</u> Definitions of carrier modes :

Carrier mode	Level N(db) of the carrier with respect to peak envelope power
Full carrier (A3H)	$\underline{O \geq N \geq - 6}$
Reduced carrier (A3A)	<u>-6> N≥ -26</u>
Suppressed carrier(A3J)	<u>-26> N</u>

ADD <u>1358BB</u> ADD <u>1358BC</u>

1358BD

ADD

(2) Mode

Mode of operation :

- a) Coast station transmitters shall be capable of operation with class A3A emission having a carrier reduction of 16 ± 2 db below peak envelope power and class A3J emission having a carrier reduction of not less than 40 db below peak envelope power.
- b) Ship station transmitters shall be capable of operation with class A3A emission having a carrier reduction of 16 ± 2 db below peak envelope power and class A3J emission having a carrier reduction of not less than 40 db below peak envelope power.

		· · · · · ·			
•	Ref.				
	USA/16(11) (contd.)	ADD	<u>1358BE</u>		c) In actual operation, ship and coast stations shall utilize the carrier levels indicated respectively for the modes employed.
		ADD	<u>1358BF</u>		d) Notwithstanding the pro- visions of a), b) and c) above, stations operating solely under the provision of No. 1357 may be equipped for class A3J emission only.
		ADD	<u>1358BG</u>	(3) transmitters sh following toler	The carrier frequency of nall be maintained within the rances :
		ADD	<u>1358BH</u>		a) Coast stations : $\pm 20 \text{ c/s per second};$
		ADD	<u>1358BI</u>		b) Ship stations : $\frac{\pm 100 \text{ c/s per second}};$
					i) The short term limits (of the order of 15 minutes) of ship stations shall be ± 40 c/s per second.
		ADD	<u>1358BJ</u>	<u>(4)</u> use upper sideb	Coast and ship stations shall pand emissions.
		ADD	<u>1358BK</u>	band shall be 3	The transmitter audio-frequency 50 to 2700 c/s per second, with plitude variation of 6 db.
		ADD	<u>1358BL</u>	modulation of t	The unwanted frequency the carrier shall be sufficient- ent harmful distortion.
		ADD	<u>1358BM</u>	A3H, A3A or A3J any emission su mission line of any discrete fr the mean power	When using single sideband emission the mean power of pplied to the antenna trans- a coast or ship station on equency, shall be less than (Pm) of the transmitter in the following table :

.

USA/16(11) (contd.)

1358BN

Frequency separation Δ from the assigned frequency kc/s	<u>Minimum attenuation</u> <u>below mean power (Pm)</u> <u>db</u>
<u>1.75 < ∆ ≤5.25</u>	25
<u>5.25 < Δ ≤8.75</u>	35
<u>8.75 < Δ</u>	43+10 Log ₁₀ Pm(Watts)

Channel utilization

ADD 1358BO

ADD

 $17(quater) \cdot (1)$

MOD 1358BP /Transferred from Appendix 17, paragraph <u>3</u>/

MOD 1358BQ /Transferred from Appendix 17, paragraph <u>3</u>/

- a) Assignments-te <u>A</u> stations utilizing single sideband er-independent-sideband emissions shall be considered to be in accordance with the Table of <u>Appendix 17</u> if the necessary bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for <u>deuble single</u> sideband emissions in accordance with the Table <u>of</u> <u>Appendix 17</u>.
- b) Assignments-te <u>A</u> stations utilizing single-sideband-or independent sideband emissions shall be considered to be in accordance with the Table of <u>Appendix 17</u> if the necessary bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for double sideband emissions in accordance with the Table <u>of</u> <u>Appendix 17</u>.

USA/16(11) (contd.)

MOD 1358BR /Transferred from Appendix 17, paragraph 3.1/

MOD 1358BS /Transferred from Appendix 17, paragraph 3.2/

ADD	<u>1358B</u> T
ADD	1358BU

1358.1BS

ADD

- c) Stations employing double sideband emissions (A3) or two channel independent sideband emissions (A3B) sheuld shall operate with assigned frequencies at the appropriate values listed in column 4 or 9 of the Table of Appendix 17.
- d) Stations using single sideband single channel emissions (A3A, A3H or A3J) should shall operate either in the upper half or in the lower half-of-the channels designated-by-the-center with assigned frequencies at the appropriate values listed in columns 2, 5, 7 or 10 of the Table of Appendix 17.1

(2) Assigned frequency

a) The assigned frequency of a station employing single sideband (A3A, A3H or A3J) will be 1400 c/s per second higher than the carrier frequency. Both assigned and carrier frequencies are shown in the Table of Appendix 17.

1) Independent sideband emission may be used by agreement between administrations concerned and affected in those instances where adjacent single sideband channels are assigned to a coast station. <u>Ref.</u>

USA/16(11) (contd.)

MOD 1358BV /Transferred from Appendix 17, paragraph <u>4</u>/ b) If an administration assigns frequencies other than those indicated above, its radiotelephone service shall not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequencies assigned to them in accordance with this Appendix 17.

ADD	1358BW	18(quinquies) The classes of emission used
		as the normal methods of operation for each
		coast station shall be indicated in the List
		of Coast Stations.

Reasons :

To include in the Radio Regulations technical and operational provisions necessary to support the transition to single sideband in the bands between 4000 and 23 000 kc/s.

Background :

1363

The technical characteristics follow those developed by the C.C.I.R. XI Plenary Assembly, Oslo, 1966.

USA/55(51)

(5) All emissions in the band <u>156.725</u> <u>156.7625</u> -<u>156.875</u> <u>156.8375</u> Mc/s capable of causing harmful interference to the authorized transmissions of stations of the maritime mobile service on 156.80 Mc/s are forbidden.

Reasons :

MOD

To provide for the reduction of the guard band on each side of 156.80 Mc/s.

Background :

Nos. 287 and 1363 of the Radio Regulations, Geneva, 1959, provide guard bands, including the communication channel of 156.80 Mc/s, from 156.725 to 156.875 Mc/s. With inclusion in the Radio Regulations of provision for permissible use of the intermediate channels between those appearing in Appendix 18, it is appropriate to also reduce the guard bands of 156.80 Mc/s. Accordingly, it is proposed that Article 5 (No. 287) and Article 35 (No. 1363) be amended to reduce the guard bands to 37.5 kc/s either side of 156.80 Mc/s in lieu of the existing 75 kc/s. <u>Ref</u>

USA/55(46)	ADD	<u>1363A</u>	(6) The frequency 156,65 Mc/s is designated
			as the navigational communication channel (see Nos. 37A, 1363B and 1363C).

ADD <u>1363B</u> (7) <u>The navigational communication channel</u> (see No. 1363A) may be used for both calling and working and may be specified for such use by administrations.

ADD 1363C (8) To facilitate a continuous watch on the navigational communication channel 156.65 Mc/s, administrations should encourage the provision by their ship stations of a separate capability for this purpose.

Reasons :

To designate 156,65 Mc/s for use on a world-wide basis for navigational communications,

Background :

Coordination is currently in process to include in $U_{\circ}S_{\circ}$ statutes, applicable to various classes of vessels when underway or engaged in operations on certain of the navigable waters of the $U_{\circ}S_{\circ}$, a mandatory requirement to carry VHF radiotelephone equipment capable of operating on a frequency within the band 156 to 174 Mc/s for the exchange of navigational information. This channel would be designated exclusively for navigational communications and would include the following uses :

- a) To enable persons directing the movement of vessels to communicate with one another, with the operators of bridges, locks or other shore based installations and floating plants that physically restrict or affect vessel movements, so as to inform one another of their intentions and resolve manoeuvring situations between approaching vessels.
- b) To enable shore stations to relay navigational information between approaching vessels whenever physical conditions prevent direct communication between them and the information is necessary for navigational safety. Brief transmissions containing the following types of information are necessary for safety of navigation and are contemplated for :
 - 1) Departure from a pier, dock or anchorage;
 - 2) Entry into a confined waterway;
 - 3) Estimated time of arrival at a pier, dock or anchorage;
 - 4) Taking on and discharging of pilots.
- c) To enable all stations to communicate as necessary while on the scene during a maritime distress or emergency.

USA/55(46) (cont.)

The usage of the radiotelephone on the navigational information frequency would be limited to persons engaged in piloting and directing the movement of the vessel. Such vessels would be required to maintain a listening watch on the navigational communications channel. VHF equipment installed aboard such vessels would be required to be maintained in effective operating condition. The proposed amendment of Appendix 18 and the inclusion in Article 1 (No. 37A) of the definition of "navigational communications" is intended to provide world-wide availability of a common channel for this purpose.

G/78(95)ADD

1367A

(5) However, when within the service area of a Port Operations Coast Station, ship stations may maintain watch either on 156.80 Mc/s or on the appropriate port operations channel if watch cannot be maintained on both.

Reasons :

To permit watch being maintained on a port operations channel when in an area served by a port operations service.

Proposals relating to Article 36

Distress Signal and Traffic. Alarm, Urgency and Safety Signals

Section III. Distress Call and Message

N° 1393

Section I. General

- 1387 § 5. (1) The characteristics of the radiotelegraph alarm signal are given in No. 1463.
- 1388 (2) The characteristics of the radiotelephone alarm signal are given in No. 1465.

Section II. Distress Signal

- 1389 § 6. (1) The radiotelegraph distress signal consists of the group ..., symbolized herein by SOS, transmitted as a single signal in which the dashes are emphasized so as to be distinguished clearly from the dots.
- 1390 (2) The radiotelephone distress signal consists of the word MAYDAY pronounced as the French expression "m'aider".
- **1391** (3) These distress signals indicate that a ship, aircraft or other vehicle is threatened by grave and imminent danger and requests immediate assistance.

Section III. Distress Call and Message

1392 § 7. (1) The distress call sent by radiotelegraphy consists of :

- the distress signal \overline{SOS} , sent three times;
- the word DE;
- the call sign of the mobile station in distress, sent three times.
- 1393
- (2) The distress call sent by radiotelephony consists of :
 - the distress signal MAYDAY, spoken three times;
 - the words THIS IS;
 - the call sign or other identification of the mobile station in distress, spoken three times.

Proposals relating to Article 36

Section III.

(continuation)

- 1397 § 10. (1) As a general rule, a ship shall signal its position in latitude and longitude (Greenwich), using figures for the degrees and minutes, together with one of the words NORTH or SOUTH and one of the words EAST or WEST. In radiotelegraphy, the signal $\cdot - \cdot - \cdot$ shall be used to separate the degrees from the minutes. When practicable, the true bearing and distance in nautical miles from a known geographical position may be given.
- (3) As a general rule, an aircraft in flight shall signal its position either in radiotelephony or radiotelegraphy :
 - by latitude and longitude (Greenwich) using figures for the degrees and minutes, together with one of the words NORTH or SOUTH and one of the words EAST or WEST; or
 - by the name of the nearest place, and its approximate distance in relation thereto, together with one of the words NORTH, SOUTH, EAST or WEST, as the case may be, or when practicable, by words indicating intermediate directions.
- 1400 (4) However, in radiotelegraphy, the words NORTH or SOUTH and EAST or WEST, indicated in Nos. 1397 and 1399, may be replaced by the letters N or S and E or W.

<u>Ref</u>.

G/60(22)

ADD 1388A \$5(bis) The characteristics of the emergency positionindicating radio-beacon signals are given in Nos. 1476B and 1476C.

Reasons :

Consequential upon the introduction of emergency positionindicating radio-beacon stations.

Section I - General

HOL/75(24)

1388 A	(3) The characteristics of the emergency
	position-indicating radio beacon signal
	employed by survival craft stations are
	given in Nos. 1476 B, 1476 C and 1476 D.

Reasons :

ADD

To include in the Radio Regulations the Recommendation of the C.C.I.R. concerning the use of emergency positionindicating radio beacons on 2182 kc/s, as well as the recommended practices adopted by I.C.A.O. concerning survival radio equipment on the frequencies 121.5 Mc/s and 243 Mc/s.

rfa/94(24)	ADD	1388A	§ 5.(3) The characteristics of the signals of floatable emergency position-indicating radio beacons are given in Article 36, Section VIII A.
DNK/38(9)	MOD	1393	- the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);
	Reasons	0	
	radiote		vide ways and means of communication in nen language difficulties arise.
USA/21(41)	MOD	1393	after "THIS IS"
			add the note 1)
USA/21(41)	ADD	1393.1	1) Where language difficulty is encountered, International Code of Signals DELTA ECHO may be used in lieu of THIS IS.

<u>Ref</u>.

J/88(61)

1400A

ADD

(5) In radiotelephony, in cases of language difficulties, the expressions in Nos. 1397 or 1399 should be replaced by the following expressions :

Latitude

Code letter L (Lima) followed by a four figure group (2 figures for degrees, 2 figures for minutes).

Longitude

Code letter G (Golf) followed by a five figure group (3 figures for degrees, 2 figures for minutes).

If necessary. N (November) for Latitude North, or S (Sierra) for Latitude South, and either E (Echo) for Longitude East, or W (Whiskey) for Longitude West should be sent immediately following the figure group.

Reasons :

It is necessary to clarify what is to be used as one signal in case of radiotelegraphy communications, or the use of the same abbreviation different in meaning between the Radio Regulations and the revised International Code of Signals.

Proposals relating to Article 36

Section IV. Distress Call and Message Transmission Procedure

Nº 1408

Section IV. Distress Call and Message Transmission Procedure

A. Radiotelegraphy

1401 § 1	1. (1) The radiotelegraph distress procedure shall consist of :
1402	the alarm signal; followed in order by:
1403	- the distress call and an interval of two minutes;
1404	— the distress call;
1405	— the distress message;
1406	- two dashes of ten to fifteen seconds duration each;
1407	— the call sign of the station in distress.
1 400	(a) However, when time is with the second stan of this

1408 (2) However, when time is vital, the second step of this procedure (No. 1403) or even the first and second steps (Nos. 1402 and 1403), may be omitted. These two steps of the distress procedure may also be omitted in circumstances where transmission of the alarm signal is considered unnecessary.

<u>Ref.</u>

F/111(160)

1408 Replace the end of the first sentence by :

.... may be omitted or shortened.

Reasons:

MOD

The present provisions of number 1408 enable the procedures specified in numbers 1402 and 1403 to be omitted when it is vital to save time. In some circumstances it should be possible to be able to reduce the length of the procedures specified in numbers 1402 and 1403.

In receivers fitted with automatic alarm devices, the alarm devices are generally actuated after three or four dashes at most. The interval of 2 minutes (number 1403) between distress calls can be reduced and still be effective since some ship station operators will be in a position to listen in within a very short time after the ships have received the alarm signal.

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Proposals relating to

Article 36

Section V. Acknowledgment of Receipt of a Distress Message

N° 1426, 1430 and 1432

Section VI. Distress Traffic Nº 1451

Section VII. Transmission of a Distress Message by a Station not itself in Distress

Nº 1460

Section VIII. Radiotelegraph and Radiotelephone Alarm Signals

N° 1470, 1472 and 1474

Section V. Acknowledgment of Receipt of a Distress Message

- 1425 § 21. (1) Stations of the mobile service which receive a distress message from a mobile station which is, beyond any possible doubt, in their vicinity, shall immediately acknowledge receipt.
- 1426 (2) However, in areas where reliable communications with one or more coast stations are practicable, ship stations may defer this acknowledgment for a short interval so that a coast station may acknowledge receipt.
- **1428** § 22. The acknowledgment of receipt of a distress message shall be given in the following form :

1430

b) Radiotelephony:

- the call sign or other identification of the station sending the distress message, spoken three times;
 the words THIS IS;
- the call sign or other identification of the station acknowledging receipt, spoken three times;
- the word RECEIVED;
- the distress signal.
- 1431 § 23. (1) Every mobile station which acknowledges receipt of a distress message shall, on the order of the master or person responsible for the ship, aircraft or other vehicle, transmit, as soon as possible, the following information in the order shown:
 - its name;
 - its position in the form prescribed in Nos. 1397, 1399 and 1400;
 - the speed at which it is proceeding towards, and the approximate time it will take to reach, the mobile station in distress.
- 1432 (2) Before sending this message, the station shall ensure that it will not interfere with the emissions of other stations better situated to render immediate assistance to the station in distress.

Section VI. Distress Traffic

- 1449 § 34. (1) When distress traffic has ceased, or when silence is no longer necessary on a frequency which has been used for distress traffic, the station which has controlled this traffic shall transmit on that frequency a message addressed "to all stations" indicating that normal working may be resumed.
- 1451
- (3) In radiotelephony, this message consists of :
 - the distress signal MAYDAY;
 - the call " to all stations ", spoken three times ;
 - the words THIS IS;
 - the call sign or other identification of the station sending the message;
 - the time of handing in of the message;
 - the name and call sign of the mobile station which was in distress;
 - the words SEELONCE FEENEE pronounced as the French words "silence fini".

Proposals relating to Article 36

-

(continuation)

Sections VII and VIII

Section VII. Transmission of a Distress Message by a Station not itself in Distress

1457	(2) This transmission of the distress message shall always be preceded by the call indicated below, which shall itself be preceded whenever possible by the radiotelegraph or radiotelephone alarm signal.
1458	(3) This call consists of :
1459	 a) Radiotelegraphy: the signal DDD SOS SOS SOS DDD; the word DE; the call sign of the transmitting station, sent three times.
1460	b) Radiotelephony :
۰.	 the signal MAYDAY RELAY pronounced as the French expression "m'aider relais", spoken three times;

- the words THIS IS;

- the call sign or other identification of the transmitting station, spoken three times.

Section VIII. Radiotelegraph and Radiotelephone Alarm Signals

- 1465 § 40. (1) The radiotelephone alarm signal consists of two substantially sinusoidal audio frequency tones transmitted alternately. One tone shall have a frequency of 2 200 cycles per second and the other a frequency of 1 300 cycles per second, the duration of each tone being 250 milliseconds.
- 1466 (2) The radiotelephone alarm signal, when generated by automatic means, shall be sent continuously for a period of at least thirty seconds but not exceeding one minute; when generated by other means, the signal shall be sent as continuously as practicable over a period of approximately one minute.

1470 § 42. (1) These signals shall only be used to announce :

- 1471 1472
- b) the transmission of an urgent cyclone warning. In this case they may only be used by coast stations duly authorized by their government; or

a) that a distress call or message is about to follow; or

- 1473
- c) the loss of a person or persons overboard. In this case they may only be used when the assistance of other ships is required and cannot be satisfactorily obtained by the use of the urgency signal only, but the alarm signal shall not be repeated by other stations. The message shall be preceded by the urgency signal (see Nos. 1477 and 1478).
- 1474

(2) In cases described in Nos. 1472 and 1473, the transmission of the warning or message by radiotelegraphy shall not begin until two minutes after the end of the radiotelegraph alarm signal. 1426

Third line :

Replace : "may defer" by : "should defer".

Reasons:

MOD

The coast station should be able to acknowledge receipt of the call without difficulty.

Add the following number 1427A :

F/111(162) ADD 1427A

Stations in the mobile service which receive a distress message from a mobile station which, beyond any possible doubt, is a long distance away, need not acknowledge receipt of messages except as specified in number 1455.

Reasons:

To obviate unnecessary acknowledgements.

DNK/38(10) MOD

1430 Read :

1430 - the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);

> - the word RECEIVED (or RRR spoken as ROMEO ROMEO ROMEO in case of language difficulties);

Reasons :

To permit the use of the abbreviations in radiotelephony when language difficulties arise.

F/13(77) MOD 1430 Throughout the texts of this number, replace the word "received" by the letter "R" (ROMEO).

Reasons :

The letter "R" (ROMEO) which is already used in radiotelegraphy (Appendix 13, section II) and contemplated for use in radiotelephony in the I.M.C.O. revised International Code of Signals seems to be phonetically preferable to the word "received", and has the advantage of international usage.

USA/21(41)	MOD	1430 <u>after</u> "THIS IS" <u>add the note</u> 1)		
USA/21(41)	ADD	1430.1 ¹⁾ Where language difficulty is encountered, International Code of Signals DELTA ECHO may be used in lieu of THIS IS.		
rfa/9 3(19)	ADD	1431A (2) If the bearings taken of the ship in distress give reason to doubt the correctness of the position indicated by the radio station in distress in accordance with		

distress give reason to doubt the correctness of the position indicated by the radio station in distress in accordance with Nos. 1395 or 1396, any radio station in the mobile service can, on the order of the master or person responsible for the ship, aircraft, vehicle or radio direction-finding station, transmit the results of the bearings or the position determined by radio direction-finding in the following order :

a) - - QTE the name or call sign of the radio station in distress;

the time of the bearing;

the true bearing of the radio station in distress (if indicated, classification in accordance with Appendix 23 § 8.(3)); RFA/93(19) (cont.)

QTH the name or call sign of the radio direction-finding station;

the position at the time of bearing (if indicated, with the following classification :

F = position of the transmitting station accurate to within 3 to 5 nautical miles;

G = position of the transmitting station accurate to within 5 to 10 nautical miles).

b) - - QTF the name or call sign of the radio station in distress;

the time of determination of the position;

the determined position of the radio station in distress (if indicated, with classification in accordance with Appendix 23 § 8.(3)).

the name or call sign of the

- - QRA

(3) Before sending one of these messages, the station shall(the rest unchanged).

control station.

<u>Reasons</u>: In many distress cases this information can contribute to a more accurate indication of the position of the ship in distress and thus facilitate the search for that ship.

To provide for the use of the International Code of

G/59(9)

§24(bis) When there are language difficulties, the International Code of Signals should be used.

Reasons :

ADD

MOD

MOD

ADD

1432

1433A

1448A

1,451

Signals.

F/111(163)

If the person in charge of the station in distress considers that silence is no longer justified, he should transmit or have transmitted without delay the message referred to in numbers 1450 or 1451.

<u>Reasons</u>: To draw attention to the possibility of re-establishing normal traffic.

DNK/38(11)

- the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);

<u>Ref.</u>

F/13(78)	MOD 1451 Throughout the texts of these numbers, replace the words "hullo all stations" by "CQ" (CHARLIE QUEBEC)			
	Reasons :			
	The abbreviation "CQ" is already used in radiotelegraphy (Appendix 13, section II) and contemplated for use in the revised International Code of Signals, and it offers the advantage of inter- national usage.			
USA/21(41)	MOD 1451 after "THIS IS"			
	add the note 1)			
USA/21(41)	ADD 1451.1 ¹⁾ Where language difficulty is encountered, International Code of Signals DELTA ECHO may be used in lieu of THIS IS.			
DNK/38(12)	MOD 1460 the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);			
USA/21(41)	MOD 1460 after "THIS IS"			
· .	add the note 1)			
USA/21(41)	ADD 1460.1 ¹⁾ Where language difficulty is encountered, International Code of Signals DELTA ECHO may be used in lieu of THIS IS.			
G/78 (96)	ADD 1462A § 38 (bis) A mobile station should not acknowledge receipt of a distress message transmitted by a land station under the conditions mentioned in Nos. 1452 to 1455 until the Master or person responsible has confirmed that the mobile station concerned is in a position to render assistance.			
	Reasons :			
· · .	To avoid unnecessary acknowledgements which could interfere with distress working.			
rfa/94 (25)	ADD 1466A (3) The use of the radiotelephone alarm signal by floatable emergency position- indicating radio beacons is described in Article 36 Section VIII A.			
rfa/94 (26)	ADD 1473A (1 A) The radiotelephone alarm signal may be used by floatable emergency position-indicat- ing radio beacons of Type "H" No. 1476D.			
F/14(82)	Replace the present tert by the following :			
1470	(1) These signals shall only be used to announce (see also Nos. 1476 c, 1476 e and 1476 f).			

кеі.

F/111(164) 1472 Add at the end : MOD. The warning should be preceded by the safety signal (see numbers 1488 and 1489). Reasons: Useful addition. Note analogy with number 1473. 1474 F/111(165) Replace by the following : MOD (2) In the cases referred to in numbers 1472 and 1473, an interval of two minutes shall, if possible, separate the end of the radiotelegraph alarm signal and the beginning of the warning or the message. Reasons:

When time is short (man overboard, for example), the interval of two minutes is impracticable.

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Proposals relating to

Article 36

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Introduction of a new Section VIII A

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DNK/ISL/NOR/30(2)	Section 7	VIII (bis). Survival Craft Beacon Signals
ADD	1476A	§ 44 (bis). (1) The position-indicating beacon signal employed by survival craft stations consists of:
ADD	1476B	 a keyed emission modulated by a tone of 1300 c/s (-20 c/s) having a ratio of the period of the emission to the period of silence equal to or greater than 1, and an emission duration between 1 and 5 seconds:
ADD	1476C	 b) the radiotelephone alarm signal. The Morse letter "B" and/or the call sign of the ship to which the beacon belongs, should be included by keying the carrier modulated by a tone of 1300 c/s (± 20 c/s) or of 2200 c/s (± 35 c/s);
· · · · · · · · · · · · · · · · · · ·		or,
ADD	1476D	c) a swept tone modulation sweeping downward over a range of not less than 700 c/s, within the range 1600 to 300 c/s, with a repetition rate between two and three sweeps per second.
ADD	1476E	(2) The position-indicating beacon signal shall be generated automatically and shall normally be sent continuously. It may be interrupted for radiotelephone transmissions or reception when such a facility is provided.
ADD	1476F	§ 44 (ter). This signal shall indicate that a person(s) is in a distress situation, may no longer be on board an aircraft or ship and that receiving facilities may not be available.
	Reasons:	
	Plen ary / Standards	To give international regulatory effect to the Recommendation concerning emergency position- ng beacons on 2182 kc/s, as adopted at the XIth Assembly of the C.C.I.R., Oslo, 1966, and to the s and recommended practices adopted by I.C.A.O. ng survival radio equipment on the frequencies

121.5 and 243 Mc/s. By definition such beacons are considered to fall under the category "Survival Craft Stations" mentioned in No. 41 of the Radio Regulations.

Ref.					
•	Add the following numbers :				
F/14(83)	No.1476a	No. 44A (1) The signals to be used by the position- indicating beacons referred to in No. 999a (see $F/14(81)$) are as follows :			
F/14(84)	No.1476b	a) either a keyed signal composed of a series of dashes modulated at 1300 Hz of a constant duration of 1 to 5 seconds with intervals lasting, at a maximum, for the same time as the dashes;			
F/14(8 5)	No.1476c	b) or a radiotelephone alarm signal (No.1465) transmitted for about 30 seconds and followed by the transmission in Morse in Class A2 with a modulating frequency of 1300 Hz or 2200 Hz of either :			
		- the letter B; or			
		- the call sign of the ship to which the beacon belongs; or			
		- the above two groups of signals.			
F/14(86)	1	(2) The signals from the position-indicating beacons are produced automatically; their transmission may be inter- rupted for the sending or receiving of radiotelephone messages if the apparatus is so equipped.			
F/14(87)	t t	No. 44B (1) The signals defined in paragraph 44A above Indicate that one or more people, a ship or an aircraft is In distress and may have no other transmitting medium and no receiving media.			
	94 12				
F/14(88)	s F	(2) Any mobile service station receiving one of these signals, while no distress or urgent traffic is being bassed, shall consider that the circumstances are as lescribed in No. 1453.			
	Reasons :				
	t.	Insertion in the Regulations of provisions relating to position-indicating beacons (see C.C.I.R. Recommendation			

/60(23)	ADD <u>Section VIIIA - Emergency position-indicating</u>
,00(2))	radio-beacon_signals
	ADD 1476A §44(bis) (1) The emergency position-indicating radio- beacon signal consists of ;
	ADD 1476B - a keyed emission modulated by a tone of 1300 cycles per second having a ratio of the period of the emission to the period of silence equal to or greater than one, and an emission duration between one and five seconds;
	or
	ADD 1476C - the radiotelephone alarm signal (see No. 1465) followed by the morse letter 'B' and/or the call-sign of the ship to which the beacon belongs transmitted by keying a carrier modulated by a tone of 1300 cycles per second or of 2200 cycles per second.
	ADD 1476D (2) The signal in No. 1476B shall be sent continuously or as in No. 1476C.
	ADD 1476E (3) The keying cycle of the signal in No. 1476C shall consist alternately of the keying signal having a duration between thirty and fifty seconds followed by a period of silence having a duration between thirty and sixty seconds.
	ADD 1476F (4) However, the keying cycles in Nos. 1476D and 1476E may be interrupted for speech transmission if administra- tions so desire.
	ADD 1476G (5) The purpose of the emergency position-indicating radio-beacon signals is to indicate the position of survivors and to facilitate search and rescue operations.
	ADD 1476H (6) These signals shall only be used to assist in the location of survivors either aboard a ship or survival craft in the water.
	ADD 1476I (7) Equipment designed to transmit emergency position- indicating radio-beacon signals shall meet the require- ments specified in Appendix 20A.
	Reasons :
	To provide for use of emergency position-indicating radio- beacons.

408

ner .			
HOL/75(24)	ADD		<u>Section VIII A</u> - Survival craft beacon signals
	ADD	1476 A	$\frac{\$}{\$}$ 44 (bis) The emergency position-indicating radio beacon signal employed by survival craft stations consists of :
	ADD	1476 B	 a keyed emission modulated by a tone of 1300 cycles per second (± 20 c/s), having a ratio of the period of the emission to the period of silence equal to or greater than 1, and an emission duration between one and five seconds. The keying signal shall be transmitted continuously; or,
	ADD	1476 C	b) the radiotelephone alarm signal. The
	ADD	14/6 C	Morse letter "B" and/or the call sign of the ship to which the beacon belongs should be included by keying a carrier modulated by a tone of 1300 cycles per second (± 20 c/s) or 2200 cycles per second (± 35 c/s)
			The keying cycle shall consist alternatively of the keying signal having a duration between 30 and 50 seconds, and a period of silence having a duration between 30 and 60 seconds; or,
	ADD	1476 D	c) a swept tone modulation sweeping downward over a range of not less than 700 cycles per second, within the range 1600 to 300 cycles per second, with a repetition rate between two and three sweeps per second.
	ADD	1476 E	§ 44 (ter) The emergency position-indicating radio beacon signal shall indicate that persons are in a distress situation, may no longer be on an aircraft or ship and that receiving facilities may not be available.

Reasons :

Ref.

To include in the Radio Regulations the Recommendation of the C.C.I.R. concerning the use of emergency positionindicating radio beacons on 2182 kc/s, as well as the recommended practices adopted by I.C.A.O. concerning survival radio equipment on the frequencies 121.5 Mc/s and 243 Mc/s.

1/36(28)

Add to Article 36 the following new Section VIII (bis)

Section VIII (bis). Survival craft beacon signals

ADD 1476AA

§ 44 (bis) (1) The position-indicating beacon signal employed by survival craft stations consists of :

ADD 1476AB

a) a keyed emission modulated by a tone of 1300 c/s (+20 c/s) having a ratio of the period of the emission to the period of silence equal to or greater than 1, and an emission duration between 1 and 5 seconds.

ADD 1476AC

b) the radiotelephone alarm signal. The Morse letter "B" and/or the call sign of the ship to which the beacon belongs, should be included by keying the carrier modulated by a tone of 1300 c/s (\pm 20 c/s) or of 2200 c/s (\pm 35 c/s). The keying cycle should consist alternatively of the keying signal having a duration between 30 and 50 seconds, and a period of silence having a duration between 30 and 60 seconds.

Or

 $\mathbf{0r}$

ADD 1476AD

c) a swept tone modulation sweeping downward over a range of not less than 700 c/s, within the range 1600 to 300 c/s, with a repetition rate between two and three sweeps per second.

ADD 1476AE

(2) The position-indicating beacon signal shall be generated automatically and normally shall be sent continuously. It may be interrupted for radiotelephone transmissions or reception when this capability is provided.

ADD 1476B

§ 44 (ter) This signal shall indicate that a person(s) is in a distress situation, may no longer be on an aircraft or ship and that receiving facilities may not be available.

Background :

The position-indicating beacon signal characteristics specified above are in accordance with C.C.I.R. Recommendation (Doc. XIII/1008 - Oslo, 1966).

	•		
<u>Ref.</u>			Add the following next to Article 36, Section VIII :
J/89(78)	ADD		Section VIII A. Signals of emergency position- indicating radio beacons
J/ 89 (79)	ADD	<u>1476a</u>	$\frac{\$44a}{1}$. The signal of an emergency position- indicating radio beacon may consist either of of the following :
J/89(80)	ADD	<u>1476B</u>	(a) A keyed emission modulated by a tone of 1300 c/s ($\pm 20 \text{ c/s}$) having a ratio of the period of the emission to the period of silence equal to or greater than 1, and an emission duration between 1 and 5 seconds.
J/89(81)	ADD	<u>1476C</u>	(b) The radiotelephone alarm signal accompanied by the Morse letter "B" and/or the identi- fication (including the call sign of the ship to which the beacon belongs) by keying a carrier modulated by a tone of 1300 cycles (+ 20 c/s) or of 2200 cycles (+ 35 c/s) (see No. 1465).
J/89(82)	ADD	1476D	The keying signal given in No. 1476B should be transmitted continuously.
		• . •	
J/89 (83)	ADD	<u>1476e</u>	The signal given in No. 1476C should consist alternately of the keying signal having a duration between 30 and 50 seconds, followed by a period of silence having a duration between 30 and 60 seconds.
J/89(84)	ADD	<u>1476</u> F	The keying signal given in Nos. 1476D or 1476E may be interrupted by speech transmission.
	D		

Reasons :

To lay down conditions for the use of the emergency position-indicating radio beacon. In Japan there is already in wide use the automatic apparatus for distress information using class Al emissions on 2091 kc/s. Therefore, it is requested that in Regions 2 and 3, where the band 2088.5 - 2093.5 kc/s is reserved exclusively for calling, the band between 2088.5 and 2093.5 should be designated as a safety frequency band in the radiotelegraph maritime mobile service and be added to frequencies with which survival craft stations shall be provided (see No. 455).

RFA/94(27)

ADD

ADD

ADD

ADD

ADD

ADD

Section VIII A

<u>Signals of floatable emergency position-</u> indicating radio beacons

1476A The signals of floatable emergency positionindicating radio beacons consist of :

In type "H" 2 3 beacons :

(1) In type "L" 1 3 beacons :

a keyed emission modulated by a tone of 1300 c/s (\pm 20 c/s) having a ratio of the period of the emission to the period of silence equal to or greater than 1, and an emission duration between 1 and 5 seconds. The depth of modulation shall be between 30 and 90 per cent. This signal shall be transmitted continuously.

ADD 1476C

ADD 1476D

1476E

(2)

1476B

a) the radiotelephone alarm signal (No. 1465) followed by the Morse letter "B" and/or the call sign of the ship to which the beacon belongs, modulated by a tone of 1300 c/s $(\pm 20 \text{ c/s})$ or of 2200 c/s $(\pm 35 \text{ c/s})$, or

b) a keyed emission modulated by a tone of 1300 c/s (\pm 20 c/s) having a ratio of the period of the emission to the period of silence equal to or greater than 1, and an emission duration between 1 and 5 seconds;

1476F The depth of modulation shall be between 30 and 90 per cent.

> These type "H" signals shall have a duration between 30 and 50 seconds and a period of silence lasting between 30 and 60 seconds.

1476.1

1476G

¹ beacons producing a field strength equal to or less than 10 microvolts per metre at a distance of 30 nautical miles at sea level;

1476.2

² beacons producing a field strength greater than 10 microvolts per metre at a distance of 30 nautical miles at sea level;

1476.3

³ beacons carried by ships of the U.S.A. may use a swept tone modulation sweeping downward over a range of not less than 700 c/s within the range 1600 to 300 c/s with a repetition rate of between two and three sweeps per second.

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RFA/94(27) (cont.)	ADD	1476H	The purpose of the signals of floatable emergency position-indicating radio beacons is to indicate that one or more persons are in a distress situation, may no longer be on board and that other means of radiocommunica- tions may not be available.
	ADD	14761	Any station of the mobile service receiving one of these signals, while no distress or urgent traffic is being passed, shall inform other stations accordingly.
	<u>Reasons</u>	· ·	
	emergency tion No.	position-	in the Regulations of provisions relating to indicating beacons (see C.C.I.R. Recommenda-
•			
USA/22(52)	ADD		Section VIIIA
		Surv	vival craft beacon signals
	ADD <u>1476A</u>		44 (bis) (1) The position indicating beacon mployed by survival craft stations consists of:
	ADD <u>1476</u> B	per se emissi greate	ed emission modulated by a tone of 1300 cycles econd having a ratio of the period of the lon to the period of silence equal to or er than one, and an emission duration of en 1 and 5 seconds; or
	ADD <u>1476</u> C	range the ra	of tone modulation sweeping downward over a of not less than 700 cycles per second within ange 1600 to 300 cycles per second with a tion rate of between two and three sweeps per
	ADD <u>1476D</u>	generated continuous	osition-indicating beacon signal shall be automatically and normally shall be sent sly. It may be interrupted for radiotelephone ons or reception when this capability is
	ADD <u>1476E</u>	person(s) be on an a	44 (ter) This signal shall indicate that a is in a distress situation, may no longer ircraft or ship and that receiving facilities available.
	D		

Reasons :

To provide for world-wide conditions of use, definitions and frequencies for emergency position-indicating beacons. Proposals relating to Article 36

Section IX. Urgency Signal

N° 1477, 1478, 1482 - 1484, 1486 and 1487

Section IX. Urgency Signal

- 1477 § 45. (1) In radiotelegraphy, the urgency signal consists of three repetitions of the group XXX, sent with the letters of each group and the successive groups clearly separated from each other. It shall be transmitted before the call.
- 1478 (2) In radiotelephony, the urgency signal consists of three repetitions of the word PAN pronounced as the French word "panne". It shall be transmitted before the call.
- 1479 § 46. (1) The urgency signal shall be sent only on the authority of the master or the person responsible for the ship, aircraft or other vehicle carrying the mobile station.
- 1480 (2) The urgency signal may be transmitted by a land station only with the approval of the responsible authority.
- 1481 § 47. (1) The urgency signal indicates that the calling station has a very urgent message to transmit concerning the safety of a ship, aircraft or other vehicle, or the safety of a person.
- 1482 (2) The urgency signal and the message following it shall be sent on one of the international distress frequencies (500 kc/s or 2 182 kc/s) or on one of the frequencies which may be used in case of distress (see Nos. 1107, 1108, 1208, 1321, 1323, and 1324).
- 1483 (3) The urgency signal shall have priority over all other communications, except distress. All mobile and land stations which hear it shall take care not to interfere with the transmission of the message which follows the urgency signal.
- 1484 § 48. Messages preceded by the urgency signal shall, as a general rule, be drawn up in plain language.
- 1485 § 49. (1) Mobile stations which hear the urgency signal shall continue to listen for at least three minutes. At the end of this period, if no urgency message has been heard, they may resume their normal service.
- 1486 (2) However, land and mobile stations which are in communication on frequencies other than those used for the transmission of the urgency signal and of the call which follows it may continue their normal work without interruption provided the urgency message is not addressed "to all stations" (CQ).
- 1487 § 50. When the urgency signal has been sent before transmitting a message "to all stations" (CQ) and which calls for action by the stations receiving the message, the station responsible for its transmission shall cancel it as soon as it knows that action is no longer necessary. This message of cancellation shall likewise be addressed "to all stations" (CQ).

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Ref. Replace heading of Section IX as follows : Heading Section IX F/111(166) MOD Section IX - Urgency Reasons: Section IX now deals with the urgency call as well as urgency signals. See proposal relating to number 1481A. 1477 and Delete last sentence in each of these F/111(167) MOD MOD 1478 numbers. Reasons: See proposal relating to number 1481A. The urgency signal is now included in the urgency call. Add the following number 1481A : F/111(168) 1481A ADD The urgency call in radiotelegraphy consists of : - the urgency signal (XXX sent three times); - if necessary (see number 1483A), the call sign of the station called (sent three times); - the word DE; - the call sign of the station sending the message (sent three times); - if necessary (see number 1482A), the abbreviation QSW followed by an indication of the frequency to be used for transmitting the urgent message. Reasons: Further information is needed in connection with the call referred to in numbers 1477, 1478 and 1486. As in the case of the distress procedure, the use of the signal "CQ" (call to all stations) is not necessary.

Add the following number 1481B : F/111(169) ADD 1481B The urgency call in radiotelephony consists of : - the urgency signal (PAN spoken three times); - if necessary (see number 1483A), the identification of the called station (spoken three times): - the words THIS IS; - the identification of the transmitting station (spoken three times): - if necessary (see number 1482A), an indication of the frequency to be used for transmitting the urgent message. Reasons: See proposal relating to number 1481A. F/111(170) MOD 1482 First line : replace "the urgency signal and the message" by "the urgency call and the message". Reasons: See proposals relating to numbers 1481A and 1481B. Add the following number 1482A : F/111(171) ADD 1482A However, in regions of heavy traffic or in the case of a long message or a medical call, the message should be transmitted on a working frequency. An indication to this effect should be given at the end of the urgency call. Reasons: To minimize the use of the distress frequency.

<u>Ref.</u>	3	· • ·	
F/111(172)	MOD	1483	At the end :
			Replace : "the urgency signal" by "the urgency call".
		. '	
· .	Reasons:		
		See propo	osals relating to numbers 1481A and 1481B.
		· · ·	
•	• •		Add the following number 1483A :
F/111(173)	ADD	1483A	Urgent messages may be addressed either as
·	- 	•	messages to all stations or as messages to a particular station.
	Reasons;	·	
		liseful c	larification.
		•	and a second sec
F/111(174)	MOD	1484	Replace : "the urgency signal" by "the urgency call".
n de la companya de l La companya de la comp	Deceman		
	Reasons:		
. · · ·		See prop	osals relating to numbers 1481A and 1481B.
	u		
F/111(175)	MOD	1486	At the end :
			Replace : provided the urgency message is not addressed "to all stations" (CQ)
			by
			provided the urgency message is not addressed as "to all stations".
	Reasons:		
		See prop	oosals relating to numbers 1481A and 1481B.
F/111(176)	MOD	1487	At the beginning :
			Replace by :
			When the urgency call "to all stations" precedes a message calling for action by the
•			stations
•	Reasons:		

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Proposals relating to Article 36

Section X. Safety Signal

N° 1488, 1489, 1492 - 1494

Section X. Safety Signal

- 1488 § 51. (1) In radiotelegraphy, the safety signal consists of three repetitions of the group TTT, the individual letters of each group, and the successive groups being clearly separated from each other. It shall be sent before the call.
- 1489 (2) In radiotelephony, the safety signal consists of the word SÉCURITÉ pronounced clearly as in French, spoken three times and transmitted before the call.
- 1490 § 52. (1) The safety signal indicates that the station is about to transmit a message concerning the safety of navigation or giving important meteorological warnings.
- 1491 (2) The safety signal and call shall be sent on the distress frequency or one of the frequencies which may be used in case of distress (see Nos. 1107, 1108, 1208, 1321, 1323, and 1324).
- 1492 (3) Where practicable, the safety message which follows should be sent on a working frequency, particularly in areas of heavy traffic, and a suitable announcement to this effect shall be made at the end of the call.
- 1493 § 53. (1) With the exception of messages transmitted at fixed times, the safety signal, when used in the maritime mobile service, shall be transmitted towards the end of the first available period of silence (see No. 1130 for radiotelegraphy and No. 1349 for radiotelephony); the message shall be transmitted immediately after the period of silence.
- 1494 (2) In the cases prescribed in Nos. 1612, 1615 and 1619, the safety signal and the message which follows it shall be transmitted as soon as possible, and shall be repeated at the end of the first period of silence which follows.
- 1495 § 54. All stations hearing the safety signal shall listen to the safety message until they are satisfied that the message is of no concern to them. They shall not make any transmission likely to interfere with the message.

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Heading Section X

Replace the title of Section X as follows :

F/111(177) MOD

Section X - Safety

Reasons:

Section X is no longer concerned solely with the safety signal. See proposals relating to number 1490A.

F/111(178)

MOD 1¹ MOD 1¹

1488 and Delete the last sentence in each of these 1489 numbers.

Reasons:

ADD

See proposal relating to number 1490A. The safety signal is now included in the safety call.

Add the following number 1490A :

F/111(179)

1490A

The safety call in radiotelegraphy consists of :

- the safety signal (TTT sent three times),
- if necessary (see number 1492A), the call sign of the station called (sent three times),
- the word DE,
- the call sign of the transmitting station (sent three times),
- if necessary (see number 1492), the abbreviation QSW followed by an indication of the frequency to be used for transmitting the safety message.

Reasons:

Information should be given on the call referred to in numbers 1488, 1489, 1491 and 1492. As in the case of the distress procedure, it is not necessary to use "CQ" in the case of a call to all stations.

F/111(180)

Add the following number 1490B :

The safety call in radiotelephony consists of :

- the safety signal (SECURITE spoken three times),
- if necessary (see number 1492A), the identification of the station called (spoken three times),
- the words THIS IS,
- if necessary (see number 1492), an indication of the switch-over to the frequency to be used for transmitting the safety message.

Reasons:

MOD

ADD

1490B

See proposal relating to number 1490A.

F/111(181)

1492

Replace by the following :

(3) Wherever possible, the safety message which follows the safety call should be sent on a working frequency, particularly (remainder unchanged).

Reasons:

To emphasize the necessity of minimizing the use of the distress frequency after the call.

Add the following number 1492A :

F/111(182)

1492A

Safety messages shall generally be addressed to all stations. In some cases, however, they may be addressed to a particular station.

Reasons:

ADD

Useful clarification. In some cases the message is in fact addressed to a single station (e.g. in the case of a ship transmitting observations to a maritime authority through a coast station).

F/111(183) 1493 Second line : MOD Replace "the safety signal" by "the safety call". Reasons: See proposals relating to numbers 1490A and 1490B. F/111(184) MOD 1494 Second line:: Replace "the safety signal" by "the safety call". Reasons: See proposals relating to numbers 1490A and 1490B.

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Proposals relating to Article 40

Accounting for Radiotelegrams and Radiotelephone Calls

Section III. Establishment of Accounts for Radiotelephone Calls

Nº - 1530

Section III. Establishment of Accounts for Radiotelephone Calls

1529 (2) In the case of radiotelephone calls destined for ship or aircraft stations and originating in a country other than that to which the land station belongs :

1530

- a) the administration to which the land station is subject:
 debits the administration or recognized private operating agency of the country of origin with the land station and ship or aircraft station charges,
 - credits the administration to which the mobile station of destination is subject (or, if appropriate, the administration to which the operating enterprise of the mobile station of destination is subject, or the operating enterprise direct) with the ship or aircraft station charges;
- b) the administration or recognized private operating agency of the country in which the calls originate credits, through the international telephone accounts, the administration of the country to which the land station is subject, and the administrations or recognized private operating agencies of intermediate countries, if any, with the charges relating to transmission over the international telephone system.
- **1532** § 13. The provisions of Nos. **1520** to **1523** relative to the accounting for radiotelegrams exchanged between stations on ships or aircraft shall be followed in the case of radiotelephone calls exchanged between stations on ships or aircraft.
- **1533** § 14. For accounting purposes, coilect radiotelephone calls shall be regarded as originating in the country or mobile station of destination.

1531

F	łe	f	•

н.,			- 427 -
Ref.			
F/111(185)	MOD	1530	Second line :
			Replace "débits des taxes terrestres ou des taxes de bord" by "débits des taxes terrestres et des taxes de bord".
	<u>Reasons:</u>	Drafting	error.

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Proposals relating to Appendix 3

Table of Frequency Tolerances

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APPENDIX 3

Table of Frequency Tolerances *

(See Article 12)

1. Frequency tolerance is defined in Article 1 and is expressed in parts in 10^8 or, in some cases, in cycles per second.

2. The power shown for the various categories of stations is the mean power as defined in Article 1.

Frequency Bands (lower limit exclusive, upper limit inclusive) and Categories of Stations	Tolerances applicable until 1st January, 1966* to transmitters in use and to those to be installed before 1st January, 1964	Tolerances applicable to new transmitters installed after 1st January, 1964 and to all transmitters after 1st January, 1966*
		0 in the case of all d with an asterisk.
	· · · · · · · · · · · · · · · · · · ·	I
Band : 1 605 to 4 000 kc/s		
1. Fixed Stations :		
-power 200 W or less -power above 200 W	100 50	100 50
2. Land Stations :		· · ·
-power 200 W or less -power above 200 W	100 50	100 50
3. Mobile Stations :		
a) Ship Stations	200	200
b) Survival Craft Stations		300
c) Aircraft Stations	200 *	100 *
d) Land Mobile Stations	200	200
4. Radiodetermination Stations :		
-power 200 W or less	100	100
-power above 200 W	50	50
5. Broadcasting Stations	50	20
Band : 4 to 29.7 Mc/s		
1. Fixed Stations :		
-power 500 W or less -power above 500 W	100 30	50 15
2. Land Stations :		
a) Coast Stations:		•
-power 500 W or less	50	50
-power above 500 W and less than or equal to 5kW	50 *	30 *
-power above 5 kW	50	15

Proposals relating to Appendix 3

(continuation)

* 1st January, 1970 in the case of all tolerances marked with an asterisk. b) Aeronautical Stations: -power 500 W or less 100 -power above 500 W 50 c) Base Stations: -power above 500 W 50 g) Ship Stations : 100 a) Ship Stations : 100 b) Class A1 emission 200 200 200 2) Emission other than Class A1: -power 50 W or less 50 -power 50 W or less 50 -power 50 W or less 50 power 50 W or less 200 200 200 c) Aircraft Stations 200 d) Land Mobile Stations 200 4. Broadcasting Stations 30 15 15 Band : 100 to 470 Mc/s 100 * 1. Fixed Stations : 100 * -power 50 W 100 * 20* 20* 2. Land Stations : 100 a) Coast Stations : 100 -power 5 W or less 100 -po	
-power 500 W or less 100 100 -power above 500 W 50 50 c) Base Stations: 100 100 -power above 500 W 50 50 3. Mobile Stations: 100 100 a) Ship Stations: 100 200 1) Class A1 emission 200 200 2) Emission other than 200 200 Class A1: -power above 50 W 50 50 -power above 50 W or less 50 50 50 -power above 50 W 50 200 200 c) Aircraft Stations 200 200 200 c) Aircraft Stations 200 200 200 4) Land Mobile Stations 200 200 200 4. Broadcasting Stations 30 15 15 Band : 100 to 470 Mc/s 1. Fixed Stations : -power 50 W 100 * 20 * 2. Land Stations : 100 20 20 b) Aeronautical Stations 100 50 50 c) Base Stations : -power 5 W or less 100 <	
-power 500 W or less 100 100 -power above 500 W 50 50 3. Mobile Stations : 1) Class AI emission 200 200 2) Emission other than 200 200 200 2) Emission other than 100 50 50 2) Emission other than 200 200 200 2) Emission other than 200 200 200 2) Class AI : -power 50 W or less 50 50 5) Survival Craft Stations 200 200 200 c) Aircraft Stations 200 200 200 4. Broadcasting Stations 30 15 15 Band : 100 to 470 Mc/s 100 * 50 * 50 * 1. Fixed Stations : -power 50 W 100 * 20 * 2. Land Stations : 100 * 20 * 2 a) Coast Stations 100 50 50 c) Base Stations : 100 50 50 c) Base Stations : 100 50 50 c) Base Stations : 100 50 50 c) Bas	
a) Ship Stations :2002001) Class A1 emission2002002) Emission other than Class A1: -power 50 W or less50c)power 50 W or less5050power above 50 W5050b) Survival Craft Stations200200c) Aircraft Stations200200d) Land Mobile Stations2002004. Broadcasting Stations3015Band : 100 to 470 Mc/s100 *50 *1. Fixed Stations : -power 50 W or less100 *20 *2. Land Stations : a) Coast Stations10020b) Aeronautical Stations10050c) Base Stations : -power above 5 W10050c) Base Stations : -power above 5 W100203. Mobile Stations : a) Ship Stations and Survival10020	
1) Class A1 emission2002002) Emission other than Class A1: -power 50 W or less50 $c)$ 50-power 30 W or less50 50 50 -power above 50 W 50 50 50 b) Survival Craft Stations 200 200 c) Aircraft Stations 200 200 d) Land Mobile Stations 200 200 4. Broadcasting Stations 30 15 Band : 100 to 470 Mc/s1. Fixed Stations : -power 50 W or less -power above 50 W $100 *$ $100 *$ 2. Land Stations : a) Coast Stations 100 20 b) Aeronautical Stations 100 50 c) Base Stations : -power above 5 W 100 50 d) Aeronautical Stations : -power 5 W or less 100 20 d) Aeronautical Stations : -power 5 W or less 100 20 d) Abile Stations : -power above 5 W 100 20 3. Mobile Stations : a) Ship Stations and Survival 100 20	
-power 50 W or less 50 c 50 -power above 50 W 50 50 50 b) Survival Craft Stations 200 200 c) Aircraft Stations $200 *$ $100 *$ d) Land Mobile Stations 200 200 4. Broadcasting Stations 30 15 Band : 100 to 470 Mc/s1. Fixed Stations : -power 50 W or less $100 *$ -power 50 W or less $100 *$ $20 *$ 2. Land Stations : a) Coast Stations 100 20 b) Aeronautical Stations 100 50 c) Base Stations : -power above 5 W 100 50 d) Amount Cols Stations : -power above 5 W 100 20 3. Mobile Stations : a) Ship Stations and Survival 100 20	
c) Aircraft Stations200 *100 *d) Land Mobile Stations2002004. Broadcasting Stations3015Band : 100 to 470 Mc/s1. Fixed Stations : -power 50 W or less -power above 50 W100 *2. Land Stations : a) Coast Stations10020b) Aeronautical Stations -power above 5 W10050c) Base Stations : -power above 5 W10050c) Base Stations : -power above 5 W10050d) Coast Stations -power 5 W or less -power above 5 W10050d) Aeronautical Stations -power 5 W or less -power above 5 W100203. Mobile Stations : a) Ship Stations and Survival10020	c)
4. Broadcasting Stations 30 15 Band : 100 to 470 Mc/s	
Band : 100 to 470 Mc/s 1. Fixed Stations : -power 50 W or less -power above 50 W 100 * 20 * 2. Land Stations : a) Coast Stations 100 20 b) Aeronautical Stations c) Base Stations : -power 5 W or less -power above 5 W 100 50 -power above 5 W 100 50 -power above 5 W 100 50 -power above 5 W 100 20 3. Mobile Stations : a) Ship Stations and Survival	
1. Fixed Stations : -power 50 W or less -power above 50 W100 *50 * 20 *2. Land Stations : a) Coast Stations10020b) Aeronautical Stations10050c) Base Stations : -power 5 W or less -power above 5 W100503. Mobile Stations : a) Ship Stations and Survival20	
-power 50 W or less -power above 50 W100 *50 * 20 *2. Land Stations : a) Coast Stations10020b) Aeronautical Stations10050c) Base Stations : -power 5 W or less10050-power above 5 W100203. Mobile Stations : a) Ship Stations and Survival10020	
-power above 50 W100 *20 *2. Land Stations : a) Coast Stations10020b) Aeronautical Stations10050c) Base Stations : -power 5 W or less10050-power 5 W or less100203. Mobile Stations : a) Ship Stations and Survival10020	
a) Coast Stations10020b) Aeronautical Stations10050c) Base Stations : -power 5 W or less10050-power above 5 W100203. Mobile Stations : a) Ship Stations and Survival10020	
b) Aeronautical Stations10050c) Base Stations : -power 5 W or less10050-power 5 W100203. Mobile Stations : a) Ship Stations and Survival100	
c) Base Stations : -power 5 W or less 100 50 -power above 5 W 100 20 3. Mobile Stations : a) Ship Stations and Survival	
-power 5 W or less 100 50 -power above 5 W 100 20 3. Mobile Stations : a) Ship Stations and Survival	
a) Ship Stations and Survival	.*
	·
-in the band 156-174 Mc/s: 100 20	
-outside this band 100 d) 50	
b) Aircraft Stations 100 50	_d)
c) Land Mobile Stations: -power 5 W or less 100 50 -power above 5 W 100 20	_d)
	_d)

.

Proposals relating to Appendix 3

(continuation)

,

Frequency Bands (lower limit exclusive, upper limit inclusive) and Categories of Stations	Tolerances applicable until 1st January, 1966 * to transmitters in use and to those to be installed before 1st January, 1964	Tolerances applicable to new transmitters installed after 1st January, 1964 and to all transmitters after 1st January, 1966*	
	* 1st January, 1970 in the case of all tolerances marked with an asterisk.		
4. Radiodetermination Stations	200 * d) e)	50 * d) e	
5. Broadcasting Stations (other than television)	30	20	
6. Broadcasting Stations (television sound and vision):			
-power 100 W or less -power above 100 W	100 30	100 1 000 c/s	

Notes Referring to Table of Frequency Tolerances

a) At the present time some administrations permit ship transmitters fulfilling the role of standby to a main transmitter not only for distress but also for traffic purposes to operate with a tolerance of 5000. These administrations should make every effort to ensure that by 1st January, 1966, all ship transmitters operating in the band 10—535 kc/s, other than ship's emergency transmitters, have a frequency tolerance of 1 000.

b) In the area covered by the North American Regional Broadcasting Agreement (NARBA) the tolerance of 20 c/s may continue to be applied.

c) For ship transmitters, of power 50 W or less, using frequencies below 13 Mc/s in tropical regions, the tolerance of 50 can be increased to 200 since these transmitters are sometimes used in such regions in the same circumstances as those of the band 1 605-4 000 kc/s.

d) This tolerance is not applicable to survival craft stations operating on the frequency 243 Mc/s.

e) Where specific frequencies are not assigned to radar stations, the bandwidth occupied by the emissions of such stations shall be maintained wholly within the band allocated to the service and the indicated tolerance does not apply.

f) For transmitters using time division multiplex the tolerance of 300 may be increased to 500.

g) This tolerance applies only to such emissions for which the necessary bandwidth does not exceed 3 000 kc/s; for larger bandwidth emissions a tolerance of 300 applies.

F/8(50) Appendix 3

Amend the table of frequency tolerances as follows :

Band : 1605 to 4000 ke/s

2. Land stations ke/

after land stations, add the reference (h);

3. Mobile stations :

after a) ship stations, add the reference (i);

Band : 4 to 29.7 Mo/s

2. Land stations :

after a) coast stations, add the reference (j);

3. Mobile stations :

a) ship stations;
 after 2. emissions other than class Al, add
 the reference (k).

At the end of Appendix 3, add the following footnotes :

h) For coast radiotelephone station transmitters installed after 1 January 1973 the tolerance is 20 d/s.

1) For ship radiotelephone station transmitters (other than those referred to in No. 987) installed after 1 January 1973 the tolerance is 100 o/s.

j) For coast radiotelephone station transmitters installed after 1 January 1970 the tolerance is 20 0/s.

k) For ship radiotelephone stations installed after
1 January 1970 the tolerance is 100 c/s.

Reasons :

To complete the table of frequency tolerances with respect to those applicable to coast and ship stations after the dates by which conversion to SSB is compulsory. <u>Ref.</u>

F/11(68)

Appendix 3 - Amend the table of frequency tolerances to read as follows :

Band : 100 to 470 MHz

3 mobile stations :

a) ship stations and survival craft stations :

after - in the band 156 - 174 MHz - <u>insert</u> <u>a reference</u> (1)

At the end of Appendix 3, insert the following footnote :

1) The tolerance is 10 parts in 10⁶ for ship station transmitters brought into service after 1 January 1970.

Reasons :

To provide for a frequency tolerance such that ship station transmitters will be able to operate with a separation of 25 kHz between adjacent channels (see also the draft Resolution F/11(70) to Doc. N° 11).

G/76(33)

MÓD

2.

APPENDIX 3

Table of frequency tolerances *

(See Article 12)

Band : 1605 to 4000 kc/s

Land stations :

In column 3, after 100, add h)

In column 3, after 50, add h)

3. Mobile Stations :

a) Ship stations

In column 3, after 200, add i)

Band : 4 to 29.7 Mc/s

2. Land stations :

a) Coast stations

In column 3, after 50, add h) In column 3, after 30, add h)

In column 3, after 15, add h)

 Certain services may need tighter tolerances for technical and operational reasons. G/76(33) Mobile Stations : 3. (contd.) a) Ship stations 2) Emission other than class Al : In column 3, after 50 c), add i) In column 3, after 50, add i) Notes referring to table of frequency tolerances ADD h) For coast station single sideband radiotelephone transmitters installed after 1 January 1970 the tolerance is 20 c/s. ADD **i**) For ship station single-sideband radiotelephone transmitters installed after 1 January 1970 the tolerance is 100 c/s. Reasons : To include the frequency tolerance for coast and ship station single sideband radiotelephone transmitters. APPENDIX 3 Table of Frequency Tolerances Band : 1605 to 4000 kc/s : MOD 2. Land Stations : after Land Stations, add the reference h);

> 3. Mobile Stations : MOD

> > after a) Ship Stations, add the reference i).

Band : 4 to 29.7 Mc/s :

MOD

2. Land Stations :

after a) Coast Stations, add the reference h);

MOD

- 3. Mobile Stations :
 - a) Ship Stations :

after 2) Emission other than class Al, add the reference i).

HOL/70(5)

- 438,-

HOL/70(5)

Notes referring to Table of Frequency Tolerances

(contd.)

ADD

h) For coast radiotelephone station transmitters installed after 1 January, 1970 the tolerance is 20 c/s.

i) For ship radiotelephone station transmitters (other than those referred to in No. 987) installed after 1 January, 1970 the tolerance is 100 c/s.

Reasons :

To include in the table the frequency tolerances recommended by the C.C.I.R.

See also proposal relating to Appendix 17A (HOL/70(6)).

J/84(31)

MOD

Amend Appendix 3, Table of frequency tolerances as follows :

APPENDIX 3

Table of frequency tolerances *)

(See Article 12)

1. Frequency tolerance is defined in Article 1 and is expressed in parts 10⁶ or, in some cases, in cycles per second.

2. The power shown for the various categories of stations is the mean power as defined in Article 1.

* Certain services may need tighter tolerances for technical and operational reasons.

		-
Ref.		· .
J/84(31)	، 1. مى مەرىپىيە بىرىمەر	Distant name
(cont.)		
	Frequency bands	
•	(lower limit exclusiv	re,

Frequency bands (lower limit exclusive, upper limit inclusive) and categories of stations	Tolerances ap- plicable until 1 January 1966*) to transmitters in use and to those to be in- stalled before 1 January 1964	Tolerances ap- plicable to new transmitters installed after 1 January 1964 and to all transmitters after 1 January 1966*)
		0 in the case of all rked with an asteris
1	2	3
Band : 1605 to 4000 kc/s		
1. Fixed stations :		
-power 200 W or less -power above 200 W	100 50	100 50
2. Land stations :		
-power 200 W or less -power above 200W	100 50	100 <u>h)</u> 50 <u>h)</u>
3. Mobile stations :		
a) Ship stations b) Survival craft	200	200 <u>i)</u>
stations c) Aircraft stations d) Land mobile stations	200 *) 200	300 100 *) 200
4. <u>Radiodetermination</u> <u>stations</u>		
-power 200W or less -power above 200 W	100 50	100 50
5. Broadcasting stations	50	20

J/84(31) (cont.)

1	2	3
Band : 4 to 29.7 Mc/s		
1. Fixed stations :		
-power 500 W or less -power above 500 W	100 30	50 15
2. Land stations :	. 1	
a) Coast stations :		
-power 500 W or less -power above 500 W and less than or equal to	50	50 <u>h)</u>
5 kW power above 5 kW	50, *) 50	30*) <u>h)</u> 15 <u>h)</u>
b) Aeronautical stations :		
-power 500 W or less -power above 500 W	100 50	100 50
c) Base stations :		
-power 500 W or less -power above 500 W	100 50	100 50
3. <u>Mobile stations</u> :		
a) Ship stations :		
 Class Al emission Emission other than class Al : 	200	200
-power 50 W or less -power above 50 W	50 c) 50	50 c) <u>i)</u> 50 <u>i)</u>
b) Survival craft stationsc) Aircraft stationsd) Land mobile stations	200 200 *) 200	200 1 00 *) 200
4. Broadcasting stations	30	15

·	otes referring to table of frequency tolerances	
) NOC	
) NOC	
•) NOC	
) NOC	
ADD) The tolerance applicable to radiotelephone constant of the station transmitters after 1 January 1970 is	
ADD) The tolerance applicable to radiotelephone sh station transmitters after 1 January 1974 is	
		1

Reasons :

To amend the frequency tolerance necessary for SSB system in accordance with C.C.I.R.'s Recommendation.

USA/22(49)

APPENDIX 3

Change Table of Frequency Tolerances*) applicable to high traffic ship stations using Class Al emission from 200 parts per million to 50 parts per million, as indicated hereinafter :

<u>مود بر این این این این این این این این این این</u>	Malana and a	Malana and a			
Barrier David	Tolerances	Tolerances			
Frequency Bands	applicable until	applicable to new			
(lower limit exclusive,	1 January 1966 ¹⁾ to	transmitters installed			
upper limit inclusive)	transmitters in use	after 1 January 1964			
and	and to those to be	and to all			
Categories of Stations	installed before	transmitters after			
	1 January 1964	1 January 1966 ¹⁾			
	1) 1 January 1970 in the case of all				
	tolerances marked with an asterisk				
b) Aeronautical Stations:	100	100			
-power 500 W or less	100	100			
-power above 500 W	50	50			
c) Base Stations:					
-power 500 W or less	100	100			
-power above 500 W	50	50			
3. Mobile Stations:					
a) Ship Stations:					
1) Class Al emission	200	200			
Low traffic sh	ips 200	200			
High traffic s		50**)			
	αφατατούξατα;≡ >	~ '			
2) Emission other than					
Class Al:					
-power 50 W or less	50 c)	50 c)			
-power above 50 W	50	50			
b) Survival Craft Stations	200	200			
c) Aircraft Stations	200*)	100*)			
d) Land Mobile Stations	200	200			
4. Broadcasting Stations	30	15			

*) As amended by the E.A.R.C. Space (1963)

**) Effective upon the entry into force of the revised Regulations

Proposals relating to Appendix 9

Service Documents

List IV. List of Coast Stations List V. List of Ship Stations

AFFENCIX 9 Service Documents (See Articles 8, 9, 10 and 20)

List IV. List of Coast Stations

Part A. Alphabetical index of coast stations.

Name of the station	Call sign	See part B, page		
1	· · · · 2 · · · ·	3		

Part B. Particulars of coast stations.

		Emission		Service			inates of ntenna de in de- seconds)		
Name of the station ¹	Call sign	Frequencies ^a (kc/s or Alc/s)	Class	Power (kW) ³	Nature	Hours of service (G.M.T.)	Charges 4 4	Geographical co-ordinates the transmitting antenna (longitude and latitude in c grees, minutes and second	Remarks ⁶ 7
1	2	3	4	5	6	7	8	9	10

Names of countries arranged in alphabetical order of abbreviations. Names of stations in alphabetical order.

¹ Indicate for each country the coast station or coast stations to which radiotelegrams intended for high frequency transmission to ship stations should be sent.

^a The normal working frequency is printed in heavy type. In the case of duplex telephony, frequencies used for transmission and reception are indicated in conformity with No 1322.

- ³ In the case of directive antennae, indicate under the power, the azimuth of the direction or directions of maximum gain, in degrees, beginning from True North clockwise.
- ⁴ The internal telegraph charge of the country to which the coast station is subject and the charge applied by this country to telegrams destined for adjacent countries are given at the end of this list.
- ⁶ If the accounts for charges are settled by a private enterprise, the name and address of such private enterprise should, if necessary, be stated.
- Indicate if radar service is provided.
- ⁷ Information concerning the times of transmission of traffic lists, and the hours of watch keeping of the coast station on the various frequencies, etc.

(continuation)

- 446 -

List V. List of Ship Stations

Particulars of ship stations

The information concerning these stations shall be published in two or three lines in the following order :

Ist line :

- call sign, name of the ship in alphabetical order irrespective of nationality, followed by the call sign in the case of duplication of names (in this case, the name and the call sign shall be separated by a fraction bar) and the service symbols (see Appendix 10);
- nature of service;
- hours of service in the form of a symbol or a reference.

Times not indicated by a symbol shall be given in Greenwich Mean Time (G.M.T.).

2nd and 3rd lines:

below the call sign:

- the basic ship charge per word for a radiotelegram¹;
- if appropriate, the basic ship charge for a radiotelephone call of three minutes.¹

This information shall be followed by a note reference to indicate the administration or private enterprise to which the accounts should be addressed. In case of a change of address of the operating authority, a second note reference after the charge should indicate the new address and the date from which the change will take effect ;

- when two or more ships of the same nationality bear the same name, and also where the accounts for the charges should be see directly to the owner of the ship, the name of the shipping line of the firm to which the ship belongs shall be given by means of note reference;
- the country having jurisdiction over the station (abbreviated in cation);
- the bands of frequencies and the classes of emissions shall be in cated by means of the following abbreviations printed in hea type:

Radiote	legraphy

Radiotelephony

				· · ·	· · ·					
₩	<u></u>	110 —	150	kc/s		t	7	1 605	4 000	kc/s
х	==	405 —	535	kc/s		ิน	=	4 000 2	23 000	kc/s
y .	==	1 605 — 3	800	kc/s		v	==	156 —	174	Mc/s
Z	-==	4 000 25	110	kc/s				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	

These abbreviations should, if necessary, be followed by referent to brief notes and indications of the frequencies for which the transmitt are adjusted, which shall appear at the end of the list.

The meanings of abbreviations shall be printed at the foot of ever second page of the list.

¹ These charges are fixed or approved by each administration.

APPENDIX 9

F/109(106)

MOD

A)

B)

In the text relating to List IV - List of Coast Stations - Part B :

- Add a footnote 8 in the heading of column 1 of the table which will then read :

"Name-of-the-station" -8"-

- Add at the end

"8 Where appropriate, the name of the station shall be followed by the identification number, in brackets, used when the station transmits selective call signals."

MOD

At the end of the text concerning List V - List of Ship Stations - add :

" - where appropriate, the letter t or v shall be followed by (S) to show that the ship is equipped for selective calling on the international frequency provided in the Radio Regulations for this purpose in the band concerned."

ADD

C) After the text on List VI, add :

"List VII bis : List of selective call numbers used in the maritime mobile service

Part I - List of call numbers assigned to ships

station 1 selective call	Name of the Call number Frequencies used for the station 1
--------------------------	--

¹ The names of ships shall be shown in alphabetical order irrespective of nationality. Homonyms shall be followed by the call sign (the name and the call sign to be separated by a fraction bar).

ADD

Part II - List of identification numbers of coast stations

	Identification number 1	Name and nationality of coast station	Frequencies used for the selective call	
Į				

1 The numbers shall be shown in logical order.

Reasons

To include in the Regulations provisions on selective calling devices as defined in draft Recommendation D.a prepared by C.C.I.R. Study Group XIII.

G/91(53)

Appendix 9

List V. List of ship stations.

MOD

2nd and 3rd lines :

below the call sign :

- the selective call number;
- the basic ship charge per word for a radio-telegram; 1

- if appropriate, the basic ship charge for a radiotelephone call of three minutes.¹

. . .

Reasons :

To provide for the inclusion of the selective call number.

¹ These charges are fixed or approved by each administration.

Service Document Symbols

Modified by the E.A.R.C. For Space. Service Document Symbols

(See Article 20 and Appendix 9)

×	Station on board a warship or a military or naval aircraft ("GS") ¹
D	Station classified as situated in a region of heavy traffic (Ar- ticle 32) ("TI") ¹
0	By day ("HJ") ¹
o	By night (" HN ") ¹
[]	A ship which carries lifeboats equipped with radio apparatus; a number inside the brackets shows the number of such lifeboats ("S") ¹
$\mathbf{\nabla}$	High-traffic ship ("HS") ¹
3	Radar facilities available ["R("] ¹
AL	Aeronautical radionavigation land station
AM	Aeronautical radionavigation mobile station
AT	Amateur station
AX	Aeronautical fixed station
BC	Broadcasting station, sound
BT	Broadcasting station, television
С	Continuous operation during hours shown
Ca	Cargo ship
со	Station open to official correspondence exclusively
СР	Station open to public correspondence
CR ·	Station open to limited public correspondence
CV	Station open exclusively to correspondence of a private agency
D30°	Directive antenna having maximum radiation in the direction of 30° (expressed in degrees from True North, from 0 to 360 clockwise)
DR	Directive antenna provided with a reflector
EC	Communication-satellite space station
ED	Space telecommand space station
EH	Space research space station
EK	Space tracking space station
EM EN	Meteorological-satellite space station Radionavigation-satellite space station
ER	Space telemetering space station
EX	Experimental station
FA	Aeronautical station
FB	Base station
FC	Coast station
FE	Earth station (Earth-Space service)
FL	Land station
	Port station
FP	
FP FR	Receiving station only, connected with the general network of telecommunication channels
	Receiving station only, connected with the general network of
FR	Receiving station only, connected with the general network of telecommunication channels

• · ·

(continuation)

	- 452 -
Н	Scheduled operation
H8	8-hour service provided by a ship station of the second category
H16	16-hour service provided by a ship station of the second category
H24	Continuous throughout the twenty-four hours
, HJ	Day service
HN	Night service
HT	Transition period service
HX	Intermittent throughout the twenty-four hours, or station having no specific working hours
I	Intermittent operation during the time indicated
LR	Radiolocation land station
MA	Aircraft station
ME	Space station
ML	Land mobile station
МО	Mobile station
MR	Radiolocation mobile station
MS	Ship station
ND	Non-directional antenna
NL	Maritime radionavigation land station
OT	Station open exclusively to operational traffic of the service concerned
Pa	Passenger ship
RA	Radio astronomy station
RC	Non-directional radiobeacon
RD	Directional radiobeacon
RG	Radio direction-finding station
RM	Maritime radionavigation mobile station
RT	Revolving radiobeacon
SM SS	Meteorological aids station Standard frequency station
SS TC	Communication-satellite earth station
TD	Space telecommand earth station
TH	Space research earth station
ТК	Space tracking earth station
TM	Meteorological-satellite earth station
TN	Radionavigation-satellite earth station
TR	Space telemetering earth station
TS	Television, sound channel
TV	Television, vision channel

Ref.

APPENDIX 10

Add after the symbol "RT"

F/109(107)

"S ship station equipped for selective calling on an international frequency provided for this purpose in the Radio Regulations".

Reasons :

ADD

To include in the Regulations provisions on selective calling devices as defined in draft Recommendation D.a prepared by C.C.I.R. Study Group XIII.

	1	112	- 1
USA	177	71 0.	A 1
UGA	1	1 2	41

APPENDIX 10

Service Document Symbols

ADD	OD	<u>Ocean Data Station</u>
ADD	OE	Ocean Data Telecommand Station

Reasons :

To accommodate requirements for oceanographic communications in the exclusive HF maritime mobile bands.

Ref.

DNK/ISL/NOR/30(3)

Appendix 10

Service Document Symbols (See Article 20 and Appendix 9)

ADD

A ship which carries survival craft stations intended primarily as beacons to indicate the positions of survivors or the location of a mobile station in distress.

The letter(s) inside the square means:

- A The equipment is intended for operation on 2182 kc/s in accordance with No. 1476B^{*}).
- B The equipment is intended for operation on 2182 kc/s in accordance with No. $1476C^*$.
- C The equipment is intended for operation on 121.5 Mc/s in accordance with No. 1476D*.
- D The equipment is intended for operation on 243 Mc/s in accordance with No. $1476D^*$.

The number following the letter(s) shows the number of apparatus of the various types on board the ship.

Example:

WXYZ Uni	on $\boxed{A8 CD3}$ $(\land \land)$ CP H16
40 l) AB	C xyz t
Meaning:	8 units of type L on 2182 kc/s 3 units of equipment on 121.5 and 243 Mc/s.

*) Proposal DNK/ISL/NOR/30(2)

Reasons:

It is highly desirable to have available during distress situations or search and rescue operations information about which ships are carrying survival craft stations intended primarily as beacons to indicate the positions of survivors or the location of a mobile station in distress and the number of such apparatus on board the ships.

Documents with which Ship and Aircraft Stations shall be Provided

Section I. Ship Stations for which a Radiotelegraph Installation is Required by International Agreement

Point 8

Section III. Ship Stations for which a Radiotelephone Installation is Required by International Agreement

Point 5 🖞

APPENDIX 11

Documents with which Ship and Aircraft Stations shall be Provided

(See Articles 18, 20, 21, 23, 28, and Appendix 9)

Section I. Ship Stations for which a Radiotelegraph Installation is Required by International Agreement

These stations shall be provided with :

8. Radio Regulations and Additional Radio Regulations, also such provisions of the Convention as relate to the radiocommunication service on board ship;

Section III. Ship Stations for which a Radiotelephone Installation is Required by International Agreement

These stations shall be provided with :

5. the provisions of the Radio Regulations and Additional Radio Regulations applicable to the maritime mobile radiotelephone service.

Ref.

Appendix 11

<u>Section 1</u>

G/62 (70)

Radio Regulations and Additional Radio Regulations, also such provisions of the Convention as relate to the radiocommunication service on board ship, or Manual for use by the Maritime Mobile Service.

Reasons :

8

MOD

To provide for the carriage of the Manual.

USA/28 (64)

MOD

APPENDIX 11, Section I :

8. <u>The Radio Regulations and Additional Radio</u> Regulations, <u>plus</u> also such provisions of the Convention as relate to the radio communication service aboard ship, <u>or the Manual for use by the maritime mobile</u> <u>service</u>.

Section III

USA/28(65) MOD

5. The provisions of the Radio Regulations and Additional Regulations applicable to the maritime mobile radiotelephone service - <u>or the manual for</u> <u>use by the maritime mobile service</u>.

Reasons :

To permit use of a more compact and inexpensive publication for use by the maritime mobile service on board those ship stations where the Radio. Regulations and additional Radio Regulations are required by Appendix 11.

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Hours of Service for Ship Stations in the Second Category

Sections I and II

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APPENDIX 12

Hours of Service for Ship Stations in the Second Category (See Articles 20 and 25)

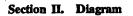
Section I. Table

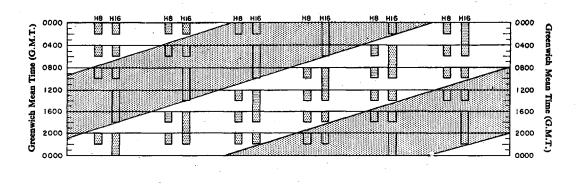
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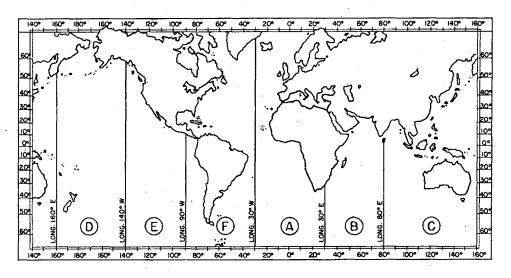
Zones	Western limits	Eastern limits	(Greenwic	s of Service ch Mean Tir J.M.T.)
	n		8 hours (H8)	16 hour (H16)
A Eastern Atlantic	Meridian of 30°	Meridian of 30° E,	from to	from t
Ocean, Mediter- ranean, North Sea, Baltic.	W, Coast of Greenland.	to the South of the coast of Africa, Eastern limits of the Mediterranean, of the Black Sea, and	8 h. 10 12 h. 14 16 h. 18 20 h. 22	h. 8 h. 14 h. 16 h. 18
· · · ·		of the Baltic, Meri- dian of 30° E north- wards from the coastline of Norway.		
B Western Indian Ocean, Eastern	Eastern limit of Zone A.	Meridian of 80° E, Western Coast of	from to 4 h. 6 l	
Arctic Ocean.		Ceylon to Adam's	8 h. 10 l	h. 4 h. 10
		Bridge, thence West- ward round the	12 h. 14 l 16 h. 18 l	
		coast of India, Meri- dian 80° E to north- wards from the coastline of the		20 h. 24
		U.S.S.R.		_
C Eastern Indian	Eastern limit of	Meridian of 160° E,	from to	
Ocean, China Sea, Western	Zone B.	as far as the coast of Kamchatka, Meri-	0h. 21 4h. 61	
Pacific Ocean, Eastern Arctic Ocean.	· · · ·	dian of 160° E northwards from the coastline of the U.S.S.R.	8 h. 10 l 12 h. 14 l	
<u> </u>			 	<u> </u>
D Central Pacific Ocean.	Eastern limit of Zone C.	Meridian of 140°W.	from to 0h. 2h	
Occan	20110 0.		4 h. 6 h	
	1		8h. 10h 20h. 22h	
			2011. 221	20 h. 24 l
E			from to	from to
Eastern Pacific Ocean.	Eastern limit of Zone D.	Meridian of 90°W, as far as the coast of	0h, 2h	
1		Central America,	4h. 6h	. 4h. 61
		thence Western coast of Central	16 h. 18 h 20 h. 22 h	1
		America and of North America.	2011. 2411	
	 		from to	from to
Western Atlantic Ocean and Gulf	Meridian of	Meridian of 30°W,	0 h. 2 h	
of Mexico.	90°W, Gulf of Mexico, East-	coast of Greenland.	12 h. 14 h	
	ern coast of North Ame-		16 h. 18 h 20 h. 22 h	1
	rica.		~	l l

(continuation)

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Appendix 12

Amend heading to read :

G/64(75) MOD

Hours of Service for Ship Stations of the Second and Third Categories.

Reasons :

Opinion :

Consequent upon the separation of H16 and H8 ships into separate categories.

HOL/75 (33)

Hours of service for ship stations.

In the opinion of the Netherlands Administration the existing hours of service for ship stations are adequate and need not be changed.

Reasons :

1. The Netherlands Administration does not experience traffic congestion in the bands between 4000 and 27 500 kc/s during single operator watch periods, as referred to in Recommendation No. 27 of the Administrative Radio Conference, Geneva 1959.

2. Coast stations desiring to send messages of general interest to ship stations in different parts of the world, can reach these stations in four of the six zones at the same time.

If the hours of watchkeeping by single operator ships are staggered, as considered in Recommendation No. 27, the coast stations will have to increase the number of transmissions intended for all ships.

3. When eight hours listening watch is required by a radio officer, this watch shall be maintained during the hours of service as prescribed in Appendix 12 for ship stations placed in the second category.

For ship stations placed in the third category, administrations may choose other hours of listening or hours of service so long as the required eight hours listening watch by the radio officer is maintained.

As specified in No. 933, administrations are free to determine the category of service for their ship radiotelegraph stations and in this way may select a special system of watchkeeping which is not in accordance with Appendix 12.

Replace Section I by :

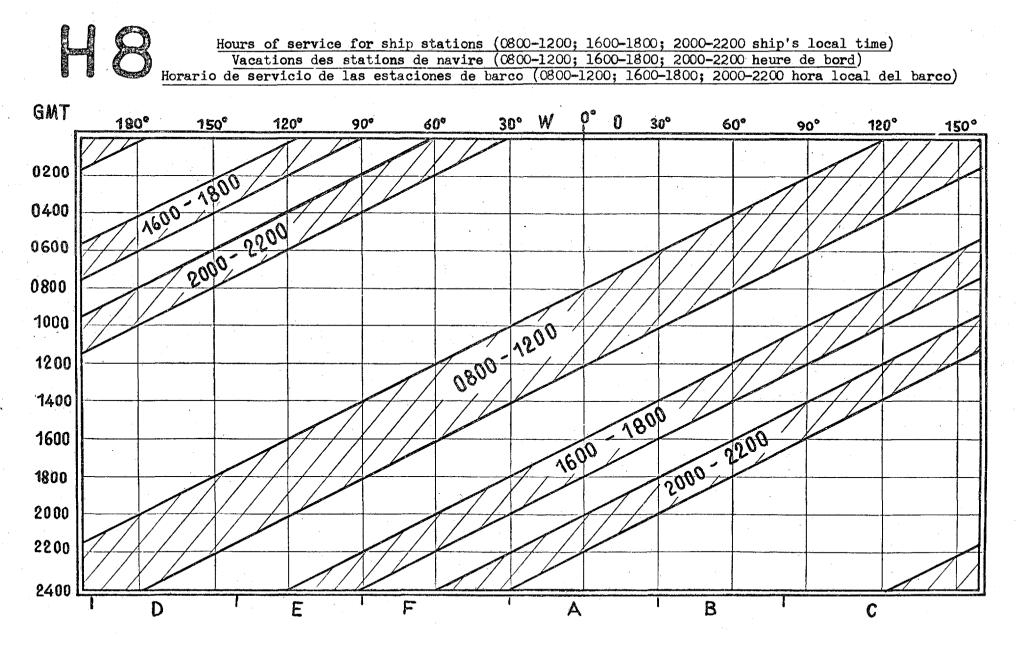
	8 hours	:		16 hours
. · · ·	(н 8)			(H 16)
08.00 - 12	.00 ship's	local	time	08.00 - 24.00 ship's local time
16.00 - 18	.00	88	50	
20.00 - 22	.00 ¹¹	25	8 8	

RFA/5(3)

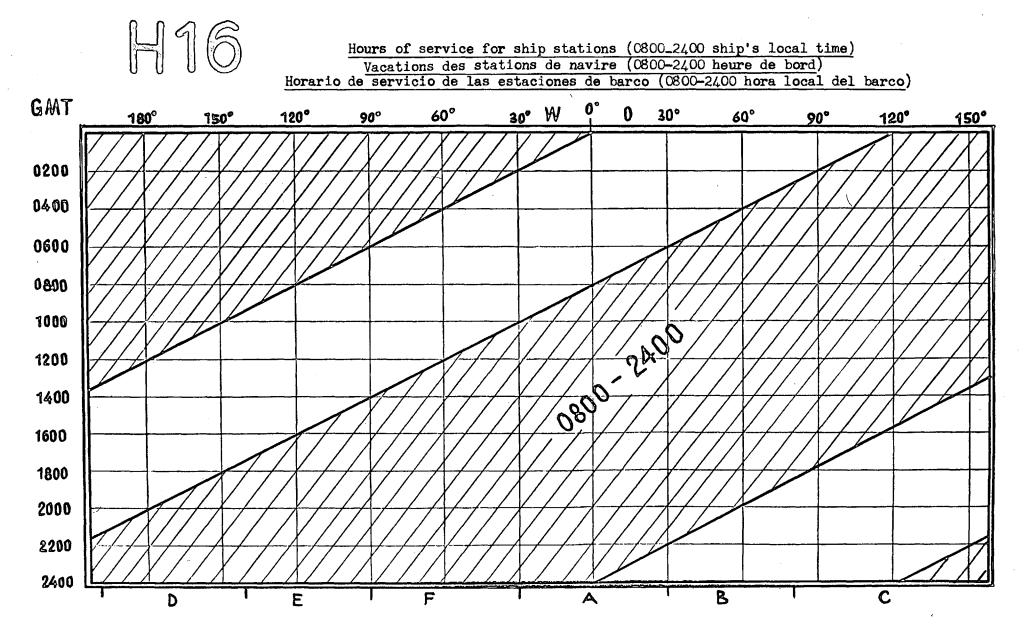
RFA/5(4)

Replace the upper part of Section II (diagram) by the diagrams which follow :

Ref. RFA/5(4) (contd.)



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Reasons:

1. A more even traffic loading of the bands between 4000 and 27 500 kHz as mentioned in Recommendation No. 27 of the Radio Regulations will be achieved to an optimum extent by the proposed regulation of service hours which ensures a nearly uninterrupted succession of service hours all over the world since the operation of the stations are based on ships' local time.

2. In any given sea area with a diameter of about 500 nautical miles, i.e. within the normal range of a medium-wave transmitter, all ship stations of the second category are on watch at the same time. For the north-south direction this is even the case at an unlimited distance.

3. Transmissions from coast stations of a regional character (meteorological bulletins, traffic lists, etc.), are mainly effected during the proposed service hours (and in most cases even to a larger extent than in the past). Supra-regional transmissions - propagated mainly on short waves - cannot be covered by any regulation of service hours whatsoever.

4. Special consideration has been given to hours of dusk, which are favourable for short-wave communications.

5. The proposed hours of service are compatible with the various operations on board ships and with the watchkeeping system of all other officers. They will ensure a longer break during the day (12-16 hours) for the radio officer and give the ship's command a clearer conception of the hours of radio service to be observed.

USSR/53(9)

Proposal

It is proposed that the existing arrangements for hours of service of ship stations be maintained.

Comments

With regard to the hours of service of ship radio stations, it is proposed that present arrangements be maintained. Years of experience in the application of these hours do not suggest that there is any need to change them. Moreover, it should be remembered that the operation of coast radio stations which provide a communications service with ships at sea is organized in the light of ships' hours of operation and that any change in the latter would involve changing the system of operation of coast stations; new working frequencies would also be needed and the existing distribution of frequencies among the coast stations of the world would be disturbed. USA/22(54)

Agenda Item 7.4 : Review of service hours for ship stations

U.S. Position :

The U.S. considers that the provisions now in the Radio Regulations concerning ships of the third category (No. 932) are appropriate, provided the optional provisions contained in No. 933 are maintained.

Background :

In the U.S., radiotelegraph equipped cargo ships which carry one radio officer, are licensed in the third category as specified in the Radio Regulations, No. 932. Such U.S. ships may select their own particular hours of watch or hours of service so long as the required eight hours watch by the radio officer is maintained. (This is permitted under No. 933). No set schedule can be specified, therefore, that is applicable to all ships. The generalization can be made, however, that, in implementing the Radio Regulations, U.S. ships normally maintain an aggregate of eight hours watch during the period 9 a.m. until 9 p.m. ship's local time.

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Proposals relating to

Appendix 13

Miscellaneous Abbreviations and Signals to be used in Radiotelegraphy Communications

APPENDIX 13

Miscellaneous Abbreviations and Signals to be used in Radiotelegraphy Communications

(See Article 29)

SECTION I. Q CODE

Introduction

1. The series of groups QRA to QVZ, listed in this Appendix, are for use by all services.

2. The QAA to QNZ series are reserved for the aeronautical service and the QOA to QQZ series are reserved for the maritime services. These series are not listed in these Regulations.

3. Certain Q code abbreviations may be given an affirmative or negative sense by sending YES or NO respectively, immediately following the abbreviation.

4. The meanings assigned to Q code abbreviations may be amplified or completed by the addition of appropriate other groups, call signs, place names, figures, numbers, etc. It is optional to fill in the blanks shown in parentheses. Any data which is filled in where blanks appear shall be sent in the same order as shown in the text of the following tables.

5. Q code abbreviations are given the form of a question when followed by a question mark. When an abbreviation is used as a question and is followed by additional or complementary information, the question mark should follow this information.

6. Q code abbreviations with numbered alternative significations shall be followed by the appropriate figure to indicate the exact meaning intended. This figure shall be sent immediately following the abbreviation.

7. All times shall be given in Greenwich Mean Time (G.M.T.) unless otherwise indicated in the question or reply.

Abbreviations Available for All Services

A. List of Abbreviations in Alphabetical Order

Abbre- viation	Question	Answer or Adivce
·	1	
QRÁ	What is the name of your station?	The name of my station is
QRB	How far approximately are you from my station?	The approximate distance betwee our stations is nautical mil (or kilometres)
QRC	By what private enterprise (or State Administration) are the accounts for charges for your station settled?	The accounts for charges of n station are settled by the priva enterprise (or State Admini tration).
QRD	Where are you bound for and where are you from?	I am bound for from
QRE	What is your estimated time of arrival at (or over) (place)?	My estimated time of arrival at. (or over) (place) is hour
QRF	Are you returning to (place)?	I am returning to (place).
		Return to (place).
QRG	Will you tell me my exact frequency (or that of)?	Your exact frequency (or that of) is kc/s (or Mc/s).
QRH	Does my frequency vary?	Your frequency varies.
QRJ	How is the tone of my transmission?	The tone of your transmission is 1. good 2. variable 3. bad.
QRJ	How many radiotelephone calls have you to book?	I have radiotelephone calls t book.
QRK	What is the intelligibility of my signals (or those of)?	The intelligibility of your signa (or those of) is 1. bad 2. poor 3. fair 4. good 5. excellent.
QRL	Are you busy?	I am busy (or I am busy with Please do not interfere.
QRM	Are you being interfered with?	I am being interfered with (1. nil 2. slightly 3. moderately 4. severely 5. extremely).
QRN	Are you troubled by static?	I am troubled by static (1. nil 2. slightly 3. moderately 4. severely 5. extremely).
QRO	Shall I increase transmitter power?	Increase transmitter power.
QRP	Shall I decrease transmitter power?	Decrease transmitter power.
QRQ	Shall I send faster?	Send faster (words per minute)

Abbre- viation	Question	Answer or Advice
QRR	Are you ready for automatic opera- tion?	l am ready for automatic operation. Send at words per minute.
QRS	Shall I send more slowly?	Send more slowly (words per minute).
QRT	Shall I stop sending?	Stop sending.
QRU	Have you anything for me?	I have nothing for you.
QRV	Are you ready?	I am ready.
QRW	Shall I inform that you are calling him on kc/s (or Mc/s)?	Please inform that I am calling him on kc/s (or Mc/s).
QRX	When will you call me again?	I will call you again at hours (on kc/s (or Mc/s).
QRY	What is my turn? (Relates to communication)	Your turn is Number (or accord- ing to any other indication). (Relates to communication).
QRZ	Who is calling me?	You are being called by (on kc/s (or Mc/s)).
QSA	What is the strength of my signals (or those of)?	 The strength of your signals (or those of) is 1. scarcely perceptible 2. weak 3. fairly good 4. good 5. very good.
QSB	Are my signals fading?	Your signals are fading.
QSC	Are you a cargo vessel? (see Article 32, Section V)	I am a cargo vessel.
QSD	Is my keying defective?	Your keying is defective.
QSE	What is the estimated drift of the survival craft?	The estimated drift of the survival craft is (figures and units)
QSF	Have you effected rescue?	I have effected rescue and am pro- ceeding to base (with persons injured requiring am- bulance).
QSG	Shall I send telegrams at a time?	Send telegrams at a time.
QSH	Are you able to home on your D/F equipment?	I am able to home on my D/F equip- ment (on station).
QSI	equipment :	I have been unable to break in on your transmission.
		or
		Will you inform (call sign) that I have been unable to break in on his transmission (on kc/s (or Mc/s)).
QSJ	What is the charge to be collected to including your internal charge?	The charge to be collected to including my internal charge is francs.
QSK	Can you hear me between your signals and if so can I break in on your transmission?	I can hear you between my signals; break in on my transmission.

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Question	Answer or Advice
Can you acknowledge receipt?	I am acknowledging receipt.
Shall I repeat the last telegi which I sent you (or some p vious telegram)?	
Did you hear me (or (call sig on kc/s (or Mc/s)?	gn)) I did hear you (or (call sign)) on kc/s (or Mc/s).
Can you communicate with . direct (or by relay)?	I can communicate with direct (or by relay through).
Will you relay to free of char	rge? I will relay to free of charge.
Have you a doctor on board is (name of person) on boar	
Shall I repeat the call on the call frequency?	ling Repeat your call on the calling fre- quency; did not hear you (or have interference).
What working frequency will use?	you I will use the working frequency kc/s (normally only the last three figures of the frequency need be given).
Shall I send or reply on this quency (or on kc/s (or Mo (with emissions of class)?	c/s)) on kc/s (or Mc/s)) (with emis-
Shall I send a series of V's on frequency (or kc/s (or Mc/	
Will you send on this frequency on kc/s (or Mc/s)) (with er sions of class)?	<i>i</i> (or mis- I am going to send on this frequency (or on kc/s (or Mc/s)) (with emissions of class).
Will you listen to (call sign (on kc/s (or Mc/s)?	(s)) I am listening to (call sign (s)) on kc/s (or Mc/s).
Shall I change to transmission another frequency?	on Change to transmission on another frequency (or on kc/s (or Mc/s)).
Shall I send each word or gro more than once?	oup Send each word or group twice (or, times).
Shall I cancel telegram number .	? Cancel telegram number
Do you agree with my counting words?	g of I do not agree with your counting of words; I will repeat the first letter or digit of each word or group.
How many telegrams have you send?	I to I have telegrams for you (or for).
What has the rescue vessel or res aircraft recovered?	scue (identification) has recovered 1 (number) survivors 2. wreckage 3 (number) bodies.

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Abbre- viation	Question	Answer or Advice
QTE	What is my TRUE bearing from you?	Your TRUE bearing from me is degrees at hours.
	or	or
	What is my TRUE bearing from (call sign)? or	Your TRUE bearing from (call sign) was degrees at hours. or
	What is the TRUE bearing of (call sign) from (call sign)?	The TRUE bearing of (call sign) from (call sign) was degrees at hours.
QTF	Will you give me the position of my station according to the bearings taken by the D/F stations which you control?	The position of your station ac- cording to the bearings taken by the D/F stations which 1 control was latitude longitude (or other indication of position), classathours.
QTG	Will you send two dashes of ten seconds each followed by your call sign (repeated times) (on kc/s (or Mc/s))? or	I am going to send two dashes of ten seconds each followed by my call sign (repeated times) (on kc/s (or Mc/s)). or
	Will you request to send two dashes of ten seconds followed by his call sign (repeated times) on kc/s (or Mc/s)?	I have requested to send two dashes of ten seconds followed by his call sign (repeated times) on kc/s (or Mc/s).
QTH	What is your position in latitude and longitude (or according to any other indication)?	My position is latitude longi- tude (or according to any other indication).
QTI	What is your TRUE track?	My TRUE track is degrees.
ιτο	What is your speed?	My speed is knots (or kilo- metres per hour or statute miles per hour).
	(Requests the speed of a ship or air- craft through the water or air respectively.)	(Indicates the speed of a ship or air- craft through the water or air respectively.)
QTK	What is the speed of your aircraft in relation to the surface of the earth?	The speed of my aircraft in relation to the surface of the earth is 'knots (or kilometres per hour or statute miles per hour).
QTL	What is your TRUE heading?	My TRUE heading is degrees.
QTM	What is your MAGNETIC head- ing?	My MAGNETIC heading is degrees.
QTN	At what time did you depart from (place)?	I departed from (place) at hours.
QTO	Have you left dock (or port)?	I have left dock (or port).
	Are you airborne?	I am airborne.
QTP	Are you going to enter dock (or port)? or	I am going to enter dock (or port). or
	Are you going to alight (or land)?	I am going to alight (or land).
QTQ	Can you communicate with my sta- tion by means of the International	I am going to communicate with your station by means of the
	Code of Signals? What is the correct time?	International Code of Signals. The correct time is hours.

		····
bbre- iation	Question	Answer or Advice
QTS	Will you send your call sign for tuning purposes or so that your frequency can be measured now (or at hours) on kc/s (or	I will send my call sign for tuning purposes or so that my frequency may be measured now (or at hours) on kc/s (or Mc/s).
QTT	Mc/s)?	The identification signal which
		follows is superimposed on an- other transmission.
QTU	What are the hours during which your station is open?	My station is open from to hours.
QTV	Shall I stand guard for you on the frequency of kc/s (or Mc/s) (from to hours)?	Stand guard for me on the fre- quency of kc/s (or Mc/s) (from to hours).
QTW	What is the condition of survivors?	Survivors are in condition and urgently need
QTX	Will you keep your station open for further communication with me until further notice (or until hours)?	I will keep my station open for further communication with you until further notice (or until hours).
QTY	Are you proceeding to the position of incident and if so when do you expect to arrive ?	I am proceeding to the position of incident and expect to arrive at hours (on date).
QTZ	Are you continuing the search?	I am continuing the search for (aircraft, ship, survival craft, sur- vivors or wreckage).
QUA	Have you news of (call sign)?	Here is news of (call sign).
•		•
QUB	Can you give me in the following order information concerning: the direction in degrees TRUE and speed of the surface wind; visibility; present weather; and amount, type and height of base of cloud above surface elevation at (place of observation)?	Here is the information requested : (The units used for speed and distances should be indicated.)
QUC	What is the number (or other indi- cation) of the last message you received from me (or from (call sign))?	The number (or other indication) of the last message I received from you (or from (call sign)) is
QUD	Have you received the urgency signal sent by (call sign of mobile station)?	I have received the urgency signal sent by (call sign of mobile station) at hours.
QUE	Can you use telephony in (lan- guage), with interpreter if neces- sary; if so, on what frequencies?	I can use telephony in (lan- guage) on kc/s (or Mc/s).
QUF	Have you received the distress signal sent by (call sign of mobile station)?	I have received the distress signal sent by (call sign of mobile station) at hours.
QUG	Will you be forced to alight (or land)?	I am forced to alight (or land) imme- diately. or
		I shall be forced to alight (or land) at (position or place) at hours.
QUH -	Will you give me the present baro- metric pressure at sea level?	The present barometric pressure at sea level is (units).

Abbre- viation	Question	Answer or Advice
QUJ	Will you indicate the TRUE track to reach you (or)?	The TRUE track to reach me (or) is degrees at hours.
QUK	Can you tell me the condition of the sea observed at (place or co-ordinates)?	The sea at (place or co-ordinates) is
QUL	Can you tell me the swell observed at (place or co-ordinates)?	The swell at (place or co-ordin- ates) is
QUM	May I resume normal working?	Normal working may be resumed.
QUN	Will vessels in my immediate vi- cinity	My position, TRUE course and speed are
	(in the vicinity of latitude longitude)	:
	or (in the vicinity of) please indicate their position, TRUE course and speed?	
QUO	Shall I search for	Please search for
	 aircraft ship survival craft in the vicinity of latitude longitude (or according to any other indication)? 	 aircraft ship survival craft in the vicinity of latitude longitude (or according to any other indication).
QUP	Will you indicate your position by	My position is indicated by
	 searchlight black smoke trail pyrotechnic lights? 	 searchlight black smoke trail pyrotechnic lights.
QUQ	Shall I train my searchlight nearly vertical on a cloud, occulting if possible and, if your aircraft is seen, deflect the beam up wind and on the water (or land) to faci- litate your landing?	Please train your searchlight on a cloud, occulting if possible and, if my aircraft is seen or heard, deflect the beam up wind and on the water (or land) to facilitate my landing.
QUR	Have survivors 1. received survival equipment	Survivors 1. are in possession of survival equipment dropped by
	 been picked up by rescue vessel been reached by ground rescue 	 2. have been picked up by rescue vessel 3. have been reached by ground
QUS	party? Have you sighted survivors or wreckage? If so, in what position?	rescue party. Have sighted 1. survivors in water 2. survivors on rafts
		3. wreckage in position latitude lon- gitude (or according to any other indication).
QUT	Is position of incident marked?	Position of incident is marked by 1. flame or smoke float 2. sea marker 3. sea marker dye 4 (specify other marking).

Abbre- viation	Question	Answer or Advice
QUU	Shall I home ship or aircraft to my position?	 Home ship or aircraft (call sign) 1. to your position by transmitting your call sign and long dashes on kc/s (or Mc/s) 2. by transmitting on kc/s (or Mc/s) 2. TRUE track to reach you.
QUW	Are you in the search area desig- nated as (designator or latitude and longitude)?	I am in the (<i>designation</i>) search area.
QUY	Is position of survival craft marked?	Position of survival craft was marked at hours by 1. flame or smoke float 2. sea marker 3. sea marker dye 4 (specify other marking).

B. Lists of Signals According to the Nature of Questions, Answer or Advice

Abbre- viation	Question	Answer or Advice
	Name	
QRA	What is the name of your station ?	The name of my station is
	Route	
QRD	Where are you bound for and where are you from ?	I am bound for from
	Position	
QRB	How far approximately are you from my station ?	The approximate distance between our stations is nautical miles (or kilometres).
QTH	What is your position in latitude and longitude (or according to any other indication) ?	My position is latitude longi- tude (or according to any other indication).
QTN	At what time did you depart from (place) ?	I departed from (place) at hours.
	Quality of Signals	
QRI	How is the tone of my transmission?	The tone of your transmission is 1. good 2. variable 3. bad.
QRK	What is the intelligibility of my signals (or those of) ?	The intelligibility of your signals (or those of) is 1. bad 2. poor 3. fair 4. good 5. excellent.

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Abbre- viation	Question	Answer or Advice
	Strength of Signals	•
QRO	Shall I increase transmitter power ?	Increase transmitter power.
QRP	Shall I decrease transmitter power ?	Decrease transmitter power.
QSA	What is the strength of my signals (or those of) ?	The strength of your signals (or those of) is 1. scarcely perceptible 2. weak 3. fairly good 4. good 5. very good.
QSB	Are my signals fading ?	Your signals are fading.
• :	Keying	
QRQ	Shall I send faster ?	Send faster (words per minute).
QRR	Are you ready for automatic opera- tion ?	I am ready for automatic operation. Send at words per minute.
QRS	Shall I send more slowly ?	Send more slowly (words per minute).
QSD	Is my keying defective ?	Your keying is defective.
	Interference	
QRM	Are you being interfered with ?	I am being interfered with (1. nil 2. slightly 3. moderately 4. severely 5. extremely).
QRN	Are you troubled by static ?	I am troubled by static (1. nil 2: slightly 3. moderately 4. severely 5. extremely).
	Adjustment of Frequency	
QRG	Will you tell me my exact fre- quency (or that of) ?	Your exact frequency (or that of) is kc/s (or Mc/s).
QRH	Does my frequency vary ?	Your frequency varies.
QTS	Will you send your call sign for tuning purposes or so that your frequency can be measured now (or at hours) on kc/s (or Mc/s) ?	I will send my call sign for tuning purposes or so that my frequency may be measured now (or at hours) on kc/s (or Mc/s).
	Choice of Frequency and/or Class of Emission	
QSN	Did you hear me (or (call sign)) on kc/s (or Mc/s)?	I did hear you (or (call sign)) on kc/s (or Mc/s).
QSS	What working frequency will you use?	I will use the working frequency kc/s (normally only the last three figures of the frequency need be given).
QSU	Shall I send or reply on this fre- quency (or on kc/s (or Mc/s)) (with emissions of class)?	Send or reply on this frequency (or on kc/s (or Mc/s)) (with emis- sions of class).

		· · · · · · · · · · · · · · · · · · ·
Abbre- viation	Question	Answer or Advice
QSV	Shall I send a series of V's on this frequency (or kc/s (or Mc/s))?	Send a series of V's on this fre- quency (or kc/s (or Mc/s)).
QSW	Will you send on this frequency (or on kc/s (or Mc/s)) (with emis- sions of class)?	I am going to send on this frequency (or on kc/s (or Mc/s)) (with emissions of class).
QSX	Will you listen to (call sign(s)) on kc/s (or Mc/s)?	I am listening to (call sign(s)) on kc/s (or Mc/s).
	Change of Frequency	
QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on kc/s (or Mc/s)).
	Establishing Communication	
QRL	Are you busy?	I am busy (or I am busy with). Please do not interfere.
QRV	Are you ready?	I am ready.
QRX	When will you call me again?	I will call you again at hours (onkc/s (or Mc/s)).
QRY	What is my turn? (Relates to communication.)	Your turn is Number (or accord- ing to any other indication). (Relates to communication.)
QRZ	Who is calling me?	You are being called by (on kc/s (or Mc/s)).
QSC	Are you a cargo vessel? (See Article 32, Section V.)	I am a cargo vessel.
QSR	Shall I repeat the call on the calling frequency?	Repeat your call on the calling fre- quency; did not hear you (or have interference).
QTQ	Can you communicate with my sta- tion by means of the International Code of Signals?	I am going to communicate with your station by means of the International Code of Signals.
QUE	Can you use telephony in (lan- guage), with interpreter if neces- sary; if so, on what frequencies?	I can use telephony in (lan- guage) on kc/s (or Mc/s).
	Time	
QTR	What is the correct time?	The correct time is hours.
QTU	What are the hours during which your station is open?	My station is open from to hours.
	Charges	
QRC	By what private enterprise (or State Administration) are the accounts for charges for your station settled?	The accounts for charges of my station are settled by the private enterprise (or State Administration).
QSJ	What is the charge to be collected to including your internal charge?	The charge to be collected to including my internal charge is francs.
	Transit	
QRW	Shall I inform that you are calling him on kc/s (or Mc/s)?	Please inform that I am calling him on kc/s (or Mc/s).
QSO	Can you communicate with direct (or by relay)?	I can communicate with direct (or by relay through).

Abbre- viation	Question	Answer or Advice
QSP	Will you relay to free of charge?	I will relay to free of charge.
QSQ	Have you a doctor on board (or is (name of person) on board)?	I have a doctor on board (or (name of person) is on board).
QUA	Have you news of (call sign)?	Here is news of (call sign).
QUC	What is the number (or other indi- cation) of the last message you received from me (or from (call sign))?	The number (or other indication) of the last message I received from you (or from (call sign)) is
	Exchange of Correspondence	
QRJ	How many radiotelephone calls have you to book?	I have radiotelephone calls to book.
QRU	Have you anything for me?	I have nothing for you.
QSG	Shall I send telegrams at a time?	Send telegrams at a time.
QSI		I have been unable to break in on your transmission.
×		or Will you inform (call sign) that I have been unable to break in on his transmission (on kc/s (or Mc/s)).
QSK	Can you hear me between your signals and if so can I break in on your transmission?	I can hear you between my signals; break in on my transmission.
QSL	Can you acknowledge receipt?	I am acknowledging receipt.
QSM	Shall I repeat the last telegram which I sent you (or some pre- vious telegram)?	Repeat the last telegram which you sent me (or telegram(s) number(s)).
QSZ	Shall I send each word or group more than once?	Send each word or group twice (or times).
QTA	Shall I cancel telegram number?	Cancel telegram number
QTB	Do you agree with my counting of words?	I do not agree with your counting of words; I will repeat the first letter or digit of each word or group.
QTC	How many telegrams have you to send?	I have telegrams for you (or for).
QTV	Shall I stand guard for you on the frequency of kc/s (or Mc/s) (from to hours)?	Stand guard for me on the fre- quency of kc/s (or Mc/s) (from to hours).
QTX	Will you keep your station open for further communication with me until further notice (or until hours)?	I will keep my station open for further communication with you until urther notice (or until hours).
	Movement	
QRE	What is your estimated time of arrival at (or over)) (place)?	My estimated time of arrival at (or over) (place) is hours.
QRF	Are you returning to (place)?	I am returning to (place).
	· ·	Return to (place).

•

Abbre- viation	Question	Answer or Advice
QSH	Are you able to home on your D/F equipment?	I am able to home on my D/F equip- ment (on station).
QTI	What is your TRUE track?	My TRUE track is degrees.
ττο	What is your speed?	My speed is knots (or kilo- metres per hour or statute miles per hour).
	(Requests the speed of a ship or air- craft through the water or air respectively.)	(Indicates the speed of a ship or air- craft through the water or air respectively.)
QTK	What is the speed of your aircraft in relation to the surface of the earth?	The speed of my aircraft in relation to the surface of the earth is knots (or kilometres per hour or statute miles per hour).
QTL	What is your TRUE heading?	My TRUE heading is degrees.
QTM	What is your MAGNETIC head- ing?	My MAGNETIC heading is degrees.
QTN	At what time did you depart from (place)?	I departed from (place) at hours.
QTO	Have you left dock (or port)?	I have left dock (or port).
	Are you airborne?	I am airborne.
QTP	Are you going to enter dock (or port)?	I am going to enter dock (or port)
	Are you going to alight (or land)?	I am going to alight (or land).
QUG	Will you be forced to alight (or land)?	I am forced to alight (or land) imme- diately.
		I shall be forced to alight (or land) at (position or place) at hours.
QUJ	Will you indicate the TRUE track to reach you (or)?	The TRUE track to reach me (or) is degrees at hours.
QUN	Will vessels in my immediate vi- cinity or	My position, TRUE course and speed are
	(in the vicinity of latitude longitude)	
	(in the vicinity of)	
	please indicate their position, TRUE course and speed?	
	Meteorology	
QUB	Can you give me in the following order information concerning:	Here is the information requested
•	the direction in degrees TRUE and speed of the surface wind; visibility; present weather; and	(The units used for speed and distances should be indicated.)
	amount, type and height of base of cloud above surface elevation at (place of observation)?	
QUH	Will you give me the present baro- metric pressure at sea level?	The present barometric pressure a sea level is (units).
QUK	Can you tell me the condition of the sea observed at (place or co-ordinates)?	The sea at (place or co-ordinates, is

Abbre- viation	Question	Answer or Advice].
QUL	Can you tell me the swell observed at (place or co-ordinates)	The swell at (place or co-ordin- ates) is	
	Radio Direction-Finding		
QTE	What is my TRUE bearing from you?	Your TRUE bearing from me is degrees at hours.	
	what is my TRUE bearing from (call sign)?	or Your TRUE bearing from(call sign) was degrees at hours.	
	or What is the TRUE bearing of (call sign) from (call sign)?	or The TRUE bearing of (call sign) from (call sign) was degrees at hours.	
QTF	Will you give me the position of my station according to the bearings taken by the D/F stations which you control?	The position of your station ac- cording to the bearings taken by the D/F stations which I control was latitude longitude (or other indication of position), class at hours.	
QTG	Will you send two dashes of ten seconds each followed by your call sign (repeated times) (on kc/s (or Mc/s))? Will you request to send two dashes of ten seconds followed by his call sign (repeated times) on kc/s (or Mc/s)?	I am going to send two dashes of ten seconds each followed by my call sign (repeated times) (on kc/s (or Mc/s)). I have requested to send two dashes of ten seconds followed by his call sign (repeated times) on kc/s (or Mc/s).	
QRT	Suspension of Work Shall I stop sending?	Stop sending.	
QUM	May I resume normal working?	Normal working may be resumed.	
QUD	Urgency Have you received the urgency signal sent by (call sign of	I have received the urgency signal sent by (call sign of mobile	
	mobile station)?	station) at hours.	
QUG	Will you be forced to alight (or land)?	I am forced to alight (or land) imme- diately. or I shall be forced to alight (or land) at (position or place) at hours.	
QUF	Distress Have you received the distress signal sent by (call sign of mobile station)?	I have received the distress signal sent by (call sign of mobile station) at hours.	
QUM	May I resume normal working?	Normal working may be resumed.	
	Search and Rescue		
QSE	What is the estimated drift of the survival craft?	The estimated drift of the survival craft is (figures and units).	

	- 48	3 -
		·
Abbre- viation	Question	Answer or Advice
QSF	Have you effected rescue?	I have effected rescue and am pro- ceeding to base (with persons injured requiring am- bulance).
QTD	What has the rescue vessel or rescue aircraft recovered?	(identification) has recovered 1 (number) survivors 2. wreckage 3 (number) bodies.
QTW	What is the condition of survivors?	Survivors are in condition and urgently need
QTY	Are you proceeding to the position of incident and if so when do you expect to arrive? '	I am proceeding to the position of incident and expect to arrive at hours (on date).
QTZ	Are you continuing the search?	I am continuing the search for (aircraft, ship, survival craft, sur- vivors or wreckage).
QUI	Are your navigation lights working?	My navigation lights are working.
QUN	Will vessels in my immediate vi- cinity or	My position, TRUE course and speed are
	(in the vicinity of latitude longitude) or	
	(in the vicinity of) please indicate their position, TRUE course and speed?	
QUO	Shall I search for 1. aircraft 2. ship 3. survival craft in the vicinity of latitude longitude (or according to any other indication)?	Please search for 1. aircraft 2. ship 3. survival craft in the vicinity of latitude longitude (or according to any other indication).
QUP	Will you indicate your position by	My position is indicated by 1. searchlight
· · ·	 searchlight black smoke trail pyrotechnic lights? 	2. black smoke trail 3. pyrotechnic lights.
QUQ	Shall I train my searchlight nearly vertical on a cloud, occulting if possible and, if your aircraft is seen, deflect the beam up wind and on the water (or land) to faci- litate your landing?	Please train your searchlight on a cloud, occulting if possible and, if my aircraft is seen or heard, deflect the beam up wind and on the water (or land) to facilitate my landing.
QUR	Have survivors 1. received survival equipment	Survivors 1. are in possession of survival equipment dropped by
	 been picked up by rescue vessel been reached by ground rescue narty? 	 have been picked up by rescue vessel have been reached by ground rescue party.
QUS	party? Have you sighted survivors or wreckage? If so, in what posi-	Have sighted 1. survivors in water
	tion?	 2. survivors on rafts 3. wreckage in position latitude lon- gitude (or according to any other indication).
QUT	Is position of incident marked?	Position of incident is marked by 1. flame or smoke float 2. sea marker 3. sea marker dye

Abbre- viation	Question	Answer or Advice
QUU	Shall I home ship or aircraft to my position?	 Home ship or aircraft (call sign) 1. to your position by transmitting your call sign and long dashes on kc/s (or Mc/s) 2. by transmitting on kc/s (or Mc/s) TRUE track to reach you.
QUW	Are you in the search area desig- nated as (designator or latitude and longitude)?	I am in the (designation) search area.
QUY	Is position of survival craft marked?	 Position of survival craft was marked at hours by 1. flame or smoke float 2. sea marker 3. sea marker dye 4 (specify other marking).
	Identification	
QTT	· · · · · · · · ·	The identification signal which follows is superimposed on an- other transmission.

SECTION II. MISCELLANEOUS ABBREVIATIONS AND SIGNALS

Abbreviation or Signal	Definition
AA	All after (used after a question mark to request a repetition).
AB	All before (used after a question mark to request a repetition).
ADS	Address (used after a question mark to request a repetition).
ĀR	End of transmission (
AS	Waiting period (to be sent as one signal).
BK	Signal used to interrupt a transmission in progress.
BN	All between and (used after a question mark to request a repe- tition).
BQ	A reply to an RQ.
CFM	Confirm (or I confirm).
CL	I am closing my station.
COL	Collate (or I collate).
СР	General call to two or more specified stations (see Article 31).
CQ	General call to all stations (see Article 31).
CS	Call sign (used to request a call sign).
DDD	Used to identify the transmission of the distress message by a station not itself in distress (see No. 1459).
DE	From (used to precede the call sign of the calling station).
DF	Your bearing at hours was degrees, in the doubtful sector of this station, with a possible error of degrees.
DO	Bearing doubtful. Ask for another bearing later (or at hours).
Е	East (Cardinal).
ER	Here
ETA	Estimated time of arrival.
ITP	The punctuation counts.
к	Invitation to transmit.
КМН	Kilometers per hour.
KTS	Nautical miles per hour (Knots).
MIN	Minute (or Minutes).

Abbreviation or Signal	Definition]
мрн	Statute miles per hour.	
MSG	Prefix indicating a message to or from the master of a ship concerning its operation or navigation.	
N	North (Cardinal).	
NIL	I have nothing to send to you.	
NO	No (Negative).	
NW	Now.	
OK	We agree (or It is correct).	
OL /	Ocean Letter.	
Р	Prefix indicating a private radiotelegram.	
PBL	Preamble (used after a question mark to request a repetition).	ľ
R	Received.	
REF	Reference to (or Refer to).	
RPT	Repeat (or I repeat) (or Repeat).	
RQ	Indication of a request.	
S	South (Cardinal).	
SIG	Signature (used after a question mark to request a repetition).	
SLT	Radiomaritime Letter.	
sos	Distress Signal (to be sent as one signal).	
SS	Indicator preceding the name of a ship station.	
SVC	Prefix indicating a service telegram.	
SYS	Refer to your service telegram.	
TFC	Traffic.	
TR	Used by a land station to request the position and next port of call of a mobile station (see No. 1083); used also as a prefix to the reply.	
TTT	This group when sent three times constitutes the safety signal (see No. 1488).	
TU	Thank you.	
ТХТ	Text (used after a question mark to request a repetition).	
VA	End of work (to be sent as one signal).	
w	West (Cardinal).	
WA	Word after (used after a question mark to request a repetition).	
WB	Word before (used after a question mark to request a repetition).	
WD	Word(s) or Group(s).	
XQ	Prefix used to indicate an operating communication in the fixed service.	ŀ.
XXX	This group when sent three times constitutes the urgency signal (see No. 1477).	
YES	Yes (Affirmative).	

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APPENDIX 13

Miscellaneous abbreviations and signals to be used in radiotelegraphy communications

(See Article 29)

Replace the heading by :

DNK/38(13)

Miscellaneous abbreviations and signals

to be used in radiocommunications

(See Articles 29 and 33)

Reasons :

MOD

To permit the use of the abbreviations in Appendix 13, Sections I and II also in radiotelephony. It is not found necessary to select certain abbreviations for the purpose of establishing an independent telephone code, since almost all abbreviations may be possible in telephony when language difficulties arise. To provide better coverage of the conditions of service in radiotelephony, the introduction of a number of new abbreviations has been proposed both in Section I (Q code) and in Section II (Miscellaneous abbreviations and signals). The abbreviations to be used in Section I may presumably be taken from the QV series.

On condition that all mobile stations are provided with the International Code of Signals, there will be no need for abbreviations in respect of safety of navigation, meteorology, and search and rescue in the International Radio Regulations. However, as long as the question as to the mobile stations in which the International Code of Signals is to be found has not been definitely settled, it may be appropriate to retain such abbreviations as relate to conditions of navigation and search and rescue of a more general nature, which will be applicable in rescue operations in which in particular small mobile stations are involved, and which in many cases will be sufficient. Hence it follows that the abbreviations : QSH, QTI, QTJ, QTK, QTL, QTM, QUB, QUH, QUI, QUJ, QUK, QUL, QUQ and QUU may presumably be deleted. It is not believed that the use of abbreviations having one meaning in the Radio Regulations and another in the International Code of Signals will cause any confusion. This point of view also applies to the abbreviations of Section II (Miscellaneous Abbreviations and Signals).

Recommendation No. 22 may now be considered superfluous.

Ref.

Section I. Q Code

Introduction.

Replace the sub-paragraph 5 by :

DNK/38(14)

5. Q code abbreviations are given the form of a question when followed by a question mark in radiotelegraphy and RQ (ROMEO QUEBEC) in radiotelephony. When an abbreviation is used as a question and is followed by additional or complementary information, the question mark (or RQ) should follow this information.

Reasons :

MOD

To permit the use of the abbreviations in radiotelephony when language difficulties arise.

DNK/38(15)

Abbreviations available for all services

List of abbreviations in alphabetical order

Question

Answer or advice

Replace : (or ... (call MOD OŚN sign)) by : (or ...

Replace : (or ... (call sign)) by : (or ... (name (name and/or call sign)). and/or call sign)).

Reasons :

To make the signal usable in radiotelephony in case of language difficulties.

MOD	QSX Repla	ce : ((call signs(s))	Replac	ce:(call	sign(s))
	p h :	(name(by : (s) ar	nd/or	call
	call	(sign((s)).	signs((s)).			

Reasons :

Same as for QSN. Replace : (call sign) Replace : (call sign) by; QTE MOD (name and/or call sign). by : (name and/or call sign).

Reasons :

Same as for QSN.

<u>Ref.</u> Question Answer or advice DNK/38(15) MOD QUA Read : Read : I have received the follow-(contd.) Have you news of ... (name and/or call ing from ... (name and/or call sign). sign)? Reasons : Same as for QSN. To widen the scope of the signal. MOD QUC Replace : (call sign) Replace : (call sign) by: by : (name and/or call (name and/or call sign). sign). Reasons : Same as for QSN. MOD Replace : (call sign Replace : (call sign) by : QUD (name and/or call sign). of the mobile station) by : (name and/or call sign). Reasons : Same as for QSN. Replace : (call sign of MOD OUF Replace : (call sign of mobile station) mobile station) by : by : (name and/or (name and/or call sign).

Reasons :

Same as for QSN.

call sign).

New abbreviations

ADD Q.. Can you communicate I can communicate by by radiotelegraphy radiotelegraphy (500 kc/s). (500 kc/s)?

Reasons :

To provide new signals for use in radiotelephony in case of language difficulties.

Ref.			Question	Answer or advice
DNK/38(15) (contd.)	ADD	Q	Can you communicate by radiotelephony (2182 kc/s)?	I can communicate by radio- telephony (2182 kc/s).

Reasons :

To provide a signal for use in radiotelephony in case of language difficulties.

ADD	ଢ ୍ .	Can you communicate by	I can communicate by	
		radiotelephony (channel	radiotelephony (channel 16-	-
		16-156.80 Mc/s)?	156.80 Mc/s).	

Reasons :

To provide a signal for use in radiotelephony in case of language difficulties.

ADD	Q	Can you com	municate in	I can commu	nicate in
	,	0. Dutch	5. Italian	.0. Dutch	5. Italian
		l. English	6. Japanese	l. English	6. Japanese
		2. French	7. Norwegian	2. French	7. Norwegian
•		3. German	8. Russian	3. German	8. Russian
		4. Greek	9. Spanish?	4. Greek	9. Spanish

Reasons :

To provide signals for use in radiotelephony in case of language difficulties. The figures have the same meaning as in the International Code of Signals for reasons of simplicity.

ADD Q..

The groups which follow are from the International Code of Signals.

Reasons :

To permit the use of signals from the International Code of Signals.

ADD Q.. The words which follow are in plain language.

Reasons :

To avoid confusion when using the spelling tables.

Ref.	Question <u>Answer or advice</u>
DNK/38(15) (contd.)	ADD Q Have you received the I have received the security signal sent by security signal sent by (name and/or call (name and/or call sign). sign)?
• •	Reasons :
	To provide a signal for this situation.
	ADD Q What is your ship My ship charge is fr. charge? per word/minute
· · ·	(1. for radiotelegrams (1. for radiotelegrams
:	2. for radiotelephone 2. for radiotelephone calls calls (if necessary)). (if necessary)).
	Reasons :
	To provide a signal for this situation.
· •	ADD Q What is your coast My coast station charge station charge? is fr. per word/minute
	(1. for radiotelegrams (1. for radiotelegrams
•	2. for radiotelephone 2. for radiotelephone calls calls (if necessary)). (if necessary)).
	<u>Reasons</u> :
	To provide a signal for this situation.
	ADD Q What is the land line The land line charge is charge? fr. per word/minute
	(1. for radiotelegrams (1. for radiotelegrams
	2. for radiotelephone 2. for radiotelephone calls calls (if necessary)). (if necessary)).
	Reasons :
	To provide a signal for this situation.
· · · · ·	ADD Q What is the charge for The charge for (the (the facility in facility in question)? If a charge for (the facility in facility in question)
	Reasons :
	To provide a signal for this situation.

Question

Ref.

DNK/38(15) (contd.)

ADD How many minutes are I am charging ... (minutes). Q... you charging?

Reasons :

To provide a signal for this situation in case of language difficulties.

ADD Q..

I have a radiotelephone call for ... (name of the required person on board the ship).

Answer or advice

Reasons :

To provide a signal for this situation in radiotelephony in case of language difficulties.

ADD Q.. I have an ordinary radiotelephone call for ... (telephone number or name and exact address of the subscriber); or

I have ...

- 1. an urgent radiotelephone call for ... (telephone number);
- 2. a préavis (personal) radiotelephone call for ... (telephone number) ... (name of the required person);
- 3. an avis d'appel (a messenger) radiotelephone call for ... (name and exact address of the required person) from ... (name of the caller);

DNK/38(15) (contd.)

Question

- 493 -

Answer or Advice

4. a collect radiotelephone
 call from ... (name of
 the caller) for ...
 (telephone number) ...
 (name of the required
 person in case of an
 avis d'appel (a messenger)
 radiotelephone call).

Reasons :

To provide signals for these situations in radio-telephony.

ADD Q...

- ... (telephone number) ...
- 1. does not answer
- 2. is busy. I shall call you later
- 3. is out of order.

Reasons :

To provide signals for these situations in radiotelephony in case of language difficulties.

ADD Q..

... (name of the required person) ...

- 1. is expected at ...
 (hours)
- 2. is not present. Will call as soon as possible
- 3. has gone away without leaving his new address

4. has changed his residence

5. is on holiday

6. is unknown.

<u>Reasons</u> :

To provide signals for these situations in radiotelephony in case of language difficulties.

.

DNK/38(15)

(contd.)

Question

Answer or advice

The collect radiotelephone call ...

1. has been accepted

2. has been refused.

Reasons :

ADD Q..

To provide signals for these situations in radiotelephony in case of language difficulties.

ADD	ର	Shall I	cancel?	or	Cancel.	or
		· · · ·		·	•	

Shall I cancel ... Cancel ... (telephone (telephone number of the radiotelephone call)? Cancel ... (telephone number of the radiotelephone call).

Reasons :

To provide signals for this situation in radiotelephony in case of language difficulties.

. DNK/38(16) ·

Section II. Miscellaneous abbreviations and signals

MOD

AA, AB, ADS, BN, PBL, SIG, TXT, WA and WB

Replace : (used after a question mark to request a repetition) by :

(used after a question mark in radiotelegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition.)

Reasons :

To make the signals usable in radiotelephony in case of language difficulties.

DNK/38(16) (contd.) MOD DE Replace : (used to precede the call-sign of the calling station) by :

(used to precede the call sign (or name in case of language difficulties) of the calling station).

Reasons :

To make the signal usable in radiotelephony in case of language difficulties.

Add, in alphabetical order :

ADD BT Double hyphen (separation signal) (-...- to be sent as one signal).

Reasons :

To provide a separation signal to be used by the transmission of radiotelegrams and in other cases in radiotelephony in case of language difficulties.

ADD KA Starting signal (-.-.- to be sent as one signal).

Reasons :

To provide a starting signal to be used by the transmission of radiotelegrams in radiotelephony in case of language difficulties. - 496 -

APPENDIX 13

<u>Ref</u>.

G/59(10)

Amend heading to read :

MOD <u>Miscellaneous Abbreviations and Signals to be</u> used in Radio Communications

(See Articles 29 and 33)

Reasons :

To extend the use of these abbreviations to radiotelephony. Consequential upon new 1216A.

SECTION I

Q Code

Introduction

NOC 1 to 7

ADD 8.

The Q code abbreviations marked "*" are not used in the maritime mobile service.

Reasons :

To denote those abbreviations which are no longer used in the maritime mobile service.

· · ·	Abbreviations available for all services
	List A. Proposed additions, amendments and deletions.
	Add "*" to the following :
· .	QRE, QRF, QSE, QSN, QSU, QTK, QTL, QTM, QTN, QUG, QUI, QUJ, QUK, QUL, QUQ and QUW.

Reasons :

MOD

Consequential upon new paragraph 8 in the introduction.

MOD

QRM Insert :

Clarification.

(Maritime mobile service only)

Question :

Is my transmission being interferred with?

Answer or advice :

Your transmission is being interferred with :

- (1. Nil
 - 2. Slightly
 - 3. Moderately
 - 4. Severely
- 5. Extremely)

Reasons :

G/59(10) (contd.)

<u>Reasons</u> :

SUP

Serves no useful purpose.

MOD' QSD

QSC

SD Insert :

(maritime mobile service only)

Question :

Are my signals mutilated?

Answer or advice :

Your signals are mutilated.

Reasons :

To include defects additional to bad keying, e.g., defects in automatic transmission.

MOD QTI <u>Insert</u>:

(Maritime mobile service only)

Question :

What is your TRUE course?

Answer or advice :

My TRUE course is degrees.

Reasons :

The word "course" is more appropriate in maritime communications.

MOD QTQ <u>Question</u>:

Can you communicate with my station by means of the International Code of Signals (INTERCO)?

Answer or advice :

I am going to communicate with your station by means of the International Code of Signals (INTERCO).

Reasons :

Consequential upon the introduction of the abbreviation INTERCO in Section II.

G/59(10) (contd.)

Insert :

(Maritime mobile service only)

Question :

Will you send your call-sign for seconds?

Answer or advice :

I will send my call-sign for seconds,

Reasons :

MOD

QTS

To permit transmission of the call-sign for purposes other than for tuning or frequency measurement.

MOD	QUN	Question :
		When directed to all stations : Will vessels in my immediate vicinity or
- · ·		or (in the vicinity of latitude longitude) or
	`	(in the vicinity of)
		Please indicate their position, TRUE course and speed?
		2. When directed to a single station.
		Please indicate your position TRUE course and speed.
		Answer or advice :
		My position, TRUE course and speed are
Reasons :		
	For clari	fication.
ADD .	QUZ	Question :
		What is your MAGNETIC course?

Answer or advice :

My MAGNETIC course is degrees.

Reasons :

To differentiate between True and Magnetic course.

<u></u>			
G/59(10) (contd.)	ADD	QVA	Question :
、			What is the commercial value of my signals?
			Answer or advice :
			Your signals are :
			 Uncommercial Commercial with difficulty Commercial)
	ADD	Q VB	Question :
			How many tapes have you to send?
			Answer or advice :
			I have tapes to send.
	ADD	QVC	Question :
			Shall I send a phasing signal for
			Answer or advice :
		•	Send a phasing signal for seconds.
	ADD	QVD	Question :
			Shall I send my tape?
		•	Answer or advice :
			Send your tape.
	<u>Reasons</u> :		
		To meet :	requirements of new services.
			$\underline{\text{List B}}$. Proposed additions, amendments and deletions.
	MOD		Add "*" to the following :
			QTN, QSN, QSU, QRE, QRF, QTK, QTL, QTM, QTN, QUG, QUJ, QUK, QUL, QSE, QUI, QUQ and QUW.
	Reasons :		
		Consequen	tial upon new paragraph 8 in the Introduction.

Quality of signals

Question :

What is the commercial value of my signals?

Answer or advice :

Your signals are :

(1. Uncommercial

2. Commercial with difficulty

3. Commercial)

Reasons :

To meet requirements of new services.

Keying

MOD

Insert :

(Maritime mobile service only)

Question :

Are my signals mutilated?

Answer or advice :

Your signals are mutilated.

Reasons :

To include defects additional to bad keying, e.g., defects in automatic transmission.

Interference

MOD QRM

Insert :

(Maritime mobile service only)

Question :

Is my transmission being interferred with?

Answer or advice :

Your transmission is being interferred with :

- (1. Nil
 - 2. Slightly
 - 3. Moderately
- 4. Severely
- 5. Extremely)

Reasons :

Ref.

G/59(10) (contd.)

ADD

QVA

QSD

G/59(10) MOD QTS (contd.)

Adjustment of frequency

Insert :

(Maritime mobile service only)

Question :

Will you send your call-sign for

Answer or advice :

I will send my call-sign for seconds

Reasons :

To permit transmission of the call-sign for purposes other than tuning or frequency adjustment.

ADD QVC Question:

Shall I send a phasing signal for seconds?

Answer or advice :

Send a phasing signal for seconds.

Reasons :

To meet requirements of new services.

Establishing communication

SUP QSC

Reasons :

Serves no useful purpose.

MOD

QTQ Question :

Can you communicate with my station by means of the International Code of Signals (INTERCO)?

Answer or advice :

I am going to communicate with your station by means of the International Code of Signals (INTERCO).

Reasons :

Consequential upon the introduction of the abbreviation INTERCO in Section II.

G/59(10) (contd.)

		Exchange of correspondence
ADD	QVB	Question :
		How many tapes have you to send?
		Answer or advice :
		I have tapes to send.
ADD	QVD	Question :
		Shall I send my tape?
		Answer or advice :
		Send your tape.
<u>Reasons</u> :		
•	To meet r	equirements of new services.
		Movement
MOD	QTI	Insert :
		(Maritime Mobile Service only)
		Question :
		What is your true course?
	,	Answer or advice :
	ţ	My true course is degrees.
		•

Reasons :

The word "course" is more appropriate in maritime communications.

G/59(10) (contd.) QUN

MOD

please indicate their position, TRUE course and speed?

2. When directed to a single station. Please indicate your position, TRUE course and speed.

Answer or advice :

My position, TRUE course and speed are

Reasons :

Clarification.

ADD	QUZ	Question :
- -		What is your MAGNETIC course?
		Answer or advice :
		My MAGNETIC course is degrees.

Reasons :

To differentiate between True and Magnetic course.

G/59(10) (contd.) 504

When directed to all stations : Will vessels in my immediate vicinity or (in the vicinity of latitude longitude) or (in the vicinity of)

please indicate their position, TRUE course and speed?

2. When directed to a single station : Please indicate your position, TRUE course and speed.

Answer or advice :

My position, TRUE course and speed are

<u>Reasons</u> :

MOD

QUN

For clarification.

ADD

QUZ

<u>Question</u> : What is your MAGNETIC course? <u>Answer or advice</u> :

My MAGNETIC course is degrees.

Reasons :

To differentiate between TRUE and MAGNETIC course.

SECTION II

Add "*" to the following :

MOD

DF, DO, ER, MPH and NW.

1.

<u>Ref.</u>

G/59(10) (contd.)

Reasons :

To indicate abbreviations no longer used in the Maritime Mobile Service - see Note 2.

MOD AR End of transmission.

Reasons :

To extend the use to radiotelephony - consequential upon proposed new 1216A.

MOD AS Waiting period.

Reasons :

Consequential upon new 1216A.

ADD C Affirmative - yes or "The significance of the previous group should be read in the affirmative".

Reasons :

Consequential upon its adoption in the International Code of Signals.

ADD CORRECTION Cancel my last word or group. The correct (KOR-REK-SHUN) word or group follows.

Reasons :

Consequential upon its adoption in the International Code of Signals.

MOD CQ General call to all stations (see Articles 31 and 33 (No. 1302)).

Reasons :

To extend the use to radiotelephony - consequential upon new 1216A.

SUP DDD

Reasons :

Serves no useful purpose in this section.

Ref. G/59(10) "From" (used to precede the name MOD DE (contd.) or other identification of the calling station) - see No. 1216B. Reasons : To extend the use to radiotelephony - consequential upon new 1216A and 1216B. INTERCO The code expressions in the following message ADD appear in the International Code of Signals (IN-TER-CO) (I_M,C_0) Reasons : Consequential upon adoption by I.M.C.O. in the international Code of Signals. I SPELL ADD Indicates that the following word will be spelled out. Reasons : To provide a clear indication that the next word will be spelled out in accordance with Appendix 16. ADD PDH Prefix indicating a private radiotelegram for a crew member. Reasons : In common use. SUP SOS Reasons : Serves no useful purpose in this section. SUP SS Reasons : Unnecessary.

<u>Ref.</u>

G/59(10) (contd.) TR Used by land station to request the position and next port of call of a mobile station (see Nos. 1083 and 1314); used also as a prefix to the reply.

Reasons :

MOD

To extend the use to radiotelephony - consequential upon proposed new 1216A.

SUP TTT

Reasons :

Serves no useful purpose in this section.

MOD VA End of work.

Reasons :

To extend the use to radiotelephony - consequential upon new 1216A.

ADD WX Weather report follows.

Reasons :

In common use.

SUP XXX

Reasons :

Serves no useful purpose in this section.

SUP YES

Reasons :

No longer used (replaced by C).

ADD <u>Note 1</u>: When used in radiotelegraphy a bar over the letters composing a signal denotes that the letters are to be sent as one symbol.

Reasons :

Clarification.

ADD <u>Note 2</u>: The abbreviations marked "*" are not used in the maritime mobile service.

Reasons :

To denote those abbreviations which are no longer used in the maritime mobile service.

APPENDIX 13

HOL/74(19)

Miscellaneous abbreviations and signals to be used in

radiotelegraphy and radiotelephony communications

(see Articles 29 and 33)

Section I - Q code

MOD

MOD

5. Q code abbreviations are given the form of a question when followed

a) by a question mark in the case of radiotelegraphy communications;

b) by the letter T (spoken as TANGO) in the case of radiotelephony communications.

When an abbreviation is used as a question and is followed by additional or complementary information, the question mark <u>or the letter T</u> should follow this information.

Reasons :

To use the Q code for radiotelegraphy and radiotelephony communications.

In the opinion of the Netherlands Administration the Q code and abbreviations relating to safety of navigation and search and rescue should be retained in Appendix 13. It is not mandatory to carry the International Code of Signals, whereas it is compulsory to carry the Radio Regulations on all ships fitted with radiotelegraph equipment.

Amend Appendix 13 as follows :

J/88(62)

(Heading)

MOD

MOD

Miscellaneous abbreviations and signals to be used in **radiotolography communications radiocommunications**

(see Articles 29 and 33)

J/88(63)

Section I. Q CODE

(Introduction)

3. Certain Q code abbreviations may be given as an affirmative or negative sense by sending the following signal or abbreviation respectively, immediately following the abbreviation.

a) In case of radiotelegraphy communications, "YES" or "NO".

b) In case of radiotelephony communications, "C" (pronounced as CHAR LEE or SHAR LEE) or "NO" (pronounced as NO VEM BER OSS CAH).

J/88(64)	MOD
	(Introduction) 5. Q code abbreviations are given the form of a question when followed by a question mark (in case of radiotelegraphy communications) or T (in case of radiotelephony communications, pronounced as TANG GO). When an abbreviation is used as a question and is followed by additional or complementary information, the question mark or T should follow this information.
J/88(65)	SUP (Q CODE) Suppress the following Q codes :
	QRF, QSE, QSF, QTD, QIN, QTW, QTY, QTZ, QUB, QUG, QUH, QUI, QUJ, QUK, QUL, QUN, QUO, QUP, QUQ, QUR, QUS, QUT, QUU, QUW and QUY.

J/88(66)

MOD

Abbreviation	Question	Answer or advice
ର୍ଟ୍ଟମ	Are you <u>a low traffic</u> <u>ship station?</u>	I am a low traffic ship station.
	(see Article 32, Section V)	
କ୍ୟଟକ୍ର.	Is (name of person) on board?	(name of person) is on board

J/88(67)

MOD

Put an asterisk *) against the following abbreviations or signals given in SECTION II :

AS BK BQ CFM CL COL CP DDD ADS AR \mathbf{DF} DO ER ETA TTP KMH KTS MIN MPH MSG SOS SS SIG SLT NIL NW OLΡ PBL REF VA WD SVC SYS TFC TR TTT TU TXT XQ XXX YES

ADD

Add the following abbreviations to SECTION II. MISCELLANEOUS ABBREVIATIONS AND SIGNALS :

*) AHR	I have another message to send.
**) AR	End of transmission.
<u>**) AS</u>	Waiting period.
<u>**) C</u>	<u>Yes (Affirmative).</u>
**) CORRECTION	Cancel my last word or group. The correct word or group follows; (pronounced as KOR-REK-SHUN).
*) CUL	I will see you later.
<u>*) HW</u>	How?
**) INTERCO	International Code Group(s) follow(s); (pronounced as IN-TER-CO)
<u>*) NM</u>	No more for you.
*)	Please.
**) YZ	The wordswhich follow are in plain language.
Add the following no	otes at the end of SECTION II :
Notes : *) This al	obreviation or signal is used only

 tes: *) This abbreviation or signal is used only in case of radiotelegraphy communications.
 **) This abbreviation or signal is used only in case of radiotelephony communications.

Reasons :

It is necessary to clarify what is to be used as one signal in case of radiotelegraphy communications, or the use of the same abbreviation different in meaning between the Radio Regulations and the revised International Code of Signals.

Appendix 13 of the Radio Regulations

RFA/6(6)

Title, read:

Miscellaneous Abbreviations and Signals to be used in Radiotelegraphy and Radiotelephony Communications (See Articles 29 and 33)

RFA/6(7)

Section I, number 3, read:

3. Certain Q code abbreviations may be given an affirmative or negative sense by sending, immediately following the abbreviation,

- a) YES or NO in the case of radiotelegraphy communications,
- b) the letter C (spoken as CHARLIE) or NO (spoken as NOVEMBER OSCAR) in the case of radiotelephony communications.

RFA/6(8)Section I, number 5:

> Q code abbreviations are given the form of a question 5. when followed:

- a) by a question mark in the case of radiotelegraphy communications,
- b) by the letter T (spoken as TANGO) in the case of radiotelephone communications.

When an abbreviation is used as a question and is followed by additional or complementary information, the question mark or the letter T, as the case may be, should follow this information.

RFA/6(9)

A. List of Abbreviations in Alphabetical Order

(changes underlined)

•	Abbre- viation	Question	Answer or Advice
	qra	What is the name of your vessel (or station)?	The name of my <u>vessel (or</u> station) is
	QRC	By what private enterprise (or State Administration) are the accounts for the charges for your station settled?	The accounts for charges of my station are settled by the private enterprise (or State Administration).
	QRG	Will you tell me my exact frequency (or that of)?	Your exact frequency (or that of) is kHz (or MHz).
	QRH	Does my frequency vary?	Your frequency varies.
	QRI	How is the tone of my transmission?	The tone of ycur transmission is l good 2. variable 3. bad
	QRJ	How many radiotelephone calls have you to book?	I have radiotelephone calls to book.
	QRK	What is the intelligibility of my transmission (or that of (name or call sign))?	The intelligibility of your transmission (or that of (name or call sign)) is 1. bad 2. poor
· ·			3. fair 4. good 5. excellent
	QRL	Are you busy?	I am busy (or I am busy with (name or call sign)). Please do not interfere.
		Are you being interfered with ?	I am being interfered with (1. nil 2. slightly 3. moderately 4. severely 5. extremely).

MOD

MOD

MOD

• · · ·			
Ref.	Abbre- viation	Question	Answer or Advice
• •			
RFA/6(9) (cont.)	QRN	Are you troubled by static?	I am troubled by static (1. nil
• • •			 2. slightly 3. moderately 4. severely 5. extremely).
	QRO	Shall I increase transmitter power?	Increase transmitter power.
• •	QRP	Shall I decrease transmitter power?	Decrease transmitter power.
MOD	QRQ	Shall I send <u>(or speak)</u> faster?	Send <u>(or speak)</u> faster (words per minute).
	QRR	Are you ready for automatic operation?	I am ready for automatic operation. Send at words per minute.
MOD	QRS 、	Shall I send <u>(or speak)</u> more slowly?	Send (or speak) more slowly.
MOD	QRT	Shall I stop transmission?	Stop transmission.
	QRU	Have you anything for me?	I have nothing for you.
	QRV	Are you ready?	I am ready.
	QRW	Shall I inform (name or call sign) that you are calling him on kHz (or MHz)?	Please inform (name or call sign) that I am calling him on kHz (or MHz).
	QRX.	When will you call me again?	I will call you again at hours (on kHz (or MHz)).
	QRY	What is my turn? (Relates to communication)	Your turn in Number (or according to any other indication).
			(Relates to communication)
1.	QRZ	Who is calling me?	You are called by (name or call sign) (on kHz (or MHz)).

.

 (cont.) MOD QSA What is the strength of my signals (or those of (name or call sign))? (cont.) (name or call sign))? (conthose of (name or call sign)? (conthose of (name or	
 j. fairly good 4. good 5. very good QSB Are my signals fading? Your signals are fading. QSD Is my keying defective? Your keying is defective. QSG Shall I send telegrams at a time MOD QSH Are you able to home on your I am able to home on my 	<u>L1</u>
QSDIs my keying defective?Your keying is defective.QSCShall I send telegramsSend telegrams at a timeMODQSHAre you able to home on yourI am able to home on my	
QSGShall I send telegramsSend telegrams at a timeMODQSHAre you able to home on yourI am able to home on my	
At a time? MOD QSH Are you able to home on your I am able to home on my	
	•
(on (name or call sign))	• .
QSJ What is the charge to be The charge to be collected to collected to including your internal charge? The charge is francs.	2
QSK Can you hear me between I can hear you between my your signals and if so can I signals; break in on my break in on your trans- transmission. mission?	
QSL Can you acknowledge receipt? I am acknowledging receipt.	
MODQSOCan you communicate with (name or call sign)?I can communicate withI can communicate with (name or call sign)?I can communicate with	

· · ·

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·.			
Ref.	Abbre- viation	Question	Answer or Advice
RFA/6(9) (cont.) MOD	QSP	Will you relay to <u>(name or</u> call sign) free of charge?	I will relay to (name or call sign) free of charge.
	QSR	Shall I repeat the call on the calling frequency?	Repeat your call on the calling frequency; did not hear you (or have interference).
MOD	QSS	What working frequency will you use?	I will use the working fre- quency kHz (or MHz) (when using Al on high fre- quencies, normally only the last three figures of the frequency need be given).
	QSU	Shall I send or reply on this frequency (or on kHz (or MHz)); (with emissions of class)?	Send or reply on this frequency (or on kHz (or MHz)); (with emissions of class).
MOD	QSV	Shall I send a series of V's <u>(or words) for adjust-</u> ment on this frequency (or kHz (or MHz))?	Send a series of V's <u>(or words)</u> for adjustment on this fre- quency (or kHz (or MHz)).
	QSW	Will you send on this fre- quency (or kHz (or MHz)) (with emissions of class)?	I am going to send on this frequency (or kHz (or MHz)) (with emissions of class).
MOD	QSX	Will you listen to <u>(name</u> or call sign) on kHz (or MHz)?	I am listening to <u>(name or</u> <u>call sign)</u> on kHz (or MHz).
	QSY	Shall I change to trans- mission on another frequency?	Change to transmission on another frequency (or kHz (or MHz)).
MOD	QSZ	Shall I send (or speak) each word or group more than once?	Send (or speak) each word or group twice (or times).
MOD	QTA	Shall I cancel telegram number (or message or signal)?	Cancel telegram number <u>(or</u> message or signal).

<u>Ref.</u> RFA/6(9)	Abbre- viation	Question	Answer or Advice
(cont.)	QTB	Do you agree with my counting of words?	I do not agree with your counting of words; I will re- peat the first letter or digit of each word or group.
MOD	QTC	How many telegrams have you to send?	I have telegrams for you (or for <u>(name or call</u> <u>sign)</u>).
MOD	QTE	What is my TRUE bearing from you? or	Your TRUE bearing from is degrees at hours. or
		What is my TRUE bearing from (<u>name or</u> call sign)?	Your TRUE bearing from (<u>name or</u> call sign) was degrees at hours. or
		What is the TRUE bearing of (<u>name or call sign</u>) from (<u>name or call</u> sign)?	The TRUE bearing of (name or call sign) from (name or call sign) was degrees at hours.
MOD	QTF	Will you give me my position according to the bearings taken by the direction- finding stations which you control?	Your position according to the bearings taken by the direc- tion-finding stations which I control was latitude longitude (or other indication of position), class at hours.
MOD	QTC	Will you send two dashes (or carrier frequency) of ten seconds each followed by your call sign (or name) (repeated times) (on kHz (or	I am going to send two dashes (or carrier frequency) of ten seconds each followed by my call sign (or name) (repeated times) (on kHz (or
	· · ·	MHz)?	MHz)).
		or Will you request (name or call sign) to send two dashes (or carrier frequency) of ten seconds each followed by his call sign (or name) (re- peated times) on kHz (or MHz)?	or I have requested (name or call sign) to send two dashes (or carrier frequency) of ten seconds each followed by his call sign (or name) (repeated times) on kHz (or MHz).

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<u>Ref.</u> RFA/6(9)	<u>Abbre-</u> viation	Question	Answer or Advice
(cont.)	QTH	What is your position in lati- tude and longitude (or according to any other indication)?	My position is latitude longitude (or according to any other indication).
	QTO	Have you left dock (or port)?	I have left dock (or port). or
		Are you airborne?	I am airborne.
	QTP	Are you going to enter dock (or port)?	I am going to enter dock (or port).
		or Are you going to alight (or land)?	or I am going to alight (or land).
MOD	ହ୮ହ	Can you communicate with <u>me</u> by means of the Internation- al Code of Signals?	I am going to communicate with you by means of the Inter- national Code of Signals.
	QTR	What is the correct time?	The correct time is hours.
MOD	QTS	Will you send your call sign (or name) for tuning purposes or so that your frequency can be measured now (or at hours) on kHz (or MHz)?	I will send my call sign <u>(or</u> <u>name)</u> for tuning purposes or so that my frequency may be measured now (or at hours) on kHz (or MHz).
	QTU	What are the hours during which your station is open?	My station is open from to hours.
MOD	QTV	Shall I stand guard for you on <u> kHz</u> (or MHz) (from to hours)?	Stand guard for me on <u> kHz</u> (or MHz) (from to hours).
	QTX	Will you keep your station open for further communica- tion with me until further notice (or until hours)?	I will keep my station open for further communication with you until further notice (or until hours).
MOD	QUA	Have you news of (<u>name</u> or call sign)?	Here is news of (<u>name or</u> call sign).
	*		

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Ref.	Abbre- viation	Question	Answer or Advice
RFA/6(9) (cont.) MOD	QUD	Have you received the urgency signal sent by (<u>name or</u> call sign)?	I have received the urgency signal sent by (name or call sign) at hours.
	QUE	Can you use telephony in (language), with inter- preter if necessary; if so, on what frequencies?	I can use telephony in (language) on kHz (or MHz).
MOD	QUF	Have you received the dis- tress signal sent by (<u>name or</u> call sign)?	I have received the distress signal sent by (<u>name or</u> call sign) at hours.
	QUM	May I resume normal working?	Normal working may be resumed.

RFA/6(10)

B. List of Signals according to the nature

of Questions, Answer or Advice

Abbreviation Question

Answer or Advice

Name

QRA What is the name of your The name of my vessel (or station)? The name of my vessel (or station) is ...

Position

QTHWhat is your position in
latitude and longitude (or
according to any other
indication)?My position is ... latitude
... longitude (or according to
any other indication).

Ref.	Abbre- viation	Question	Answer or Advice
RFA/6(10) (cont.)	Constanting of the second s	Quality of	f Signals
	QRI	How is the tone of my trans- mission?	The tone of your transmission is 1. good 2. variable 3. bad.
	QRK	What is the intelligibility of my transmission (or that of (name or call sign))?	The intelligibility of your transmission (or that of (name or call sign)) is 1. bad 2. poor 3. fair 4. good 5. excellent.
		Strength of	of Signals
	QRO	Shall I increase transmitter power?	Increase transmitter power.
	QRP	Shall I decrease transmitter power?	Decrease transmitter power.
	QSA	What is the strength of my signals (or those of (name or call sign))?	The strength of your signals (or those of (name or call sign)) is 1. scarcely perceptible 2. weak
	· .		 Weak fairly good good very good
	QSB	Are my signals fading?	Your signals are fading.
		Keyj	ing
	QRQ	Shall I send (or speak) faster?	Send(or speak) faster (words per minute).
	QRR	Are you ready for automatic operation?	I am ready for automatic oper- ation. Send at words per minute.
	•		111-1-1-1 V V V

,

Ref.	Abbre-	Question	Answer or Advice
RFA/6(10)	viation		
(cont.)	QRS	Shall I send (or speak) more slowly?	Send (or speak) more slowly.
·.			
	QSD	Is my keying defective?	Your keying is defective.
	•	Interfe	erence
	QRM	Are you being interfered with?	I am being interfered with (1. nil
		W1 011;	2. slightly
			 moderately severely
			5. extremely).
	QRN	Are you troubled by static?	I am troubled by static (1. nil
			2. slightly
			3. moderately 4. severely
			5. extremely).
×	· · ·	Adjustment c	of frequency
•	QRG	Will you tell me my exact frequency (or that of)?	Your exact frequency (or that of) is kHz (or MHz).
•	QRH	Does my frequency vary?	Your frequency varies.
	QTS	Will you send your call sign (or name) for tuning pur- poses or so that your fre- quency can be measured now	I will send my call sign (or name) for tuning purposes or so that my frequency may be measured now (or at hours)
		(or at hours) on kHz (or MHz)?	on kHz (or MHz).

Choice of frequency and/or

class of emission

What working frequency will QSS . you use?

I will use the working frequency ... kHz (or ... MHz) (using Al on high frequencies normally only the last three figures of the frequency need be given).

<u>Ref.</u> RFA/6(10) (cont.)	Abbre- viation	Question	Answer or Advice
	QSU	Shall I send or reply on this frequency (or on kHz (or MHz)); (with emissions of class)?	Send or reply on this frequency (or on kHz (or MHz)); (with emissions of class).
	QSV	Shall I send a series of V's (or words) for adjustment on this frequency (or kHz (or MHz))?	Send a series of V's (or words) for adjustment on this fre- quency (or kHz (or MHz)).
	QSW	Will you send on this fre- quency (or kHz (or MHz)) (with emissions of class)?	I am going to send on this frequency (or kHz (or MHz)) (with emissions of class).
	QSX	Will you listen to (name or call sign) on kHz (or MHz)?	I am listening to (name or call sign) on kHz (or MHz).
		Change of	frequency
	QSY	Shall I change to trans- mission on another frequency?	Change to transmission on another frequency (or knz (or MHz)).
	·	Establishing o	communication
	QRL	Are you busy?	I am busy (or I am busy with (name or call sign)). Please do not interfere.
	QRV	Are you ready?	I am ready.
	QRX	When will you call me again?	I will call you again at hours (on kHz (or MHz)).
	QRY	What is my turn? (Relates to communication)	Your turn is Number (or according to any other indica- tion). (Relates to communication).

Ref.	Abbre- viation	Question	Answer or Advice
RFA/6(10)	1201011		
(cont.)	QRZ	Who is calling me?	You are called by (name or call sign) (on kHz (or MHz)).
			••••
	QSR	Shall I repeat the call on the calling frequency?	Repeat your call on the calling frequency; did not hear you (or have interference).
	QTQ	Can you communicate with me by means of the International Code of Signals?	I am going to communicate with you by means of the Inter- national Code of Signals.
	QUE	Can you use telephony in (language), with interpreter if necessary; if so, on what frequencies?	I can use telephony in (language) on kHz (or MHz).
		Ti	me
	QTR -	What is the correct time?	The correct time is hours.
	QTU	What are the hours during which your station is open?	My station is open from to hours.
		<u>Cha</u> :	rges
	QRC	By what private enterprise (or State Administration) are the accounts for the charges for your station settled?	The accounts for charges of my station are settled by the private enterprise (or State Administration).
	QSJ	What is the charge to be collected to including your internal charge?	The charge to be collected to including my internal charge is francs.
		Tra	nsit
	QFW	Shall I inform (name or call sign) that you are call- ing him on kHz (or MHz)?	Please inform (name or call sign) that I am calling him on kHz (or MHz).
	יע אי	call sign) that you are call- ing him on kHz (or	call sign) that I am callin

Abbre- viation	Question	Answer or Advice
ଦୃହତ	Can you communicate with' (name or call sign)?	I can communicate with (name or call sign).
QSP	Will you relay to (name or call sign) free of charge?	I will relay to (name or call sign) free of charge.

QUA Have you news of ... (name Here is news of ... (name or call sign)? call sign).

Exchange of correspondence

- QRJHow many radiotelephone callsI have ... radiotelephone callshave you to book?to book.QRUHave you anything for me?I have nothing for you.
- QSG Shall I send ... telegrams at a time?

Ref.

RFA/6(10) (cont.)

- QSK Can you hear me between your signals and if so can I break in on your transmission?
- QSL Can you acknowledge receipt?
- QSZ Shall I send (or speak) each word or group more than once?
- QTA Shall I cancel telegram number ... (or message or signal)?
- QTB Do you agree with my I de counting of words? court

I can hear you between my signals; break in on my transmission.

Send ... telegrams at a time.

I am acknowledging receipt.

Send (or speak) each word or group twice (or ... times).

Cancel telegram number ... (or message or signal).

I do not agree with your counting of words; I will repeat the first letter or digit of each word or group.

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<u>Ref.</u> RFA/6(10)	Abbre- viation	Question	Answer or Advice
(cont.)	QTC	How many telegrams have you to send?	I have telegrams for you (or for (name or call sign)).
	QTV	Shall I stand guard for you on kHz (or MHz) (from to hours)?	Stand guard for me on kHz (or MHz) (from to hours).
	QTX	Will you keep your station open for further communi- cation with me until further notice (or until hours)?	I will keep my station open for further communication with you until further notice (or until hours).
		Movem	ent
	QSH	Are you able to home on your direction-finding equipment?	I am able to home on my direction-finding equipment (on (name or call sign)).
	QTO	Have you left dock (or port)?	I have left dock (or port).
	· .	or Are you airborne?	I am airborne.
	QTP	Are you going to enter dock (or port)?	I am going to enter dock (or port).
		or Are you going to alight (or land)?	or I am going to alight (or land).

<u>Ref.</u> RFA/6(10)	Abbre- viation	Question	Answer or Advice
(cont.)		Radio direc	tion-finding
	QTE	What is my TRUE bearing from you? What is my TRUE bearing from (name or call sign)?	Your TRUE bearing from me is degrees at hours. or Your TRUE bearing from (name or call sign) was degrees at hours.
		or What is the TRUE bearing of (name or call sign) from (name or call sign)?	or The TRUE bearing of (name or call sign) from (name or call sign) was degrees at hours.
	QTF	Will you give me my position according to the bearings taken by the direction- finding stations which you	Your position according to the bearings taken by the direction- finding stations which I con- trol was latitude long-
		control?	itude (or other indication of position), class at hours.
	QTG	Will you send two dashes (or carrier frequenc?) of ten seconds each followed by your call sign (or name) (repeated times) on kHz (or	I am going to send two dashes (or carrier frequency) of ten seconds each followed by my call sign (or name) (repeated times)(on kHz (or
		MHz)? or Will you request (name or call sign) to send two dashes (or carrier frequency) of ten seconds each followed by his	MHz)). I have requested (name or call sign) to send two dashes (or carrier frequency) of ten
		Suspensio	n of work
	QRT	Shall I stop transmission?	Stop transmission.

- 525 -

1 500 May I resume normal working? Normal working may be resumed.

QUM

Question

Answer or Advice

Urgency

QUD

Have you received the urgency signal sent by ... (name or call sign)? I have received the urgency signal sent by ... (name or call sign) at ... hours.

Distress

QUF	Have you received the dis-	I have received the distress
	tress signal sent by	signal sent by (name or
	(name or call sign)?	call sign) at hours.

QUM May I resume normal working? Normal working may be resumed.

Reasons for proposals Nos. 6 to 10:

Recommendation No. 22 of the Radio Regulations provides that in the case of language difficulties in radiotelephony a code shall be used for the exchange of communications which should cover at least :

- a) distress, urgency, safety of navigation, search and rescue, and
- b) establishment of communications.

As regards a) the Recommendation provides for code groups which are taken from the International Code of Signals (parts 2 to 4 of Annex 2 of Recommendation No. 22).

As regards b) Q code abbreviations according to Appendix 13 of the Radio Regulations are provided for.

The signal groups relating to distress, urgency, safety of navigation, and search and rescue fall within the competence of I.M.C.O.

The groups required for the exchange of radiocommunications fall within the competence of the I.T.U. Recommendation No. 22 of the Radio Regulations indicates that in the opinion of I.T.U. uniform Q code abbreviations shall be used for the exchange of radiocommunications.

Ref.

RFA/6(10) (cont.)

Abbreviation

The aforementioned proposals :

1) amend and complete the Q groups listed in Appendix 13 in such a way that they can be used for radiotelegraphy and radiotelephony communications;

2) delete the Q groups which can be dispensed with for the exchange of radiocommunications. Of the 40 deleted Q groups*) 5 are not needed and the meaning of the remaining 35 groups relates to navigation, search and rescue.

In the opinion of the German Administration only such Q groups should be included in the Radio Regulations which are needed for the exchange of radiocommunications. The International Code of Signals revised by I.M.C.O. should continue to exist as a separate book and serve as a reference for the ship's command. The code groups for the exchange of communications contained in Section VII "Communications" of the revised International Code of Signals should only be used for flash lamp and flag signalling. In the opinion of the German Administration these code groups for the exchange of communications should not be used in radiotelephony the more so that about 25 important groups required for this purpose are not available. It is the opinion of the German Administration that the following arguments can be advanced against the use of the code groups for the exchange of communications listed in the International Code of Signals in radiotelephony communications :

1) The radiotelephonist is compelled to use both signal code groups and Q groups if there are no corresponding signal code groups for normal communications.

2) In some cases radiotelegraphists of coast and ship stations have to use signal code groups for communications with radiotelephonists although the usual Q groups with the same meaning are available.

3) Thus, two different service aids have to be used in the aforementioned cases. This is not expedient for the exchange of communications, and furthermore uniformity in radio communications is not preserved.

Uniform abbreviations for the exchange of communications in the radiotelegraph and radiotelephone services simplify radio operations.

*) See under Final Remarks, page 20, Doc. No. 6.

Ref.

RFA/6(10) (cont.) APPENDIX 13

Ref.

RFA/92(18)

ADD

New abbreviations

Abbreviation	Question	Answer or Advice
ADD Q	Listen on 2182 kc/s for signals of emergency position-indicating radio beacons.	
ADD Q	Have you received the signal of an emergency position-indicating radio beacon?	I have received the signal of an emergency position- indicating radio beacon.

Reasons :

To provide signals for use in radiotelegraphy and in case of language difficulties in radiotelephony (see proposal ADD 1476 I (RFA/94(27), Document No. 94).

Proposal

USSR/52(8)

USA/21(42)

It is proposed that the proposals prepared by I.M.C.O. for the amendment of the code of signals be adopted.

APPENDIX 13

			SECTION I	
			Q CODE	
SUP	QRD QRE QSF QSF QSF QSH QSQ QTD QTE QTF	QTH QTJ QTJ QTK QTL QTM QTM QTW QTY QTZ	QUA QUB QUG QUH QUI QUI QUL QUL QUL QUN QUO	QUP QUQ QUR QUS QUT QUU QUU QUW QUY

SECTION II

Miscellaneous Abbreviations and signals

SUP	DF DO	ER ETA		N NW	W
	E	KMH	MPH	S	

Reasons :

To amend pertinent portions of the Radio Regulations which are in conflict with the revised International Code of Signals adopted by the Inter-Governmental Maritime Consultative Organization (I.M.C.O.).

Proposals relating to

Appendix 15

Table of Frequencies to be used by Ship Stations in the Bands between 4 and 27.5 Mc/s Allocated Exclusively to the Maritime Mobile Service

APPENDIX 15

Table of Frequencies to be used by Ship Stations in the Bands between 4 and 27.5 Mc/s Allocated Exclusively to the Maritime Mobile Service

(See Articles 32, 35 and Appendix 17)

1. This Appendix contains two Sections, A and B.

For the use of frequencies in the Band 4 to 27.5 Mc/s for radiotelegraphy (Section A) see also Nos. 1174 to 1201 of Article 32.

For the use of frequencies in the Band 4 to 23 Mc/s for radiotelephony (Section B) see also Nos. 1352 to 1358 of Article 35.

- 2. In the table in Section A:
 - a) the assignable frequencies in a given band for each usage are:
 - indicated by the lowest and highest frequency, in heavy type, assigned in that band;
 - regularly spaced, the number of assignable frequencies and the spacing in kc/s being indicated in italics;
 - b) the vertical arrows indicate the harmonic relationship between the frequencies assigned in the different bands.
- 3. In the table in Section B:

the working frequencies (carrier waves) in a given band are:

- indicated by the lowest and highest frequency, in heavy type, in that band;
- regularly spaced, where there are more than two; the number of frequencies and the spacing in kc/s being indicated in italics.

SECTION A

Frequencies Assignable to Ship Radiotelegraph Stations using the Maritime Mobile Service Bands between 4 and 27.5 Mc/s

BAND	LIM		k c/s	· 		LIMITS
(Mc/s)		Assignable Frequencies Wide-Band Telegraphy, Facsimile and Special Transmission Systems	Assignable Working Frequencies for High Traffic Ships	Calling Frequencies	Assignable Working Frequencies for Low Traffic Ships GROUP A GROUP B	
4	4 140	4 1424 158	4 1614 176	4 178 4 186	4 188 4 212 + 4 212-5 4 236-5	4 238
		5 Frequencies spaced 4	11 Frequencies spaced 1.5	9 Frequencies spaced 1	98 Frequencies spaced 0.5	
6	6 211	6 2136 237 7 Frequencies spaced 4	6 241.5 6 264	6 2676 279 9 Frequencies spaced 1.5	6 282 6 318 6 318 75 6 354 75 98 Frequencies spaced 0.75	.6 357
8	8 280	8 282	8 3228 352 11 Frequencies spaced 3	8 356*8 372 9 Frequencies spaced 2	8 376	8 476
12	12 421	12 42412 468 12 Frequencies spaced 4	12 474 12 478-5 12 483	12 53412 558 9 Frequencies spaced 3	12 56412 636 12 637.512 709.5 98 Frequencies spaced 1.5	5 12 714
16	16 562	16 564 16 620 15 Frequencies spaced 4	16 626 16 632 16 638 16 644	16 712	16 752 16 848 16 850 16 946 98 Frequencies spaced 2	16 952
22	22 100	22 10222 146 <i>12 Frequencies</i> <i>spaced 4</i>	22 151 22 15722 217 11 Frequencies spaced 6	22 22522 265 9 Frequencies spaced 5	22 272-522 332-5 22 33522 395 50 Frequencies spaced 2-5	5 22 400
			Assignable Working	z Frequencies to Ships of all Ca	itegories	
25	25 070		25 075	1] Frequencies spaced 3	25 105	25 110

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* For particular conditions concerning the use of 8364 kc/s see No. 1179.

APP 15

APP 15

SECTION B

Carrier Frequencies in kc/s for Ship Radiotelephone Stations using the Maritime Mobile Service Bands between 4 and 23 Mc/s

	LIMITS		kc/s	·		LIMITS
BAND (Mc/s)		Radiotelephone (Double sideband) Calling frequencies	Upper sic	Radiotelephon (Single sideban leband carrier	d)	
4	4 133		4 133	and	4 136-5	4 140
6	6 200		6 200•5 -	3 Frequencies spaced 3.5	6 207.5	6 211
8	8 265	8 269	8 273	and	8 276-5	8 280
12	12 400	12 403.5	12 407	4 Frequencie spaced 3.5		12 421
16	16 530	16 533-5	16 537	7 Frequencie. spaced 3.5	16 558 s	16 562
22	22 070	22 074	22 078	6 Frequencie: spaced 3.5	22 095·5	22 100

* For particular conditions concerning the use of 6204 kc/s see No. 1353.

CAN/107 (35)

Ref.

Proposal

In each of the 4, 6, 8, 12, 16 and 22 Mc/s bands allocated to the Maritime Mobile Service, a channel 500 to 750 cycles/second in width in the "Assignable Working Frequencies for High Traffic Ships" be designated for selective calling of ships on an international basis.

Reasons

To provide spectrum space for the development and use of an international system of selective calling in each of the 4 - 22 Mc/s bands available to the Maritime Mobile Service.

This proposal supersedes Canadian comments on Agenda Item 7.3 on page 2 of Document No. 45.

Considering,

a) that it would be advantageous for stations of the Maritime Mobile Service to have the benefit of the use of selective calling devices in the HF bands for the purpose of establishing initial contact;

b) that congestion exists in the Maritime Mobile bands and it is therefore desirable that only the minimum amount of spectrum be utilized for selective calling;

c) that there is no suitable selective calling system available for operation in the HF bands on an international basis;

d) that the C.C.I.R. is continuing its study of selective calling systems for future operational requirements of the Maritime Mobile Service;

e) that this conference will be the only opportunity for some time to designate frequencies for this purpose;

- provisions should be made for a selective calling channel of the order of 500 to 750 cycles/second in width in each of the HF Maritime Mobile bands. Ref.

CAN/41(15)

MOD

APPENDIX 15

Section B

Carrier (<u>Reference</u>) Frequencies in kc/s for Ship Radiotelephone Stations using the Maritime

Mobile Service Bands between 4 and 23 Mc/s.

	limits	kc	/s	limits
Band (Mc/s)		Radiotelephone (Double sideband) Calling frequenciés	Radiotelephone (Single sideband) Upper sideband Carrier <u>reference</u> fre- quencies	
4	4133		4133	4136.5
6	6200		6200-6204*) 2 frequencies spaced 3.5	6207.5
8	8265	8269	8273	8276.5
12	12400	12403.5	12407- <u>12414</u> <u>3</u> frequencies spaced 3. 5	<u>12417.5</u>
16	16530	16533.5	165537 <u>16554.5</u> <u>6</u> frequencies spaced 3.5	<u>16558.5</u>
22	22070	22074	22078 <u>22092</u> <u>5</u> frequencies spaced 3.5	<u>22096.5</u>

*)For particular conditions concerning the use of 6204 kc/s see No. 1353.

Note - The single sideband frequencies above may be assigned to coast stations in accordance with provisions contained in Article 7

<u>Reasons</u>:Consequential to Canadian proposal for Agenda Item 2.4 to allocate frequencies for the Ocean Data Service.

DNK/NOR/115(1)

Proposal concerning the use of calling frequencies

in the HF maritime mobile radiotelephony service

1. Background

The Ordinary Administrative Radio Conference, Geneva, 1959, decided to introduce calling frequencies for ships in the HF maritime mobile radiotelephony service, and channels (double sideband) were allocated in the 8, 12, 16 and 22 Mc/s bands (ref. Appendix 15, Section B, to the Radio Regulations). Before the 1959 conference initial contacts between ships and coast stations had to be made by means of HF radiotelegraphy or direct on the HF telephony working frequencies. The heavy increase in traffic on the working frequencies and the fact that some ships were fitted only with radiotelephony on HF had made the usefulness of separate calling frequencies obvious.

2. Experience since 1959

During the years since 1959 the experience at coast stations shows that calling frequencies are of great value in a smooth handling of the radiotelephone traffic. However, it has caused difficulties that the coast stations had to use their normal working frequencies in replying to calls from ships. Therefore, the introduction of two-way calling channels appears to be essential.

During the years with low solar activity, experience has shown that calling frequencies are required also in the 4 and possibly in the 6 Mc/s bands.

3. Conclusion

On the basis of the foregoing the Administrations of Denmark and Norway propose to the W.A.R.C. that calling frequencies in the HF maritime mobile radiotelephony service be maintained.

It is considered necessary that calling frequencies be allocated in all the 6 frequency bands and made available for coast stations as well as ship stations. The actual selection of such frequencies, appropriate bandwidth, classes of emission to be used, and whether single frequency operation or a pair of associated frequencies for ship and coast stations should be used in each band, will have to be decided upon when the Conference revises Appendices 15, 17 and 25 to the Radio Regulations.

In considering this matter the possible introduction of a selective calling system in the maritime mobile HF service should be taken into account.

F/10(60)

Appendix 15

Appendix 15 - In the title, read as follows :

..... by ship radiotelegraph stations (see Article 32) ...

Replace paragraph 1 by the following :

1. For the use of frequencies in bands between 4 and 27.5 Mc/s for radiotelegraphy, see also numbers 1174 to 1201 of Article 32.

Replace paragraph 2 by the following :

2. In the table appearing in the present appendix :

a) the assignable frequencies (rest unchanged).....

Delete paragraph 3

Replace the table in Appendix 15A by the table for Appendix 15 attached hereto

Delete the table in Appendix 15B

Reasons :

Appendix 15B is deleted as a consequence of proposals F/8(5) and F/8(8) relative to Nos. 447 and 450. Appendix 15A is replaced by the new Appendix 15 as a consequence of proposed amendments to Nos. 452 and 453 (proposals F/8(10) and (11) - Document No. 8). See also the proposals made under Item 7.1 of the agenda (Document No. 14) as regards working frequencies to be assigned to high-traffic ships for data transmission and teleprinter links.

'/14(18?) <u>Appendix 15A</u>

This question is solved by Proposal F/10(60) to replace the table in Appendix 15A by the new table in Appendix 15 (see Item 3 of the agenda, Document No. 10).

<u>Reasons</u> :

To permit sharing of the working frequency bands assigned to high traffic ships, in order to separate data and teleprinter transmissions from manual telegraph transmissions.

Frequency separations may be the subject of a subsequent proposal.

See Proposal F/8(11) relating to No. 453 (Item 1 of the agenda, Document No. 8).

Reasons :

Results from the proposal to amend Appendix 15.

Ref.

Appendix 15

Document No. 10-E Page 3

Frequencies assignable to ship radiotelegraph stations using the

		Li	mits	maritime mo	bile service bands	between 4 and 27.5 1	MHz	Limits
			· · · · · · · · · · · · · · · · · · ·		kHz			· [
Band	MHz		Assignable fre- quencies - Wide- band telegraphy, facsimile and spe- cial transmission systems	for High- Teleprinters	rking Frequencies Fraffic Ships Manual telegraphy	Calling frequencies	Assignable Working Frequencies for Low-Traffic Ships GROUP A GROUP B	
	4 4	140	4 42 4 58 5 frequencies spaced 4	Limits 4160	Limits 4177	4178 4186 9 frequencies spaced 1	41884208,5 + 420942 84 frequencies spaced 0.5	29,5 4 23I
	6 6	211	6213 6237 7 frequencies spaced 4	6240	6265,5	6267 6279 9 frequencies spaced 1.5	6282 6212,75 6213,5 634 84 frequencies spaced 0.75	14 _{,2} 6346
	8 8	280	82828318 10 frequencies spaced 4	8320	8 354	8356 8372 9 frequencies spaced 2	83768417 841884 84 frequencies spaced 1	59 8462
	2 12	2421	12424 12468 12 frequencies spaced 4	12471	12531	2534 2558 9 frequencies ↓ spaced 3	1256412625,5 12627126 84 frequencies spaced 1.5	88,5 12693
	16 16	562	16564 16620 15 frequencies spaced 4	16622	16708	16712 16744 9 frequencies spaced 4	1675216834 16836169 84 frequencies spaced 2	918 16924
	22 2	2100	22:02 22:146 12 frequencies spaced 4	22148	22220	2222522265 9 frequencies spaced 5	22272,522317,5 2232022 38 frequencies spaced 2.5	365 22370
				Assi	gnable working frequ	encies to ships of	all categories	
:	25 2	5 070		25 075	· .	quencies spaced 3		5 25 110

* For particular conditions concerning the use of 8,364 kHz, see No. 1179.

- 537

<u>Ref</u>.

F/10(60)

APPENDIX 15

MOD Table of frequencies to be used by Ship Radiotelegraph

Stations in the bands between 4 and 27.5 Mc/s allocated exclusively to the Maritime Mobile Service

(See Article 32)

MOD

1. The following table indicates the frequencies to be used by ship stations in the bands allocated to the Maritime Mobile Radiotelegraph Service between 4 and 27.5 Mc/s - see also Nos. 1174 to 1201 of Article 32.

MOD

2. The assignable frequencies in a given band for each usage are :

indicated by the lowest and highest frequency in heavy type, assigned in that band;

regularly spaced, the number of assignable frequencies and the spacing in kc/s being indicated in italics.

The vertical arrows indicate the harmonic relationship between the frequencies assigned in the different bands.

SUP 3.

Reasons :

Consequential upon the deletion of Section B following the inclusion of Section B frequencies in the revised bands allocated to the radiotelephone service.

SUP Section A (pages 427-428), and replace by attached table.

Reasons :

Consequential upon the proposals put forward in Article 32 (G/77(40)) and Article 35 (G/77(42)).

SUP Section B (page 429)

Reasons :

Consequential upon the inclusion of Section B frequencies in the revised bands allocated to the radiotelephone service.

<u>Ref.</u> G/77(37) Frequencies assignable to SHip Radiotelegraph stations using the Maritime Mobile Service Band between 4 and 27.5 Mc/s

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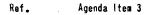
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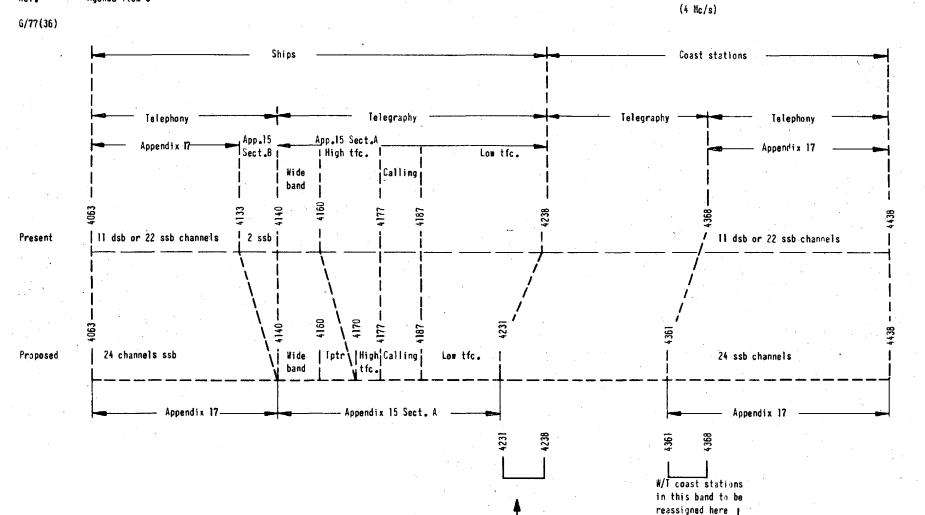
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.) Limit	\$						Limits
		T	kc/s			an anna an 11 an 11 an 12 a	-
	Assignable frequencies wideband telegraphy facsimile&special transmission systems	Assignable trequencies direct printing telegraphy systems	Assignable working frequencies for high traffic ships	Calling frequencies	<u></u>		
♥							-
4140	4142 4158 5 Frequencies spaced 4	4160.254169.75 20 Frequencies snaced 0.5	41714176.5 12 Frequencies spaced 0.5	41784186 17 Frequencies spaced 0.5			4231
6211	6213 6237 7 frequencies spaced 4	6240.256249.75 20 Frequencies spaced 0.5	62526256.5 6 Frequencies spaced 0.75 12 Frequencies paced 0.75	6267 6279 17 Frequencies	84 Freque	ncies	6346.
8280	8282 8318 10 Frequencies spaced 4	8320.258329.75 20 Frequencies spaced 0.5	83328353 10 Frequencies 12 Frequencies spaced 1.0 spaced 1.0	8356 8372 17 Frequencies spaced 1	1 I · · ·		8462
12421	1242412468 12 Frequencies spaced 4	12471.2512490.75 40 Frequencies spaced 0.5	12495	12534 12558 17 Frequencies spaced 1.5			12693
16562	1656416620 15 Frequencies spaced 4	16622.2516641.75 40 Frequencies spaced 0.5	166461668416706 19 Frequencies 12 Frequencies spaced 2 spaced 2	16712			16924
22100	2213222146 12 Frequencies spaced 4	22149.25 22167.75 40 Frequencies spaced 0.5	22172.522220 . 20 Frequencies spaced 2.5	22225 22265 17 Frequencies spaced 2.5			22370
		· · ·					-
			Assignable work	ing frequencies to ships of	all categories	·	
25070	· · · · · · · · · · · · · · · · · · ·					25105	25110
	 ✓ 4140 6211 8280 12421 16562 22100 	 Limits Assignable frequencies wideband telegraphy facsimile & special transmission systems 4140 4142 4158 5 Frequencies spaced 4 6211 6213 - 6237 7 Frequencies spaced 4 8280 8282 8318 10 Frequencies spaced 4 8280 12424 - 12468 12 Frequencies spaced 4 12421 12424 - 12468 12 Frequencies spaced 4 16562 16564 - 16620 15 Frequencies spaced 4 22100 22132 - 22146 12 Frequencies spaced 4 	Assignable frequencies wideband telegraphy facsinile.8 special transmission systems Assignable frequencies direct printing telegraphy systems 4140 41424158 5 Frequencies spaced 4 4150.254169.75 20 Frequencies spaced 0.5 6211 62136237 7 Frequencies spaced 4 6240.256249.75 20 Frequencies spaced 0.5 6211 62136237 7 Frequencies spaced 4 6240.256249.75 20 Frequencies spaced 0.5 8280 82828318 10 Frequencies spaced 4 8320.258329.75 20 Frequencies spaced 0.5 12421 1242412468 12 Frequencies spaced 4 12471.2512490.75 40 Frequencies spaced 0.5 16562 1656416620 15 Frequencies spaced 4 16622.2516641.75 40 Frequencies spaced 0.5 1210 2213222146 12 Frequencies spaced 4 22149.2522167.75 40 Frequencies spaced 0.5	1tc/sAssignable frequencies a deband telegraphy transmission systemsAssignable frequencies direct printing telegraphy systems414041424158 transmission systems4150.254169.75 20 Frequencies spaced 0.541714176.5 spaced 0.5621162136237 transmission spaced 46240.256249.75 20 Frequencies spaced 0.562526256.5 spaced 0.56256.75 spaced 0.75621162136237 transmission spaced 48320.258329.75 spaced 0.58332	1) Lists kc/s Assignable frequencies uisband telegraphy facsinile Lispecial transmission systems Assignable frequencies direct printing telegraphy systems Assignable vorking frequencies for high traific ships Calling frequencies 4140 41424158 5 Frequencies spaced 4 4150.254159.75 20 Frequencies spaced 0.5 41714176.5 12 Frequencies spaced 0.5 41784176.5 12 Frequencies spaced 0.5 4178	$ \frac{1}{12} $	$ \frac{1}{12} $

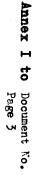
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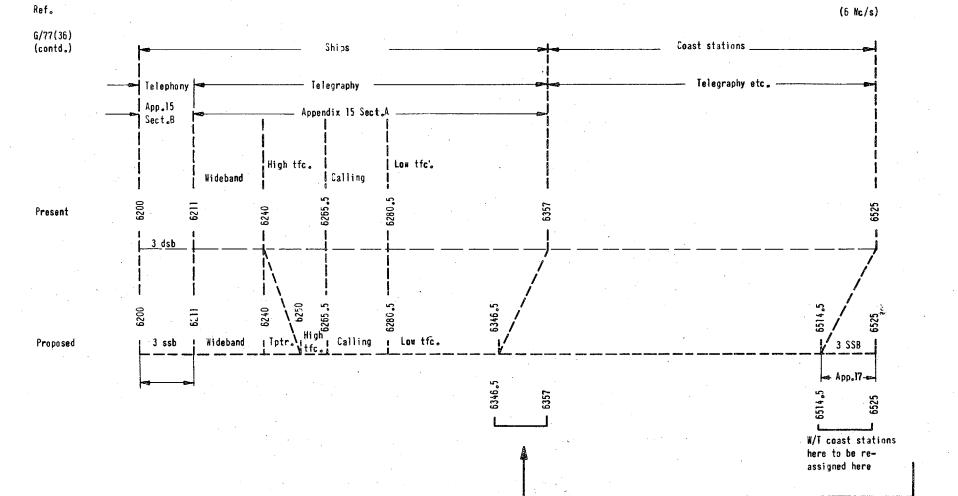




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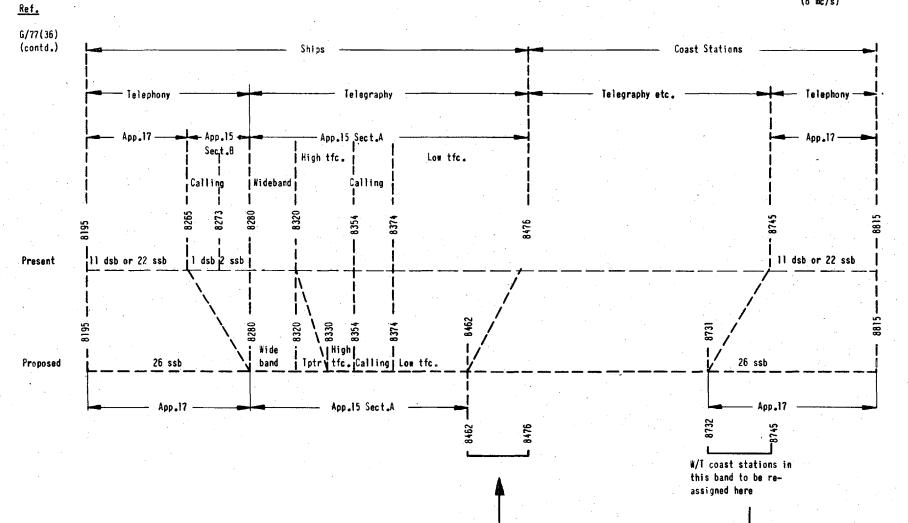
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Annex Page

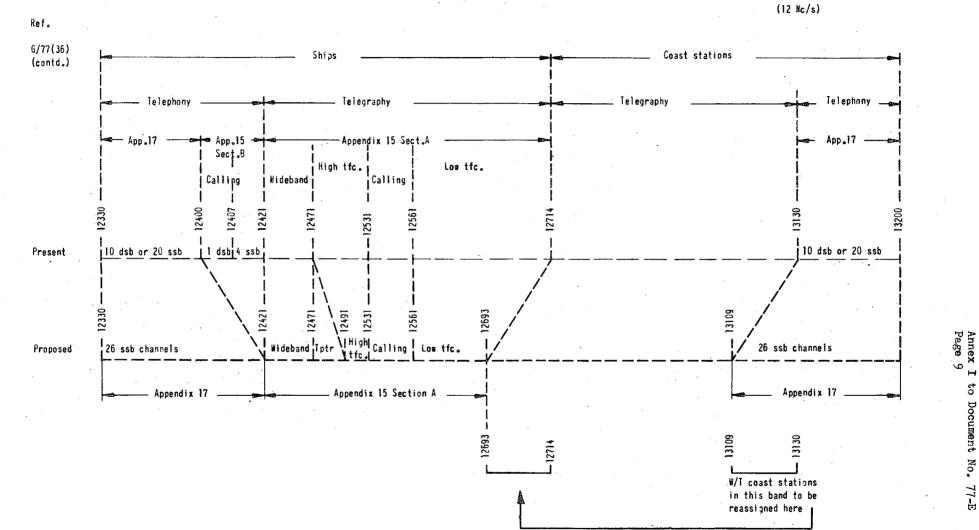
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(8 Mc/s)

Annex I to Document No. Page 7

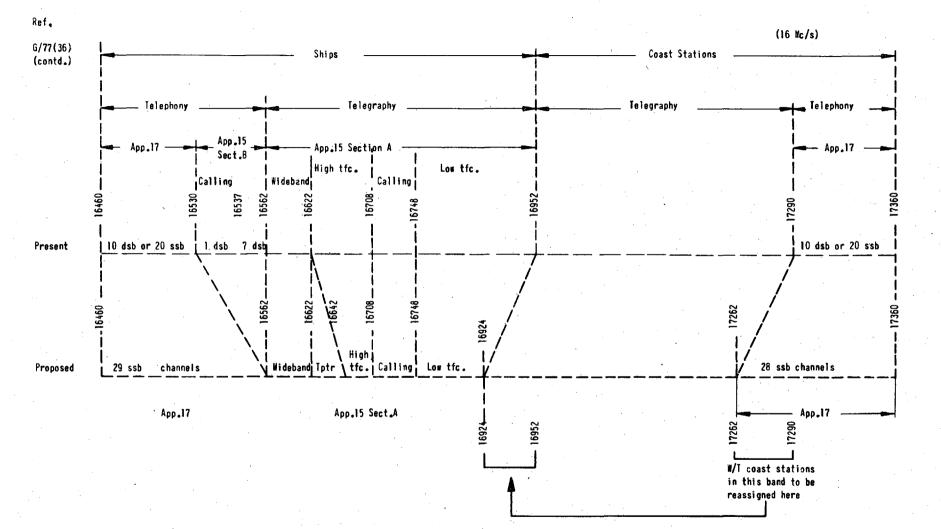
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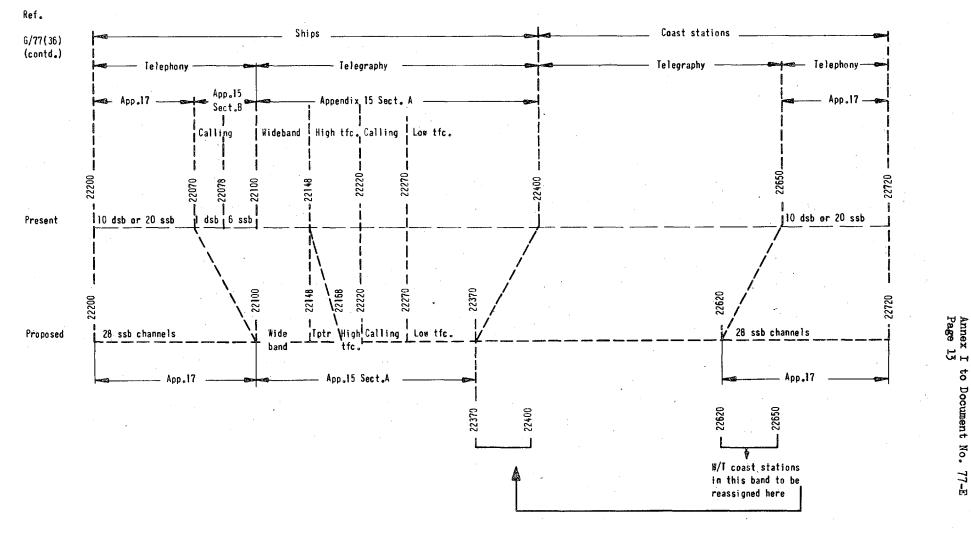


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(22 Mc/s)



545

Ref.

Agenda Item 2.1 :

Frequency bands for coast and ship radiotelephone stations

in the 6 Mc/s band

HOL/71(30)

Proposal

Amend Appendices 15 and 17 to provide a number of frequencies for coast and ship radiotelephone stations in the 6 Mc/s band.

See proposals relating to Agenda Item 3, Nos. 447, 448 and 449 (HOL/72(9), Document No. 72).

Reasons :

To meet the increasing requirements of the maritime mobile radiotelephone service.

Agenda Item 2.2:

Frequencies for intership radiotelephone traffic

HOL/71(31)

Proposal

The working frequencies listed in Appendix 15, Section B (revised), may be used for intership radiotelephone traffic.

See proposals relating to Agenda Item 3, Nos. 449 (HOL/72(9)) and 1357 (HOL/72(11), Document No. 72).

Reasons :

In accordance with No. 1255, the ship-shore working frequencies listed in Appendix 17 may be used for intership radiotelephone communications.

This provision has proved to be very unsatisfactory, due to interference caused to the public correspondence service. To meet the requirements for intership radiotelephony in the HF maritime mobile bands, the present provision under No. 1357 should be retained.

APPENDIX 15

Section A

		•		SECI	C10N A -			
0L/72	(12)	MOD			Radiotelegraph Stations usi			
	Lim	its	Ma		nds between 4 and 27.5 Mc/s		Li	mits
_		·		kc	c/s	an na sana an	an an an ann an an an an an an an an an	70
Band Mc/s)		Assignable frequencies wide-band telegraphy facsimile and special	Assignable frequencies teleprinter and data transmission	Assignable working frequencies for high traffic ships	Calling frequencies	Assignable workin for low traf	•	
<u> </u>		transmission systems				Group A	Group B	
4	4144	4146 4162 5 frequencies spaced 4	41664169.75	41714176 11 frequencies spaced 0.5	4178 4186 17 frequencies spaced 0.5	41884208.5 * 84 freq space	- i -	423
6	6215	6217	6246.756254.625	6256.56264 11 frequencies spaced 0.75	6267 6279 17 frequencies spaced 0.75	62826312.75 84 frequest spaced		634
8	8288	82908326 10 frequencies spaced 4	83298339.5	83428352 11 frequencies spaced 1	8356 8372 17 frequencies spaced 1	83768417 84 freq space		840
12	12434	1243612480 12 frequencies spaced 4	12484.512509.25	1251312528 11 frequencies spaced 1.5	1253412558 17 frequencies spaced 1.5	1256412625.5 84 freq space	Jencies	1269
16	16578	16580 16636 15 frequencies spaced 4	1664016679	1668416704 11 frequencies spaced 2	16712 16744 17 frequencies spaced 2	1675216834 84 frequ space		1692
22	22100	2210222146 12 frequencies spaced 4	2215022189	2219222217 11 frequencies spaced 2.5	2222522265 17 frequencies spaced 2.5	22272.522322.5 42 freq space	iencies	2237
		,		Assignable working fre	equencies to ships of all c	ategories		
25	25 070		25075			• • • • • • • • • • • • • • • • • • • •	25 105	25 11
				13 fre	equencies spaced 2.5			

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Document No. 72-E Page 13

* For particular conditions concerning the use of 8364 kc/s see No. 1179.

<u>Ref.</u>

APPENDIX 15

Section B

<u>Ref</u>.

HOL/72(12) (contd.) MOD

Carrier frequencies in kc/s for Ship Radiotelephone stations using the Maritime Mobile Service 8ands between 4 and 23 Mc/s

	Limits	kc/	s	Limits
Band Mc/s		Radiotelephone single sideband working frequencies*	Radiotelephone single sideband calling frequencies	
4	4140		4140.5	4144
6	6211	6211.5		6215
			······································	
8	8280	828 1	8284.5	8288
12	12421	12422 and 12425.5	12429	12434
16	16558	1655916569.5 4 frequencies spaced 3.5	16573	16578
22	22092	22092.5	22096	22100

 Frequencies in this category may be assigned also to coast stations in accordance with the provisions of No. 1357. I/32(13)

a)

To insert in an appropriate Section of Appendix 15 the channelling of frequency bands for oceanographic communications transmission (see Proposal No. 1/33(15) Document No. 33).

FOREWORD

I/33

Revision of Appendix 15

As a consequence of the conversion of maritime mobile service telephony to single sideband, it is deemed that Section B of Appendix 15 should no longer be maintained, since its provisions aimed to promote the use of the single sideband technique.

In view of the fact that all frequencies specified in this Section are included among those employed for telephony and telegraphy by ship stations, the frequencies may be used to allocate oceanographic communications and to extend - at the same time - the available band for ship telephony.

Of course, the extension of the ship telephony band also involves a corresponding extension of the coast stations telephony band, in order to associate a ship frequency with a coast station frequency.

This implies that the lower limit of the band utilized by coast stations for telephony be moved downwards and carved out of the band utilized by these stations for telegraphy. Furthermore, since it is not suitable to restrict the latter band, the lower limit thereof must consequently be moved downwards, thus reducing the band available for ship stations.

Accordingly, some radiotelegraph coast stations shall be otherwise allocated and new directions shall be issued so that their frequency assignments maintain the recording date in the master register.

The restricted availability of frequencies for ship telephony can be balanced by a better sharing of traffic between high traffic and low traffic bands as well as by adopting narrower channel spacing.

As regards the division of ship telegraphy bands, the Italian Administration is of the opinion that it would be more suitable to adopt the following criteria :

- keep unchanged the band for wide-band telegraphy, facsimile and special transmission systems;

Ref.

I/33 (contd.)

- sub-divide the band for high traffic ships separating the teleprinter and data transmission systems from manual ones, thus reducing the spacing between the frequencies of the latter in order to obtain the same number of frequencies in a narrower band;
- leave unchanged the bands and the spacing of calling frequencies in view of the fact that a narrower spacing would make more difficult the duty of coast station operators charged with watch in the calling bands;
- reduce the number of frequencies available to low traffic ships, as this reduction can be balanced by the better sharing of traffic due to modification of No. 1156 of the Radio Regulations (see proposal No. 1/32(11), Document No. 32).

It is not deemed advisable to establish a channelling of teleprinter and data transmission systems while waiting for the results of the C.C.I.R. studies on their technical characteristics.

Bandwidths of 3.5 kc/s are believed to be sufficient for oceanographic communications, and the spacing between the relative frequencies can be limited to 300 c/s.

I/33(15)

Modify Appendix 15 as follows :

APPENDIX 15

Table of Frequencies to be used by ship stations inthe bands between 4 and 27.5 Mc/sAllocated exclusively to the Maritime MobileService

(see Articles 32 and 35)

1. This Appendix contains two Sections, A and B. For the use of frequencies in the band between 4 and 27.5 Mc/s for radiotelegraphy (Section A), see also Nos. 1174 through 1201 of Article 32.

For the use of frequencies for ocean data transmissions (Section B), see also Article 7 No. 449 AA (Proposal No. I/33(18)).

- 2.
- In the Table in Section A :
 - a) the assignable frequencies in a given band for each usage are,
 - indicated by the lowest and the highest frequency, in heavy type, assigned in that band;
 - regularly spaced, the number of assignable frequencies and the spacing in kc/s being indicated in italics;

I/33(15) (cont.)

3.

b) the vertical arrows indicate the harmonic relationship between the frequencies assigned in the different bands.

In the Table in Section B :

The frequencies in a given band are :

- indicated by the lowest and the highest frequency, in heavy type, assigned in that band;
- regularly spaced, the number of assignable frequencies and the spacing in kc/s being indicated in italics.

SECTION A

Frequencies Assignable to Ship Radiotelegraph Stations using the

APP.15

Maritime Mobile Service Bands between 4 and 27.5 Mc/s

t 552

	LIM	ITS_	x	Кс	/s		LIM	ITS
BAND Mc/s))	Assignable Fre- quencies Wide- Band Telegraphy Facsimile and		king Frequencies raffic Ships	Calling Frequencies	Assignable Working Fre- quencies for Low Traffic Ships		
Ļ		Special Trans- mission Systems	Printer & Data	Manual		GROUP A	GROUP B	
4	4140	4142 4158 5 Frequencies spaced 4	4160 4168	4168.5 4176 11 Frequencies spaced 0.75	4178 4186 9 Frequencies spaced 1	4188-42085 84 Frequest spaced		4231
6	6211	62136237 7 Frequencies spaced 4	6240 6252	6252.75 - 6264 11 Frequencies spaced 1.125	6267 6279 9 Frequencies spaced 1.5	84 Frequ	6313.5-6344.25 aencies 42 1 0.75	6346
8	8280	82828318 10 Frequencies spaced 4	8320 8336	8337 8352 11 Frequencies spaced 1.5	83568372 9 Frequencies spaced 2	8376-8417 84 Frequest spaced	í B	8461
12	12421	12424 12468 12 Frequencies spaced 4	1247112504	12505.512528 11 Frequencies spaced 7.25	12534 12558 9 Frequencies spaced 3	12564-12625.5 84 Frequest spaced		12692
16	16562	16 564 16 620 15 Frequencies spaced 4	1662216672	16674 16704 11 Frequencies spaced 3	16712 16744 9 Frequencies spaced 4	16752-168 3 4 84 Frequ spaced	uencies	16922
22	22100	2210222146 12 Frequencies spaced 4	2214822185	22187 22217 11 Frequencies spaced 3	22.22522.265 9 Frequencies spaced 5	22272.5-223175 38 Frequessade	uencies	22368
			Assi	gnable Working Fre	quencies to Ships of	all Categorie	S	
25	25 0 70		25075		uencies spaced 2.5		25 105	25 110

*) For particular conditions concerning the use of 8364 Kc/s see No. 1179

I/33(15) (contd.)

I/33(15) (contd.) SECTION B

APP. 15

Document No. 33-E Page 9

Frequencies assignable for Ocean Data transmissions in the bands between 4 and 27.5 Mc/s

	Limits	kc/s	Limits
Band Mc/s		Assignable Frequencies	
4	4136.5	4136.9 4139 10 frequencies spaced 0.3	•6 4140
6	6207.5	6207.96210 10 frequencies spaced 0.3	•6 6211
8	8276.5	8276.9 8279 10 frequencies spaced 0.3	•6 8280
12	12417.5	12417.9	•6 12421
16	16558.5	16558.9	•6 16562
22	22096.5	22096.9	.6 22100

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J**/86(**34)

APPENDIX 15

Table of frequencies to be used by ShipRadiotelegraph Stations in the bandsbetween 4 and 27.5 Mc/sallocated exclusively to the Maritime Mobile Service

(See Articles 32, 35-and-Appendix-17)

J/86(35)

This-Appendix-contains-two-Sections,-A-and-B.

For the use of frequencies in the band 4 to 27.5 Mc/s for radiotelegraphy (Section-A) see also Nos. 1174 to 1201 of Article 32.

Por-the-use-of-frequencies-in-the-band-4-to 23-Me/s-for-radiotelephony-(Section-B)-see-also Nos.-1352-to-1358-of-Article-35.

J/86(36)

2. In the table : in-Section-A.

(the rest unchanged)

J/86(37) SUP

J/86(38)

MOD (Heading)

3.

MOD (Heading)

MOD

MOD

1.

SECTION-A

Frequencies assignable to ship radiotelegraph stations using the Maritime Mobile Service bands between 4 and 27.5 Mc/s

(the rest unchanged)

J/86(39)

Delete Section B of Appendix 15.

Reasons :

The table in Section B of Appendix 15 will be changed into the table in Section B of Appendix 17 given in Annex II, Document No. 86.

Proposal

USSR/50(6)

It is proposed that Appendix 15 be revised taking into account the higher frequency stability obtained with radio equipment, and that the spacing between radiotelegraph channels be slightly reduced (1.5 - 2 times). For the allocation of new telegraph channels, the frequency limits should be equal to 100 c/s. It is also proposed that the possibility be examined of allocating channels for radiotelephone stations of the maritime mobile service from the AF portions of the frequency bands assigned to ships for wideband telegraphy, facsimile, and special transmissions.

Ref.

USA/18

Agenda Item 3 : Revision of Appendix 15

U.S. Proposal :

- 1 : a) Revise Section A, Appendix 15, in respect of frequencies assignable to high traffic ships; and /see proposal in response to Agenda Item 7.1, (Document No. 22)7
 - b) Revise Section B, Appendix 15, by footnote, to permit coast station use of SSB ship frequencies; and <u>See</u> proposal No. USA/16(9) in response to Agenda Item 1, particularly No. 1357 MOD/
 - c) Revise Section B, Appendix 15, to accommodate the requirements of ccean data communications. /see proposal No. USA/17(17)-(24) in response to Agenda Item 2.4/
 - d) Revise Article 9, No. 488, to exempt from technical examination by the Board coast stations referred to paragraph b) above.

USA/18(26)

APPENDIX 15

MOD		Table of Frequencies to be used by
** , *		hip, <u>Ocean Data and Ocean Data Telecommand</u> ations in the Bands between 4 and 27.5 Mc/s
۲۸		ted Exclusively to the Maritime Mobile Service
AT	Toca	(See Articles 32, 35 and Appendix 17)
MOD	1.	This Appendix contains two three Sections A, and B and C.
MOG		
NOC		For the use of frequencies for radiotelegraphy (Section A) etc.
NOC		For the use of frequencies for radiotelephony
		(Section B) etc.
ADD		For the use of frequencies in the Band 4 to 27.5 Mc/s for
		radiotelegraphy (Section C) see also Nos. 1206A to 1206C
		of Article 32 (proposal No. USA/17(23),
		Document No. 23)
NOC	2.	
NOC	3.	

.

<u>Ref</u>. USA/18(26) (cont.)

ADD 4. In the table of Section C :

the assignable frequencies in a given band are :

.

- indicated by the lowest and highest frequency, in heavy type, assigned in that band;
- regularly spaced, the number of assignable frequencies and the spacing in kc/s being indicated in italics.

USA/18(26) (contd.)

SECTION A

Frequencies Assignable to Ship Radiotelegraph Stations using the Maritime Mobile Service Bands between 4 and 27,5 Mc/s

APP 15

	<u>Limits</u>		kc/s						
Band Mc/s)		Assignable frequencies wide-band telegraphy, facsimile and special transmission	-	ing frequencies for affic ships manual	Calling frequencies	Assignable worki for low tra			
Ļ	Ļ	systems	and data transmission			GROUP A	GROUP B		
4	4140	4142 4158 5 Frequencies spaced 4	41614167.75 **)	4168 .54176 11 Frequencies spaced 0.75	4178 4186 9 Frequencies spaced 1	98 Fred	4212.54236.5 juencies ed 0.5	4238	
6	6211	62136237 7 Frequencies spaced 4	6241.56251.625 **)	6252.756264 11 Frequencies spaced 1.125	6267 6279 9 Frequencies spaced 1.5	62826318 98 Fred spaced	6318.756354.75 uencies 0.75	6357	
8	8280	82828318 10 Frequencies spaced 4	83228335.5 **)	83378352 11 Frequencies spaced 1.5	*) 83568372 ↓ 9 Frequencies ↓ spaced 2 ↓	98 Fred	84258473 juencies	8476	
12	12421	12 424 12 468 12 Frequencies spaced 4	1247412503,25 **)	12505.512528 11 Frequencies spaced 2.25	12534 12558 9 Frequencies spaced 3		12637.512709.5 uencies	12714	
16	16562	16564 16620 15 Frequencies spaced 4	1662616671 **)	1667416704 11 Frequencies spaced 3	16712 16744 9 Frequencies spaced 4	98 Fred	1685016946 uencies ed 2	16952	
22	22100	2210222146 12 Frequencies spaced 4	2215122184 **)	2218722217 11 Frequencies spaced 3	2222522265 9 Frequencies spaced 5	50 Freq	2233522395 uencies d 2,5	22400	
				Assignable working	frequencies to ships of all	categories			
25	25 070		25075		Frequencies spaced 3		25 105	25 110	

*) For particular conditions concerning the use of 8364 kc/s see No. 1179.

**) The spacing between assignable frequencies is under study.

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Document No.18-E Page 3

APP 15

Page 5

USA/18(26) (contd.)

Limits Limits kc/s-(Radiotelephone (single sideband) **) upper sideband carrier Band Radiotelephone (double-sideband) calling (Mc/s) frequencies frequencies-4133 4 4133 and 4136-5 4140 4136.5 6 6200 6200.5 6207-5 6211 and 6204 *) 6207.5 2 3 Frequencies spaced 3.5 8 8265 8269 8273 8276-5 8280 8266-----8273 8276.5 3 frequencies spaced 3.5. 12400 12414 12407-----12 12400 12403-5 12421 12417.5 5 4 Frequencies spaced 3.5 16530 16554.5 16530 16533-5 16537---16558 16562 16 16558.5 8 7 Frequencies spaced 3.5 22070 22091 22 22070 22074 22078-----22005-5 22100 22096.5 7 6 Frequencies spaced 3.5

Carrier Frequencies in kc/s for Ship Radiotelephone Stations using the Maritime Mobile Service Bands between 4 and 23 Mc/s

SECTION B

- 559 -

*) For particular conditions concerning the use of 6204 kc/s see No. 1353.

**) <u>Frequencies in this category may be assigned also to coast stations in accordance</u> <u>with the provisions of No. 1357</u> (proposal No. USA/16(9))

SECTION C

APP 15

Frequencies assignable to Ocean Data and Ocean Data <u>Telecommand Stations using the Maritime Mobile</u> Service Bands between 4 and 27.5 Mc/s

	Limits	kc/s	Limits
Band Mc/s		Assignable frequencies*)	\downarrow
4	4136.5	4136.9 4139.6 10 frequencies spaced 0.3	4140
6	6207.5	6207.9 6210.6 10 frequencies spaced 0.3	6211
8	8276.5	8276.9	8280
12	12417.5	12417.9	12421
16	16558.5	16558.916561.6 10 frequencies spaced 0.3	16562
22	22096.5	22096.922099.6 10 frequencies spaced 0.3	22100

*) For use of other frequencies within these band limits see No. 1206C (Proposal No. USA/17(23)).

Ref.

USA/18(26)

ADD

(cont.)

Proposals relating to Appendix 16

· .

Phonetic Alphabet and Figure Code

APPENDIX 16

Phonetic Alphabet and Figure Code

(See Article 33)

1.	When it is necessary to spell out call signs, service abbreviations	
and wo	rds, the following table shall be used:	

Figure or mark to be transmitted *	Letter to be transmitted	Word to be used	Spoken as **
1	Α	Alfa	<u>AL</u> FAH
2	В	Bravo	BRAH VOH
3	C	Charlie	CHAR LEE or SHAR LEE
4	D	Delta	DELL TAH
5	Ε	Echo	ECK OH
6	F	Foxtrot	FOKS TROT
7	G	Golf	GOLF
8	н	Hotel	HOH <u>TELL</u>
9	I	India	IN DEE AH
0	1	Juliett	JEW LEE ETT
Comma	К	Kilo	KEY LOH
Fraction bar	L	Lima	LEE MAH
Break signal	Μ	Mike	MIKE
Full stop (period)	N	November	NO <u>VEM</u> BER
	. 0	Oscar	OSS CAH
	Ρ	Papa	PAH <u>PAH</u>
•	Q	Quebec	KEH BECK
	R	Romeo	ROW ME OH
	S	Sierra	SEE AIR RAH
	Т	Tango	TANG GO
	U	Uniform	YOU NEE FORM or
			OO NEE FORM
	v	Victor	VIK TAH
	W	Whiskey	WISS KEY
	x	X-ray	ECKS RAY
-	Y	Yankee	YANG KEY
	Z	Zulu	<u>ZOO</u> LOO

2. However, stations of the same country may use, when communicating between themselves, any other table recognized by their administration.

^{*} Each transmission of figures or marks is preceded and followed by the words "as a number" or "as a mark" respectively, spoken twice, e.g., the number 1959 will read: "as a number, as a number Alfa, India, Echo, India, as a number, as a number".

^{**} The syllables to be emphasized are underlined.

APPENDIX 16

Phonetic alphabet and figure code

(see Article 33)

Ref.

CAN/44(23) MOD

1. When it is necessary to spell out call signs, service abbreviations and words, and in cases of language <u>difficulties</u>, the following table shall be used :

Letter to be transmitted	Word to be used	Spoken as *)
Â	Alfa	HAT JA
B	Bravo	BRAH VOH
C	Charlie	CHAR LEE or SHAR LEE
D	Delta	DELL TAH
E	Echo	ECK OH
F	Foxtrot	FORS TROT
G	Golf	GOLF
И	Hotel	HOII TELL
I.	India	IN DEE AH
J	Juliett	JEN LEE ETT
K	Kilo	KEY LOH
L	Lima	LEE MAN
Μ	Mike	MIKE
N	November	NO VEII BER
0	Oscar	OSS CAH
P	Papa	PAH PAH
Q	Quebec	KEH BECK
R	Romeo	ROW IE OH
S	Sierra	SEE AIR RAH
Τ	Tango	TANG GO
U	Uniform	YOU HEE FORM or
		OO HEE FORM
V	Victor	HAT MIV
W	Whiskey	WISS KEY
X	X-ray	ECKS RAY
Y	Yankee	YANG KEY
\mathbf{Z}	Zulu	<u>ZOO</u> LOO

*) The syllables to be emphasized are underlined.

,

CAN/44(23) NOD (cont.)

2.	W	hen	it	is	neces	sary	to	use	figu	ire s	pellin	g and	there
											table		
use	<u>ed</u>	:										,	

Figure to be transmitted	Word to be used	Spolion as *)
Q	Zero	ZE RO
1	One	WUN
2	Two	TOO
3	Three	TREE
4	Four	FOU er
5	Five	FIFE
6	Six	SIX
7	Seven	SEV en
8	Eight	AIT
9	Nine	NIN er
Decimal point	Decimal	DAY SEE MAL

3. The following figure spelling table shall be used in cases of language difficulties :

Figure to be transmitted	Nord to be used	Spoken as **)
0 1 2 3 4 5 6 7 8 9 1000	<u>Madazero</u> <u>Unaone</u> <u>Bissotwo</u> <u>Terrathree</u> <u>Kartefour</u> <u>Pantafive</u> <u>Soxisix</u> <u>Setteseven</u> <u>Oktoeight</u> <u>Novenine</u> <u>Thousand</u>	NAH DAH ZAY ROH OO NAH WUN BEES SO TOO TAY RAH TREE KAR TAY FOWER PAN TAH FIFE SOK SEE SIX SAY TAY SEVEN OK TOH AIT NO VAY NINER TOU SAND
Decimal point	Decimal	DAY SEE MAL

*) The syllables to be emphasized are underlined.

**) Each syllable should be equally emphasized.

CAN/44(23) MOD (cont.) 4. However, stations of the same country may use, when communicating between themselves, any other table recognized by their administrations.

Reasons :

To accommodate the figure spelling table contained in the revised International Code of Signals and at the same time to resolve the differences between the maritime mobile and aeronautical mobile services where figure spelling is concerned.

APPENDIX 16

DNK/38(17)

Phonetic alphabet and figure code

(See Article 33)

SUP 1. Delete first column : Figure or mark to be transmitted) and footnote*).

2. Read :

MOD

2. When it is necessary to use figure spelling, the following table shall be used :

-ROH
-ROH
)
Ċ
ER
ר ינ
EN
{

3. However, stations of the same country may, when communicating between themselves, use any other table recognized by their administration.

Note : Each syllable should be equally emphasized.

Reasons :

To introduce the new phonetic figure table proposed by I.M.C.O. It follows that Recommendation No. 30 will thereby be superfluous.

Appendix 16

F/13(79) Replace Appendix 16 by the following :

Phonetic Alphabet and Figure Code (see Article 33).

1. When it is necessary to spell out call signs, service abbreviations and words, the following table shall be used :

A. Phonetic Alphabet Code

Letter to be transmitted	<u>Word to</u> <u>be used</u>	Spoken as *)
A	Alfa	AL FAH
В	Bravo	BRA VO
C	Charlie	<u>TCHAH</u> LI or <u>CHAR</u> LI
D	Delta	DEL TAH
E	Echo	<u>ÉK</u> O
F	Foxtrot	FOX TROTT
G	Golf	GOLF
Н	Hotel	HO TELL
I	India	IN DI AH
J	Juliett	DJOU LI ETT
K	Kilo	KI LO
L	Lima	LI MAH
Μ	Mike	<u>IIA</u> IK
N	November	NO <u>VEMM</u> BER
0	Oscar	OSS KAR
P	Papa	PAH PAH
Q	Quebec	KE <u>BEK</u>
R	Romeo	RO MI O
S	Sierra	si <u>ér</u> rah
T	Tango	TANG GO
U	Uniform	YOU NI FORM or OU NI FORM
V	Victor	VIK TAR

*) The syllables to be stressed are underlined.

Rof.	Letter to be transmitted	Word to be used	Spoken as *)
F/13(79) (cont.)	W	Whiskey	<u>OUISS</u> KI
(00110.)	X	X-ray	ÉKSS RÉ
	Y	Yankee	YANG KI
	Ζ	Zoulou	ZOU LOU

B. Phonetic Figure Code

Figure to be transmitted	Word to be used	Spoken as
0	Nadazero	NAH-DAH-ZERO
l	Unaone	OO-NA-ONE
2	Bissotwo	BIS-SO-TWO
3	Terrathree	TEH-RAH-THREE
4	Kartofour	KAH-TEH-FOUR
5	Pantafive	PAN-TAH-FIVE
6	Soxisix	SO-XI-SIX
7	Setteseven	SEH-TEH-SEVEN
8	Oktocight	OK-TO-EIGHT
° 9	Novenine	NO-VEH-NINE
comma decimal	Decimal	DEH-SI-MAL

<u>Note</u>. Each syllable should be given an equal stress. The second half of each code word is the code word used by the Aeronautical Mobile Service.

2. However, stations of the same country may use, when communicating between themselves, any other table recognized by their administration.

Reasons :

To adopt the figure code appearing in the I.M.C.O. revised International Code of Signals.

*) The syllables to be stressed are underlined.

APPENDIX 16

G/59(11)	MOD	Paragraph 1 - Delete column 1.
	* .	
	SUP	Footnote "*" on page 430.

Reasons :

Covered by new paragraph 1 bis.

ADD

Paragraph 1 bis. When it is necessary to transmit figures the following table shall be used :

Figure	Code word	Pronunciation
0	NADAZERO	NAHDAHZAY-ROH
1	UNAONE	00-NAH-WUN
2	BISSOTWO	BEES-SOH-TOO
3	TERRATHREE	TAY-RAH-TREE
4	KARTEFOUR	KAR-TAY-FOWER
5	PANTAFIVE	PAN-TAH-FIVE
6	SOXISIX	SOK-SEE-SIX
7	SETTESEVEN	SAY-TAY-SEVEN
8	OKTOEIGHT	OK-TOH-AIT
9	NOVENINE	NO-VAY-NINER
Decimal point	DECIMAL	DAY-SEE-MAL
Full stop	STOP	STOP

Note : Each syllable should be equally emphasised. The second component of each code word is the code word used in the Aeronautical Mobile Service.

Reasons :

To provide an improved figure spelling table for use in radiotelephony.

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APPENDIX 16

HOL/74(22)

MOD

Phonetic alphabet and figure code

(see Article 33)

1. When it is necessary to spell out call signs, service abbreviations and words, the following table shall be used :

A. Phonetic Alphabet Code

Letter	• • • •	
to be trans- mitted	Word to be used	Spoken as *)
A	Alfa	AL FAH
В	Bravo	BRAH VOH
C	Charlie	CHAR LEE or
	· • .	SHAR LEE
D	Delta	DELL, TAH
E	Echo	ECK OH
F	Foxtrot	FOKS TROT
G	Gol f	GOLF
Н	Hotel	HOH TELL
I	India	IN DEE AH
Ĵ	Juliett	JEW LEE ETT
К	Kilo	KEY LOH
L	Lima	LEE MAH
М	Mike	MIKE
N	November	NO VEM BER
0	Oscar	OSS CAH
P	Papa	PAH PAH
Q.	Quebec	KEH BECK
R	Romeo	ROW ME OH
S	Sierra	SEE AIR RAH
T	Tango	TANG GO
U	Uniform	YOU NEE FORM or
		OO NEE FORM
v v	Victor	VIK TAH
W	Whiskey	WISS KEY
X	X-ray	ECKS RAY
¥	Yankee	YANG KEY
~ Z	Zulu	<u>Z00</u> L00

*) The syllables to be emphasized are underlined.

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Ref.

HOL/74(22) (cont.)

B. Phonetic Figure Code

Figure to be trans- mitted	Word to be used	Spoken as
0	NADAZERO	NAH-DAH-ZAY-ROH
1	UNAONE	OO-NAH-WUN
2	BISSOTWO	BEES-SOH-TOO
3	TERRATHREE	TAY-RAH-TREE
4	KARTEFOUR	KAR-TAY-FOWER
5	PANTAFIVE	PAN-TAH-FIVE
6	SOXISIX	SOK-SEE-SIX
7	SETTESEVEN	SAY-TAY-SEVEN
8	OKTOEIGHT	OK-TOH-AIT
.9	NOVENINE	NO-VAY-NINER
Decimal point	DECIMAL	DAY-SEE-MAL

<u>Note</u>: Each syllable should be equally emphasized. The second component of each code word is the code word used in the Aeronautical Mobile Service.

2. However, stations of the same country may use, when communicating between themselves, any other table recognized by their administration.

Reasons :

To use the phonetic figure table contained in the revised International Code of Signals.

APPENDIX 16

J/88(69)

Phonetic alphabet and figure code

(see Article 33)

1. When it is necessary to spell out call signs, service abbreviations and words, the following table shall be used :

to be	Letter to be ansmitted	Word to be used	Spoken as *)
Ŧ	A	Alfa	AL FAH
2	B	Bravo	BRAH VOH
3	C	Charlie	<u>CHAR</u> LEÈ or <u>SHAR</u> LEE
4	D	Delta	DELL TAH
5	E	Echo	ECK OH
́ б	F	Foxtrot	FOKS TROT
7-	G	Golf	GOLF
8	Н	Hotel	HOH TELL
9	I	India	IN DEE AH
θ	J	Juliett	JEW LEE ETT
Comme	K	Kilo	KEY LOH
Fraction bar	L	Lima	LEE MAH
Break-signal	М	Mike	MIKE
Full-stop-(period)	N	November	NO <u>VEM</u> BER
	0	Oscar	OSS CAH
	P	Papa	PAH PAH
	ର	Quebec	KEH BECK
	R	Romeo	ROW ME OH
	S	Sierra	SEE AIR RAH
	'T	Tango	TANG GO
	U	Uniform	YOU NEE FORM or OO NEE FORM
	V	Victor	<u>VIK</u> TAH
	W	Whi s key	<u>WISS</u> KEY
	х	X-ray	ECKS RAY
*) The syllabes to be emphasized are underlined.	Y	Yankee	YANG KEY
	Z	Zulu	<u>Z00</u> L00
Full stop (period)		Stop	STOP

(period)

*) Each-transmission-of-figures-or-marks-is-preceded and-followed-by-the-words-"as-a-number"-or-"as-a mark"-respectively,-speken-twice,-e.g.,-the-number 1959-will-read,-"as-a-number,-as-a-number-Alfa, India,-Echo,-India,-as-a-number,-as-a-number".

J/88(70)

ADD

2.	When	it is	nece	ssary	to	spell	out figu	res, the
following	table	sha]	l be	used	:			

Word to be used	Spoken as
NADAZERO	NAH-DAH-ZAY-ROH
UNAONE	00-NAH-WUN
BISSOTWO	BEES-SOH-TOO
TERRATHREE	TAY_RAH_TREE
KARTEFOUR	KAR-TAY-FOWER
PANTAFIVE	PAN-TAH-FIVE
SOXISIX	SOK-SEE-SIX
SETTESEVEN	SAY-TAY-SEVEN
OKTOEIGHT	OK-TOH-AIT
NOVENINE	NO-VAY-NINER
DECIMAL	DAY-SEE-MAL
	used <u>NADAZERO</u> <u>UNAONE</u> <u>BISSOTWO</u> <u>TERRATHREE</u> <u>KARTEFOUR</u> <u>PANTAFIVE</u> <u>SOXISIX</u> <u>SETTESEVEN</u> <u>OKTOEIGHT</u> <u>NOVENINE</u>

Note : Each syllable should be equally emphasized. The second component of each code word is the code word used in the Aeronautical Mobile Service.

J/88(71)

2 3. (No change in text).

Reasons :

MOD

In the conceptions that the I.T.U. bears the responsibility for the signals in the radiocommunication procedure and, on the other hand, the I.M.C.O. is responsible for the signals concerning navigation, search and rescue activities, it is necessary to secure coordination with the revised International Code of Signals prepared by the I.M.C.O.

RFA/7(16) Delete under 1 the column "Figure or mark to be transmitted" and the corresponding footnote.

RFA/7(17)

Add as new number 2 :

Figure or mark to be transmitted	Word to be used	Spoken as
0	NADAZERO	NAH-DAH-ZAY-ROH
1	UNAONE	00NAHWUN
2	BISSOTWO	BEES-SOH-TOO
3	TERRATHREE	TAY-RAH-TREE
4	KARTEFOUR	KAR-TAY-FOWER
5	PANTAFIVE	PAN-TAH-FIVE
6	SOXISIX	SOK-SEE-SIX
7	SETTESEVEN	SAY-TAY-SEVEN
8	OKTOEIGHT	OK-TOH-AIT
9	NOVENINE	NO-VAY-NINER
Decimal point	DECIMAL	DAY-SEE-MAL

The compound words should be spoken without interruption.

RFA/7(18)

Change number 2 into 3.

Reasons:

This phonetic figure table was recommended by I.M.C.O. It offers considerable advantages over the method used so far.

RFA/7(19)

Delete Recommendation No. 30 of the Radio Regulations.

Ref. USA/21(43)

- 574 -

APPENDIX 16

Phonetic Alphabet and Figure Code

(See Article 33)

MOD

1. When it is necessary to spell out.call signs, service abbreviations and words, the following letter spelling table shall be used :

				· ·	
		Figure-or-Mark-to be-tranomitted*)	Letter to be transmitted	Word to be used	Spoken as**)
		-1-	A	Alfa	AL FAH
		-2-	B	Bravo	BRAH VOH
		-3-	C	Charlie	<u>CHAR</u> LEE or <u>SHAR</u> LEE
		-4-	D	Delta	DELL TAH
		-5-	E	Echo	ECK OH
		-6-	F	Foxtrot	FOKS TROT
		-7-	G	Golf	GOLF
		-8-	Н	Hotel	HOH TELL
		-9-	Ţ	India	IN DEE AH
		-0-	J	Juliett	JEW LEE ETT
		Comma	K	Kilo	KEY LOH
		Fraetion-Bar	L	Lima	LEE MAH
		Break-Signal	M	Mike	MIKE
	· · · ·	Full-Stop-(period)	11	November	NO <u>VEM</u> BER
			0	Oscar	OSS CAH
			Р	Papa	PAH PAH
			Q	Quebec	KEH BECK
			R .	Romeo	ROW ME OH
			S	Sierra	SEE AIR RAH
			T	Tango	TANG GO
			U	Uniform	YOU NEE FORM or OO NEE FORM
+)	Each-transmission-of-figures-or-max followed-by-the-words-"as-a-number"	ska-is-proceded-and	V	Victor	VIK TAH
	ioiiolyy-opoken-twiceyergyy-the-nu las-a-numbery-as-a-number-Alfay-Ind	umber-1959-will-read	: W	Whiskey	WISS KEY
•	- 10 - 1 - Hamoofy - 18 - 1 - Hamoof - Hitay - Int Rupboyy - 18 - 1 - Rupboyy U	aray-Bondy-Indidy-00	X	X-ray	ECKS RAY
**)	The syllables to be emphasized are	underlined.	Y	Yankee	YANG KEY
			7	7	700 100

Z

Zulu

<u>ZOO</u> LOO

USA/21(43) (contd.)

ADD

2. When it is necessary to use figure spelling, the following table shall be used :

Figure to be transmitted	Code Word	1	Spoken as
<u>0</u>	NADAZIERO		NAH-DAH-ZAY-ROH
<u>1</u>	UNAÓNE	:	<u>OO-NAH-WUN</u>
2	BISSOTWO		BEES-SOH-TOO
3	TERRATHREE		TAY-RAH-TREE
4	KARTEFOUR		KAR-TAY-FOWER
<u>5</u>	PANTAFIVE		PAN-TAH-FIVE
6	SOXISIX		SOK-SEE-SIX
7	SETTESEVEN	·.	SAY-TAY-SEVEN
8	OKTOEIGHT		OK-TOH-AIT
2	NOVENINE		NO-VAY-NINER
Decimal point	DECIMAL		DAY-SEE-MAL

Note : Each syllable should be equally emphasized. The second component of each code word is the code word used in the Aeronautical Mobile Service.

MOD

2. However, stations of the same country may use, when communicating between themselves, any other table recognized by their administration.

USA/21(44)

(2) Adopt a Resolution Relating to Responsibility for International Signals.

<u>Reasons</u> :

To amend pertinent portions of the Radio Regulations which are in conflict with the revised International Code of Signals adopted by the Inter-Governmental Maritime Consultative Organization (I.M.C.O.).

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Proposals relating to Appendix 17

Duplex Channelling of the Maritime Mobile Radiotelephone Bands between 4000 and 23000 kc/s

APPENDIX 17

Duplex Channelling of the Maritime Mobile Radiotelephone Bands between 4 000 and 23 000 kc/s

(See Article 35)

1 The following Table (page 166) indicates the frequencies to be used by coast and ship stations in the bands allocated to the maritime mobile radiotelephone service between 4 000 and 23 000 kc/s.

2. One or more series of frequencies are assigned to each coast station, which uses these frequencies associated, as far as possible, in pairs; each pair comprises a transmitting and a receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, as far as possible, harmful interference between the services of different coast stations.

3. Assignments to stations utilizing single sideband or independent sideband emissions shall be considered to be in accordance with the Table if the necessary bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for double sideband emissions in accordance with the Table.

- 3.1. Stations employing double sideband emissions (A3) or two channel independent sideband emissions (A3B) should operate with assigned frequencies at the values listed in the Table.
- 3.2. Stations using single sideband single channel emissions (A3A, A3H or A3J) should operate either in the upper half or in the lower half of the channels designated by the centre frequencies in the Table.
 - 3.2.1. A station operating in the upper half of the channel should use upper sideband emissions with its carrier frequency at a value listed in the Table; its assigned frequency would then be 1 400 cycles per second higher than that listed in the Table.
 - 3.2.2. A station operating in the lower half of the channel should use upper sideband emission, its carrier frequency being the appropriate following amounts below the midband frequency of the channel as listed in the Table :

Band	Carrier frequency relative to midband frequency of channel as listed in Table
4 and 8 Mc/s	3 100 c/s
12, 16 and 22 Mc/s	3 300 c/s

The frequencies assigned to such stations should be 1 400 cycles per second higher than the value indicated above for their carrier frequencies.

4. If an administration assigns frequencies other than those indicated above, its radiotelephone service shall not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequencies assigned to them in accordance with this Appendix.

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	4 Mc/s	Band	8 Mc/s Band		12 Mc/	's Band	16 Mc/	s Band	22 Mc/s Band		
Series No.	Coast Station Frequency	Ship Station Frequency									
1	4 371-1	4 066·1	8 748-1	8 198·1	13 133.5	12 333·5	17 293.5	16 463·5	22 653.5	22 003·5	
2	4 377.4	4 072.4	8 754.4	8 204.4	13 140-5	12 340-5	17 300.5	16 470·5	22 660.5	22 010·5	
. 3	4 383.8	<i>4 078</i> ∙8	8 760.8	8 210·8	13 147.5	12 347.5	17 307.5	16 4 77·5	22 667.5	22 017 5	
4	4 390-2	4 085·2	8 767.2	8 217·2	13 154-5	12 354·5	17 314.5	16 4 84·5	2 2 674.5	22 024·5	
5	4 396-6	4 091·6	8 77 3 .6	8 223.6	13 161-5	12 361·5	17 321.5	16 491·5	22 681.5	22 031·5	
6	4 403.0	<i>4 098</i> ∙0	8 78 0 .0	<i>8 230</i> ∙0	13 168-5	12 368.5	17 328.5	16 498·5	22 688.5	22 038·5	
7	4 409.4	4 104·4	8 786-4	8 236.4	13 175.5	12 375.5	17 335-5	16 505·5	2 2 695.5	22 045·5	
8	4 415.8	<i>4 110</i> ∙8	8 792.8	8 242·8	13 18 2 .5	12 382-5	17 342.5	16 512·5	22 702.5	22 052·5	
9	4 422 2	4 1 <i>1</i> 7·2	8 799-2	8 249-2	13 189-5	12 389-5	17 349.5	16 519·5	22 709.5	22 059·5	
10	4 428.6	4 123.6	8 805-6	8 255.6	13 196-5	12 396·5	17 356-5	16 526·5	22 716 5	22 066.5	
11	4 434.9	4 129-9	8 811.9	8 261.9							

Table of Transmitting Frequencies (in kc/s)

CAN/39(2)

Duplex channelling of the Maritime Mobile Radiotelephone bands between 4000 and 23 000 kc/s.

(See Articles 7 and 35).

APPENDIX 17

NOC 1. NOC 2. NOC 3. NOC 3.1 SUP 3.2 -SUP 3.2.1 SUP 3.2.2 SUP 4.

MOD

Reasons :

The provisions proposed for deletion are contained in the Canadian proposal for revision of Article 7.

DNK/ISL/NOR/S/37(1)

Point 3 of the Agenda : Revision of Appendix 17 to the Radio Regulations

Duplex channelling of the maritime mobile radiotelephone bands between 4000 and 23000 kc/s.

In the present Appendix 17 to the Radio Regulations the Table of Transmitting Frequencies indicates the carrier frequencies for double sideband operation. Stations operating in the upper half of the channels, when using single sideband emission, are in accordance with the appendix when the carrier frequencies used are the same as those indicated for double sideband operation. When the lower half of the present double sideband channels are used for single sideband operation, carrier frequencies to be selected should, according to Appendix 17, be 3100 c/s lower than the double sideband carrier frequencies in the bands of 4 and 8 Mc/s, and 3300 c/s lower than the double sideband carrier frequencies in the bands of 12, 16 and 22 Hc/s.

The channel separation in the present DSB frequency table is in general 6.4 kc/s in the 4 and 8 Mc/s bands and 7.0 kc/s in the bands 12, 16 and 22 Mc/s (between the two lower channels and the two higher channels in the 4 and 8 Mc/s bands the separation is 6.3 kc/s).

DNK/ISL/NOR/S/37(1) (cont.)

Ref.

When the double sideband channels eventually are split and single sideband operation becomes obligatory it seems operationally and technically advantageous to have an even distribution of the channels.

It is therefore suggested that Appendix 17 to the Radio Regulations be altered in order to obtain an equal separation between the carrier frequencies of the new SSB channels.

In the 12, 16 and 22 Mc/s bands this can be obtained simply by choosing carrier frequencies for the lowerhalf of the present DSB channels 3.5 kc/s below the midband frequencies listed in the table.

In the 4 and 8 Mc/s bands an even distribution with a minimum of amendments of the present frequencies is obtained by changing the carrier frequencies of the lowest and highest DSB channels in each of the bands 100 c/s downwards and 100 c/s upwards respectively. The carrier frequencies of the new SSB channels could then be evenly distributed with a spacing of 3.2 kc/s.

In the annex a revised "Table of Transmitting Frequencies" is proposed, indicating the upper sideband carrier frequencies (A3A/A3J). As a result of the proposed adjustment the carrier frequencies of the lowest 4 and 8 Mc/s SSB channels will be situated 200 c/s outside the limits of the respective maritime mobile bands. However, taking into account that the emission on the said two <u>carrier frequencies</u> will be reduced or suppressed, it is felt that this solution should be considered.

With regard to the text of the present Appendix 17, it is proposed to maintain the two first paragraphs and delete the rest.

Annex : 1

ANNEX

<u>Ref</u>. DNK/ISL/NOR/S/37(1)

TABLE OF TRANSMITTING FREQUENCIES (IN KC/S)

(continuation)

(Single sideband) Upper sideband carrier frequencies

	4 Mc/s	s Band	8 Mc/	s Band	12 Mc	/s Band	16 Mc	s Band	22 Mc/	s Band
Series No.	Coast Station Frequency	Ship Staticn Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequen cy	Coast Station Frequency	Ship Station Frequency	Coast Station Frequ ency	Ship Station Frequency
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 15 20	4367.8 4371.0 4374.2 4377.4 4380.6 4383.8 4387.0 4390.2 4393.4 4396.6 4399.8 4403.0 4406.2 4409.4 4412.6 4415.8 4419.0 4422.2 4425.4 4428.6	4062.8 4066.0 4069.2 4072.4 4075.6 4078.8 4032.0 4035.2 4083.4 4091.6 4094.8 4098.0 4101.2 4104.4 4107.6 4110.8 4114.0 4117.2 4120.4 4123.6	8744.8 8748.0 8751.2 8754.4 8757.6 8760.8 8764.0 8767.2 8770.4 8773.6 8776.8 8776.8 8776.8 8780.0 8783.2 8786.4 8789.6 8792.8 8796.0 8799.2 8802.4 8805.6	8194.8 8198.0 3201.2 8204.4 8207.6 8210.8 8214.0 8217.2 8220.4 8223.6 8226.8 8230.0 8235.2 8236.4 8239.6 8242.8 8246.0 8249.2 8252.4 8255.6	13130.0 13133.5 13137.0 13140.5 13140.5 13144.0 13147.5 13151.0 13154.5 13161.5 13161.5 13165.0 13165.0 13165.0 13172.0 13175.5 13179.0 13182.5 13186.0 13189.5 13193.0	12330.0 12333.5 12337.0 12340.5 12344.0 12347.5 1235.0 12354.5 12358.0 12361.5 12365.0 12368.5 12372.0 12375.5 12379.0 12382.5 12386.0 12389.5 12393.0	17290.0 17293.5 17297.0 17300.5 17304.0 17307.5 17311.0 17314.5 17318.0 17321.5 17325.0 17328.5 17332.0 17335.5 17339.0 17342.5 17346.0 17349.5 17353.0	16460.0 16463.5 16467.0 16470.5 16470.5 16477.5 16481.0 16484.5 16488.0 16491.5 16498.5 16502.0 16505.5 16509.0 16512.5 16516.0 16519.5 16523.0 16526.5	22650.0 22653.0 22657.0 22660.5 22664.0 22667.5 22674.5 22678.0 22681.5 22685.0 22688.5 22692.0 22695.5 22699.0 22702.5 22706.0 22709.5 22713.0	22000.0 22003.5 22007.0 22010.5 22014.0 22017.5 22021.0 22024.5 22028.0 22031.5 22035.0 22035.0 22038.5 22042.0 22045.5 22045.5 22049.0 22052.5 22056.0 22059.5 22063.0 22066.5
21 22	4431.8 4435.0	4126.8 4130.0	8808,8 8812.0	8258.8 8262.0	13196.5	12396.5	17356.5	10,20,2	22716.5	22000.9

F/10(61)

Appendix 17

- Paragraph 1 : (unchanged)

- Paragraph 2 : (unchanged)

- Paragraph 3 : delete

- Paragraph 4 : replace this paragraph by the following text:

584 -

4. If an administration assigns frequencies other than those indicated in the table below, its radictelephone services shall not cause (rest unchanged).

- Replace the table in Appendix 17 by the attached table.

Reasons :

A consequence of the use of SSB. See also proposals F/8(5) to (8) and F/8(30) relative to Nos. 447 to 450 and 1321a (Item 1 of the agenda); Document No. 8.

The table of transmitting frequencies in Appendix 17 has been drawn up in such a way as to keep an equal distance between adjacent frequencies: 3.2 kc/s in the 4 and 8 Mc/s bands; 3.5 kc/s in the 6, 12, 16 and 22 Mc/s.

The three pairs of frequencies of the 6 Mc/s band could, for allotment purposes, form a single group of 27 pairs with the 4 Mc/s band.

Ref.

APPENDIX 17

Two-way radiotelephone channels in Maritime Mobile Service Bands

between 4,000 and 23,000 kc/s

Table of Transmitting Frequencies (kc/s)

ót	4 Mc/s		6 Mc/s		8 Mc/s		12 Mc/s		16 Mc/s		22 Mc/s	
Series No.	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship
1	4 362,65 (4 361,3)	4 064,65 (4 063,3)	6 515,85 (6 514,5)	6 201,85 (6 200,5)	8 732,65 (8 731,3)	8 196,65 (8 195,3)	13 110,65 (1 3 10 9,3)	12 331,65 (12 330,3)	17 263,65 (17 262,3)	16 461,65 (16 460,3)	22 621,65 (22 620,3)	22 001, (22 0 00,
2	4 365,85 (4 364,5)	4 067,85 (4 066,5)	6 519,35 (6 518)	6 205,35 (6 204)	8 735,85 (8 734,5)	8 199,85 (8 198,5)	13 114,15 (13 112,8)	12 335,15 (12 333,8)	(17 267,15 (17 265,8)	16 465,15 (16 463,8)	22 625,15 (22 623,8)	22 005, (22 003,
3	4 369,05 (4 367,7)	4 071,05 (4 069,7)	6 522,85 (6 521,5)	6 208,85 (6 207,5)	8 739,05 (8 737,7)	8 203,05 (8 201,7)	(13 117,65 (13 116,3)	12 338,65 (12 337,3)	17 270,65 (17 269,3)	16 468,65 (16 467,3)	22 628,65 (22 627,3)	22 008, (22 007,
4	4 372,25 (4 370,9)	4 074,25 (4 072,9)		· · ·	8 742,25 (8 740,9)	8 206,25 (8 204,9)	17 121,15 (13 119,8)	12 342,15 (12 340,8)	17 274,15 (17 272,8)	16 472,15 (16 470,8)	22 632,15 (22 630,8)	22 012, (22 010,
5	4 375,45 (4 374,1)	4 077,45 (4 076,1)			8 745,45 (8 744,1)	8 209,45 (8 208,1)	13 1 24, 65 (13 123,3)	12 345,65 (12 344,3)	17 277,65 (17 276,3)	16 475,65 (16 474,3)	22 635,65 (22 634,3)	22 015 (22 014
6	4 378,65 (4 377,3)	4 080,65 (4 079,3)			8 748,65 (8 747,3)	8 212,65 (8 211,3)	13 128,15 (13 126,8)	12 349,15 (1 2 347, 8)	17 281,15 (17 279,8)	16 479,15 (16 477,8)	22 639,15 (22 637,8)	22 019 (22 017
7	4 3 81,85 (4 380,5)	4 0 83, 85 (4 082,5)			8 751,85 (8 750,5)	8 215,85 (8 214,5)	13 131,65 (13 130,3)	12 352,65 (12 351,3)	17 284,65 (17 283,3)	16 482,65 (16 481,3)	22 642,65 (22 641,3)	22 022 (22 021
8	4 385,05 (4 383,7)	4 087,05 (4 085,7)			8 755,05 (8 753,7)	8 219,05 (8 217,7)	13 135,15 (13 133,8)	12 356,15 (12 354,8)	17 288,15 (17 286,8)	16 486,15 (16 484,8)	22 646,15 (22 644,8)	22 026 (2 2 024
9	4 388,25 (4 386,9)	4 090,25 (4 088,9)		· · · ·	8 758,25 (8 756,9)	8 2 22,25 (8 220,9)	13 138,65 (13 137,3)	12 359,65 (12 358,3)	17 291,65 (17 290,3)	16 489,65 (16 438,3)	22 649,65 (22 648,3)	22 029 (22 028
0	4 391,45 (4 390,1)	4 093,45 (4 092,1)			8 761,45 (8 760,1)	8 225,45 (8 224,1)	13 142,15 (13 140,8)	12 363,15 (12 361,8)	17 295,15 (17 293,8)	16 493,15 (16 491,8)	22 653,15 (22 651,8)	22 033 (22 031
1	4 394,65 (4 393,3)	4 096,65 (4 095,3)			8 764,65 (8 763,3)	8 228,65 (8 227,3)	13 145,65 (13 144,3)	12 366,65 (12 365,3)	17 298,65 (17 297,3)	16 496,65 (16 495,3)	22 656,65 (22 655,3)	22 036 (22 0 35
2	4 397,85 (4 396,5)	4 099,85 (4 098,5)			8 767,85 (8 766,5)	8 231,85 (8 230,5)	13 149,15 (13 147,8)	12 370,15 (12 368,8)	17 302,15 (17 300,8)	16 500,15 (16 498,8)	22 660,15 (22 658,8)	22 040 (22 038
3	4 401,05 (4 399,7)	4 103,05 (4 101,7)			8 771,05 (8 769,7)	8 235,05 (8 233,7)	13 152,65 (13 151,3)	12 373,65 (12 372,3)	17 305,65 (17 304,3)	16 503,65 (16 502,3)	22 663,65 (22 662,3)	22 043 (22 042
4	4 404,25 (4 402,9)	4 106,25 (4 104,9)			8 774,25 (8 772,9)	8 238,25 (8 236,9)	13 156,15 .13 154,8 }	12 377,15 (12 375,8)	17 309,15 (17 307,8)	16 507,15 (16 505,8)	22 667,15 (22 665,8)	22 047 (22 045
5	4 407,45 (4 406,1)	4 109, 45 (4 108,1)			8 777,45 (8 776,1)	8 241,45 (8 240,1)	13 159,65 (13 158,3)	12 380,65 (12 379,3)	17 312,65 (17 311,3)	16 510,65 (16 509,3)	22 670,65 (22 669,3)	22 050 (22 049
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Series 4 Mc/s	c/s	6 Mc/s		8 Mc/s		12 Mc/s .		16 Mc/s		22 Mc/s	
Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship
4 410,65 (4 409,3)	4 112,65 (4 111,3)			8 780,65 (8 779,3)	8 244,65 (8 243,3)	13 163,15 (13 161,8)	12 384,15 (12 382,8)	17 316,15 (17 314,8)	16 514,15 (16 512,8)	22 674,15 (22 672,8)	22 054,1 (22 052,8
4 413,85 (4 412,5)	4 115,85 (4 114,5)			8 783,85 (8 782,5)	8 247,85 (8 246,5)	13 166,65 (13 165,3)	12 387,65 (12 386,3)	17 319,65 (17 318,3)	16 517,65 (16 516,3)	22 677,65 (22 676,3)	22 057, (22 056,
4 417,05 (4 415,7)	4 119,05 (4 117,7)			8 787;05 (8 785,7)	8 251,0 5 (8 249,7)	13 170,15 (13 168,8)	12 391,15 (12 389,8)	17 333,15 (17 321,8)	16 521,15 (16 519,8)	22 681,15 (22 679,8)	22 061, (22 059,
4 420,25 (4 418,9)	4 122,25 (4 120,9)	· · ·		8 790,25 (8 788,9)	8 254,25 (8 252,9)	13 173,65 (13 172,3)	12 394,65 (12 393,3)	17 326,65 (17 325,3)	16 524,65 (16 523,3)	22 684,65 (22 683,3)	22 064, (22 063,
4 423,45 (4 422,1)	4 125,45 (4 124,1)			8 793,45 (8 792,1)	8 257,45 (8 256,1)	13 177,15 (13 175,8)	12 398,15 (12 396,8)	17 330,15 (17 328,8)	16 528,15 (16 526,8)	22 688,15 (22 686,8)	22 068, (22 066,
4 426,65 (4 425,3)	4 128,65 (4 127,3)			8 796,65 (8 795,3)	8 260,65 (8 259,3)	13 180,65 (13 179,3)	12 401,65 (12 400,3)	17 333,65 (17 332,3)	16 531,65 (16 530,3)	22 691,65 (22 690,3)	22 071, (22 070,
4 429,85 (4 428,5)	4 131,85 (4 130,5)			8 799,85 (8 798,5)	8 263,85 (8 262,5)	13 184,15 (13 182,8)	12 405,15 (12 403,8)	17 337,15 (17 335,8)	16 535,15 (16 533,8)	22 695,15 (22 693,8)	22 075, (22 073,
4 43 3, 05 (4 431,7)	4 135;05 (4 133,7)			8 803,05 (8 801,7)	8 267,05 (8 265,7)	13 187,65 (13 186,3)	12 408,65 (12 407,3)	17 340,65 (17 339,3)	16 538,65 (16 537,3)	22 698,65 (22 697,3)	22 078, (22 077,
4 436 ,25 (4 434,9)	4 138,25 (4 136,9)			8 806,25 (8 804,9)	8 270,25 (8 268,9)	13 191,15 (13 189,8)	12 412,15 (12 410,8)	17 344,15 (17 342,9)	16 542,15 (16 540,8)	22 702,15 (22 700,8)	22 082, (22 080,
1				8 809,45 (8 808,1)	8 273,45 (8 272,1)	13 194,65 (13 193,3)	12 415,65 (12 414,3)	17 347,65 (17 346,3)	16 545,65 (16 544,3)	22 705,65 (22 704,3)	22 085, (22 084,
				8 812,65 (8 811,3)	8 276,65 (8 275,3)	13 198,15 (13 196,8)	12 419,15 (12 417,8)	17 351,15 (17 349,8)	16 549,15 (16 547,8)	22 709,15 (22 707,8)	22 089, (22 087,8
								17 354,65 (17 353,3)	16 552,65 (16 551,3)	22 712,65 (22 711,3)	22 092,6 (22 091,3
								17 358,15 (17 356,8)	16 5 56, 15 (16 554 , 8)	22 716,15 (22 714,8)	22 096,1 (22 094,8
	Coast 4 410,65 (4 409,3) 4 413,85 (4 412,5) 4 413,85 (4 412,5) 4 417,05 (4 415,7) 4 420,25 (4 418,9) 4 423,45 (4 422,1) 4 426,65 (4 425,3) 4 429,85 (4 428,5) 4 433,05 (4 431,7) 4 436,25	CoastShip $4 410,65$ $(4 409,3)$ $4 112,65$ $(4 111,3)$ $4 413,85$ $(4 412,5)$ $4 115,85$ $(4 114,5)$ $4 413,85$ $(4 412,5)$ $4 115,85$ $(4 114,5)$ $4 417,05$ $(4 415,7)$ $4 119,05$ $(4 117,7)$ $4 420,25$ $(4 418,9)$ $4 122,25$ $(4 120,9)$ $4 423,45$ $(4 422,1)$ $4 125,45$ $(4 124,1)$ $4 426,65$ $(4 425,3)$ $4 128,65$ $(4 127,3)$ $4 429,85$ $(4 431,7)$ $4 135,05$ $(4 133,7)$ $4 436,25$ $4 138,25$	CoastShipCoast $4 410,65$ $(4 409,3)$ $4 112,65$ $(4 111,3)$ $4 413,85$ $(4 412,5)$ $4 115,85$ $(4 114,5)$ $4 417,05$ $(4 412,5)$ $4 115,85$ $(4 114,5)$ $4 417,05$ $(4 415,7)$ $4 119,05$ $(4 117,7)$ $4 420,25$ $(4 418,9)$ $4 122,25$ $(4 120,9)$ $4 423,45$ $(4 422,1)$ $4 125,45$ $(4 124,1)$ $4 426,65$ $(4 425,3)$ $4 128,65$ $(4 127,3)$ $4 429,85$ $(4 428,5)$ $4 131,85$ $(4 130,5)$ $4 433,05$ $(4 431,7)$ $4 135,05$ $(4 138,25)$	CoastShipCoastShip $4 410,65$ $(4 409,3)$ $4 112,65$ $(4 111,3)$ $4 413,85$ $(4 412,5)$ $4 115,85$ $(4 114,5)$ $4 417,05$ $(4 412,7)$ $4 119,05$ $(4 117,7)$ $4 420,25$ $(4 418,9)$ $4 122,25$ $(4 120,9)$ $4 423,45$ $(4 422,1)$ $4 125,45$ $(4 124,1)$ $4 426,65$ $(4 422,3)$ $4 128,65$ $(4 127,3)$ $4 429,85$ $(4 428,5)$ $4 131,85$ $(4 130,5)$ $4 433,05$ $(4 431,7)$ $4 138,25$	CoastShipCoastShipCoast $4 410,65$ $4 112,65$ $4 112,65$ $8 780,65$ $(4 409,3)$ $(4 111,3)$ $8 783,85$ $4 413,85$ $4 115,85$ $8 783,85$ $(4 412,5)$ $(4 114,5)$ $8 787,05$ $4 417,05$ $4 119,05$ $8 787,05$ $(4 415,7)$ $(4 117,7)$ $8 787,05$ $4 420,25$ $4 122,25$ $8 790,25$ $(4 418,9)$ $(4 120,9)$ $8 787,05$ $4 423,45$ $4 125,45$ $8 793,45$ $(4 422,1)$ $(4 124,1)$ $8 796,65$ $4 423,45$ $4 128,65$ $8 796,65$ $(4 428,5)$ $(4 130,5)$ $8 803,05$ $4 423,05$ $4 135,05$ $8 801,7)$ $4 436,25$ $4 138,25$ $8 809,45$ $(4 33,9)$ $(4 136,9)$ $8 809,45$	CoastShipCoastShipCoastShip4 410,654 112,658 112,658 112,658 112,658 244,65(4 409,3)(4 111,3)8 780,658 244,654 413,854 115,858 783,858 247,85(4 412,5)(4 114,5)8 787,058 247,85(4 412,5)(4 114,5)8 787,058 247,95(4 415,7)(4 117,7)8 787,058 251,05(4 418,9)(4 120,9)8 787,058 251,05(4 422,1)(4 124,1)8 790,258 254,25(4 422,1)(4 124,1)8 793,458 256,1)4 426,654 128,658 796,658 260,65(4 425,5)(4 127,5)8 795,3)8 257,45(4 428,5)(4 130,5)8 799,858 263,85(4 428,5)(4 130,5)8 799,858 263,85(4 431,7)(4 133,7)8 803,058 267,05(4 434,9)(4 136,9)8 806,258 270,25(4 434,9)(4 136,9)8 809,458 273,45(8 262,1)8 809,458 273,45(8 262,1)8 809,458 273,45	CoastShipCoastShipCoastShipCoast4 410,654 112,654 112,658 112,658 244,6513 163,154 417,954 111,38 783,858 244,6513 166,654 412,54 115,858 782,58 246,513 166,654 412,54 119,058 782,58 249,713 166,654 417,054 119,058 787,058 251,0513 170,154 417,054 112,254 122,258 790,258 254,2513 176,65(4 418,9)(4 120,9)8 790,258 254,2513 177,654 422,454 122,454 122,458 792,11(8 256,1)13 177,65(4 422,1)(4 124,1)8 793,458 257,4513 177,654 426,654 128,658 796,658 260,6513 180,65(4 425,3)(4 127,3)8 799,858 263,8513 184,154 429,854 131,858 799,858 263,8513 184,15(4 428,5)(4 130,5)8 803,058 267,0513 187,65(4 431,7)(4 133,7)8 803,058 267,0513 187,65(4 434,9)(4 136,9)8 809,458 273,4513 191,15(4 434,9)(4 136,9)8 809,458 273,4513 194,65(8 808,1)(8 268,1)(8 272,1)(13 193,3)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c cccc} Cccccccccccccccccccccccccccccccc$

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G/77(38)

APPENDIX 17

Duplex channelling of the Maritime Mobile Radiotelephone

bands between 4,000 and 23 000 kc/s (See Article 35)

NOC

NOC 2.

1.

MOD

3. (a) Stations utilizing single sideband emissions shall be considered to be in accordance with Section B if the necessary bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for single sideband emissions in accordance with the table.

(b) Stations employing double sideband emissions (A3) should operate with assigned frequencies listed in the table of Section A.

(c) Stations using single sideband channel emissions (A3A, A3H or A3J) shall operate on the upper sideband derived from the normal carrier frequencies listed in the table of Section B.

Reasons :

To provide for the introduction of single sideband operation.

NOC

4.

SECTION A

Ref.

G/77(38) (contd.)

Table of double-sideband transmitting frequencies (in kc/s)

· · ·	4 Mc/s	band	8 Mc/s	band	12 Mc/	s band	16 Mc/	s band	22 Mc/	's band
Series No.	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequen cy
1 2 3 4 5 6 7 8 9 10 11	4 371.1 4 377.4 4 383.8 4 390.2 4 396.6 4 403.0 4 409.4 4,415.8 4,422.2 4,128.6 4,434.9	4 066.1 4 072.4 4 078.8 4 085.2 4 091.6 4 098.0 4 104.4 4 110.8 4 117.2 4 123.6 4 129.9	8 748.1 8 754.4 8 760.8 8 767.2 8 773.6 8 780.0 8 786.4 8 792.8 8 799.2 8 805.6 8 811.9	8 198.1 8 204.4 8 210.8 8 217.2 8 223.6 8 230.0 8 236.4 8 242.8 8.249.2 8,255.6 8,261.9	13 133.5 13 140.5 13 147.5 13 154.5 13 161.5 13 168.5 13 175.5 13 182.5 13 189.5 13 196.5	12 333.5 12 340.5 12 347.5 12 354.5 12 361.5 12 368.5 12 375.5 12 382.5 12 389.5 12 396.5	17 293.5 17 300.5 17 307.5 17 314.5 17 321.5 17 328.5 17 328.5 17 335.5 17 342.5 17 349.5 17.356.5	16 463.5 16 470.5 16 477.5 16 484.5 16 491.5 16 498.5 16 505.5 16 512.5 16 519.5 16 526.5	22 653.5 22 660.5 22 667.5 22 674.5 22 681.5 22 688.5 22 695.5 22 702.5 22 709.5 22 716.5	22 003.5 22 010.5 22 017.5 22 024.5 22 031.5 22 038.5 22 045.5 22 052.5 22 052.5 22 059.5 22 066.5

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<u>Ref</u>.

G/77(38) (contd.)

SECTION B

TABLE OF SINGLE SIDE BAND - TRANSMITTING FREQUENCIES (in ko/s)

Nominal Carrier frequencies

	4 M o/1	s Band	8 Mc	s Band	12 Mo/s	s Band	16 Mo/	s Band	22	Mo/s Bend
Series No.	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	4368.0 4371.1 4374.3 4374.3 4377.4 4380.7 4383.8 4387.1 4390.2 4393.5 4396.6 4399.9 4403.0 4406.3 4409.4 4412.7 4415.8 4419.1 4422.2 4425.5 4428.6 4431.8 4434.9	4063.0 4066.1 4069.3 4072.4 4075.7 4078.8 4082.1 4085.2 4088.5 4091.6 4094.9 4098.0 4101.3 4104.4 4107.7 4110.8 4114.1 4117.2 4120.5 4123.6 4126.8 4129.9	8745.0 8748.1 8751.3 8754.4 8757.7 8760.8 8764.1 8767.2 8770.5 8773.6 8776.9 8780.0 8783.3 8786.4 8789.7 8792.8 8796.1 8799.2 8802.5 8805.6 8808.8 8811.9	8195.0 8198.1 8201.3 8204.4 8207.7 8210.8 8214.1 8217.2 8220.5 8223.6 8226.9 8230.0 8233.3 8236.4 8239.7 8242.8 8246.1 8249.2 8252.5 8255.6 8258.8 8261.9	13130.2 13135.5 13137.2 13140.5 13144.2 13147,5 13151.2 13154.5 13158.2 13161.5 13165.2 13168.5 13172.2 13175.5 13179.2 13182.5 13186.2 13189.5 13193.2 13196.5	12330.2 12333.5 12337.2 12340.5 12344.2 12347.5 12351.2 12354.5 12358.2 12368.5 12368.5 12372.2 12375.5 12379.2 12382.5 12386.2 12393.2 12393.2	17290.2 17293.5 17297.2 17300.5 17304.2 17307.5 17311.2 17314.5 17318.2 17321.5 17325.2 17328.5 17328.5 17339.2 17342.5 17346.2 17349.5 17353.2 17356.5	16460.2 16463.5 16467.2 16470.5 16474.2 16477.5 16481.2 16484.5 16488.2 16491.5 16495.2 16498.5 16502.2 16505.5 16509.2 16512.5 16516.2 16519.5 16523.2 16526.5	22650.2 22653.5 22657.2 22660.5 22664.2 22667.5 22671.2 22674.5 22678.2 22681.5 22685.2 22685.2 22692.2 22695.5 22699.2 22702.5 22706.2 22709.5 22713.2 22716.5	22000.2 22003.5 22007.2 22010.5 22014.2 22017.5 22021.2 22024.5 22028.2 22031.5 22035.2 22035.2 22042.2 22042.2 22045.5 22049.2 22052.5 22056.2 22059.5 22063.2 22066.5
23 24 25 26 27 28 29	4361 •7 4364 • 8	4133•1 4136•2	8732.4 8735.5 8738.7 8741.8	8265•1 8268•2 8271•4 8274•5	13109.2 13112,5 13116.2 13119.5 13123.2 13126.5	12400.2 12403.5 12407.2 12410.5 12414.2 12417.5	17262.2 17265.5 17269.2 17272.5 17276.2 17279.5 17283.2 17286.5	16530.2 16533.5 16537.2 16540.5 16544.2 16547.5 16551.2 16551.5	22622.3 22625.5 22619.2 22632.5 22636.2 22639.5 22643.2 22646.5	22070.2 22073.5 22077.2 22080.5 22084.2 22087.5 22091.2 22094.5
		s Band								· · · ·
	Coast Station Frequency	Ship Station Frequency								
31 32 33	6514.5 6518 6521.5	6203.5 6204 6207.5	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10							

Annex III	to	Document	No.	77-E
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Agenda Item 2.1 :

Frequency bands for coast and ship radiotelephone stations

in the 6 Mc/s band

HOL/71(30)

Proposal

Amend Appendices 15 and 17 to provide a number of frequencies for coast and ship radiotelephone stations in the 6 Mc/s band.

See proposals relating to Agenda Item 3, Nos. 447, 448 and 449 (HOL/72(9), Document No. 72).

Reasons :

To meet the increasing requirements of the maritime mobile radiotelephone service.

Duplex channelling of the Maritime Mobile Radiotelephone

Bands between 4000 and 23000 kc/s

(see Article 35)

MOD

1. The following Table (page-434) indicates the frequencies to be used by coast and ship stations in the bands allocated to the maritime mobile radiotelephone service between 4000 and 23000 kc/s.

NOC 2.

SUP 3.

SUP 4.

Reasons :

a) The technical characteristics contained in Appendix 17 are transferred to Appendix 17A.

See also proposal relating to Agenda Item 1 (HOL/70(6), Document No. 70).

b) To include in the revised Table of Appendix 17 the frequencies transferred from the present Appendix 15, Section B.

See also proposal relating to Agenda Item 3, Nos. 447 and 448 (HOL/72(9)).

c) A number of coast and ship station frequencies in the 4 and 8 Mc/s bands are changed so as to obtain a uniform frequency spacing in these bands.

d) In consequence of the conversion from double sideband to single sideband operation, it is desirable to include in the revised Table both the assigned and carrier frequencies for single sideband operation, as well as the carrier frequencies for double sideband operation.

<u>Ref.</u>

HOL/72(13)

Ref. .

HOL/72(13) (contd.) MOD

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Table of transmitting frequencies (in kc/s)

4 Mc/s band

		Coast	Station Frequer	n cy			Ship Station Frequency					
eries	Single S:	id eb and	Louble	Single S	ideband	A. A.	Single	Sideband	Double	Single	Sideband	
No	Assigned	Carrier	Sideband	Carrier	Assigned		Assigned	Carrier	Sideband	Carrier	Assigned	
.(1)	(2)	(3)	(4)	(5)	(6)		.(7)	(3)	' (9)	(10)	(11)	
		-	· · · · · · · · · · · · · · · · · · ·			-			;			
_ 1	4362.8	4361.4					4134.6	4133.2	、 、			
2	4366.0	4364.6					4137.8	4136.4				
						· .	· · · · · ·	· · ·				
3	4369.2	4367.8	4371.0	4371.0	4372.4		4064.4 +	4063.0 +	4066.0	4066.0	4067.4	
- 4	4375.6	4374.2	4377.4	4377.4	4378.8		4070.6	4069.2	4072.4	4072.4	4073.8	
5	4382.0	4380.6	4383.8	4383.8	4385.2		4077.0	4075.6	4078.8	4078.8	4080.2	
6	4388.4	4387.0	4390.2	4390.2	4391.6		40Ê3.4	4082.0	4085.2	4085.2	4086.6	
7	4394.8	4393.4	4396.6	4396.6	4398.0		4089.8	4088.4	4091.6	40,1.6	4093.0	
8	4401.2	4399.8	4403.0	4403.0	4404.4		4056.2	4094.8	4098.0	4098.0	4099.4	
9	4407.6	4406.2	4409.4	4409.4	4410.8		4102.6	4101.2	4104.4	4104.4	4105.8	
10	4414.0	4412.6	4415.8	4415.8	4417.2	•	4109.0	4107.6	4110.8	4110.8	4112.2	
11	4420.4	4419.0	4422.2	4422.2	4423.6		4115.4	4114.0	4117.2	4117.2	4118.6	
12	4426.8	4425.4	4428.6	4428.6	4430.0	1	4121.8	4120.4	4123.6	4123.6	4125.0	
13	4433.2	4431.8	4435.0	4435.0	4436.4		4128.2	4126.8	4130.0	4130.0	4131.4	

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HOL/72(13) (contd.) MOD

Ref.

Table of transmitting frequencies (in kc/s) (contd.)

6 Mc/s band

		Coar	st Station Frequ	uency			Shi	ip Station Frequen	n cy	
Series No	Single Sid	Ideband	Double	Single Sideband Sing		Single S	Single Sideband		Single Sideband	
	Assigned	Carrier	Sideband	Carrier	Assigned	Assigned	Carrier	Double Sideband	Carrier	Assigned
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1 2 3	6516.4 6519.6 6522.8	6515.0 6518.2 6521.4				6202.4 6205.6 6208.8	6201.0 6204.2 6207.4			

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Table of transmitting frequencies (in kc/s) (contd.)

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8. Mc/s band

		Coas	at Station Frequ	en cy			p Station Frequency				
Series	Single Si	deband	Double	Single Sideband			Single Sid	leband	Double	Single Sideband	
No	Assigned	Carrier	Sideband	Carrier	Assigned		Assigned	Carrier	Sideband	Carrier	Assigned
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)
1	8733.4	8732.0					8266.6	8265.2			
2	8736.6	8735.2					8269.8	8268.4			
3	8739.8	8738.4					8273.0	8271.6			
4	8743.0	8741.6					8276.2	8274.8			
	· .										
5	8746.2	8744.8	8748.0	8748.0	8749.4		8196.4+	8195.0+	8198.0	8198.0	8199.4
6	8752.6	8751.2	8754.4	8754.4	8755.8	4	8202.6	8201.2	8204.4	8204.4	8205.8
7	8759.0	8757.6	8760.8	8760.8	8762.2		8209.0	8207.6	8210.8	8210.8	8212.2
8.	8765.4	8764.0	8767.2	8767.2	8768.6		8215.4	8214.0	8217.2	8217.2	8218.6
9	8771.8	8770.4	8773.6	8773.6	8775.0	,	8221.8	8220.4	8223.6	8223.6	8225.0
10	8778.2	8776.8	8780.0	8780.0	8781.4	,	8228.2	8226.8	8230.0	8230.0	8231.4
11	8784.6	8783.2	8786.4	8786.4	8787.8	, ,	8234.6	8233.2	8236.4	8236.4	8237.8
12	8791.0	8789.6	8792.8	8792.8	8794.2		8241.0	8239.6	8242.8	8242.8	3244.2
13	8797.4	8796.0	8799.2	8799.2	8800.6		8247.4	8246.0	8249.2	8249.2	8250.6
14	8803.8	8802.4	88 05.6	8805.6	8807.0		8253.8	8252.4	8255.6	8255.6	8257.0
15	8840.2	8808.8	8812,0	8812.0	8813.4		8260.2	8258.8	8262.0	8262.0	8263.4

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+ A3J only

Ref. HOL/72(13) MOD (contd.)

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HOL/72(13) MOD (contd.)

Table of transmitting frequencies (in kc/s) (contd.)

		Coast	Station Freque	ency				Ship	Station Frequen	y	
Series	Single	Sideband	Double	Single	e Sideband		Single	Sideband	Double	Single	Sideband
No	Assigned	Carrier	Sideband	Carrier	Assigned		Assigned	Carrier	Sideband	Carrier	Assigned
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)
1	13110.4 +	13109.0 +					12401.4	12400.0		<u></u>	
2	13113.9	13112.5					12404.9	12403.5			
3	13117.4	13116.0					12408.4	12407.0			
4	13120.9	13119.5					12411.9	12410.5			
5	13124.4	13123.0					12415.4	12414.0			
6	13127.9	13126.5	•				12418.9	12417.5			
7	13131.4	13130.0	13133.5	13133.5	13134.9		12331.4 +	12330.0 +	12333.5	12333.5	12334.9
8	13138.4	13137.0	13140.5	13140.5	13141.9		12338.4	12337.0	12340.5	12340.5	12341.9
9	13145.4	13144.0	13147.5	13147.5	13148.9	· ·	12345.4	12344.0	12347.5	12347.5	12345.9
10	13152.4	13151.0	13154.5	13154.5	13155.9		12352.4	12351.0	12354.5	12354.5	12355.9
11	13159.4	13158.0	13161.5	13161.5	13162.9		12359.4	12358.0	12361.5	12361.5	12362.9
12	13166.4	13165.0	13168.5	13168.5	13169.9	-	12366.4	12365.0	12368.5	12368.5	12369.9
13	13173.4	13172.0	13175.5	13175.5	13176.9		12373.4	12372.0	12375.5	12375.5	12376.9
14	13,180.4	13179.0	13182.5	13182.5	13183.9		12380.4	12379.0	12382.5	12382.5	12383.9
15	13187.4	13186.0	13189.5	13189.5	13190.9		12387.4	12386.0	12389.5	12389.5	12390.9
16	13194.4	13193.0	13196.5	13196.5	13197.9		12394.4	12393.0	12396.5	12396.5	12397.9
		• • • • • • • •			A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O					•	
		u .									

12 Mc/s band

<u>Ref.</u>

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HOL/72(13) MOD (contd.)

Ref.

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Table of transmitting frequencies (in kc/s) (contd.)

16 Mc/s band

.

	·	Coast	Station Freque	ncy				Ship	Station Frequence	у 	
Series	Single S	ideband	Double Sideband	Single S	Sideband		Single Sideband		Double Sideband	Single S	ideband
No	Assigned	Carrier	DIUGUAIM	Carrier	Assigned		Assigned	Carrier	SIGEBANG	Carrier	Assigned
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)
1	17263.4 +	17262.0 +				4	16531.4	16530.0	-		
2	17266.9	17265.5					16534.9	16533.5			
3	17270.4	17269.0					16538.4	16537.0			
4	17273.9	17272.5		· ·			16541.9	16540.5			
5	17277.4	17276.0					16545.4	16544.0			
6	17280.9	17279.5					16548.9	16547.5		· .	-
7	17284.4	17283.0	~	•			16552.4	16551.0		· · · ·	
8	17287.9	17286.5					16555.9	16554.5			
9	17291.4	17290.0	- 17293.5	17293.5	17294.9		16461.4 +	16460.0 +	16463.5	16463.5	16464.9
10	17298.4	17297.0	17300.5	17300.5	17301.9		16468.4	16467.0	16470.5	16470.5	16471.9
11	17305.4	17304.0	17307.5	17307.5	17308.9		16475.4	16474.0	16477.5	16477.5	16478.9
12	17312.4	17311.0	17314.5	17314.5	17315:9		16482.4	16481.0	16484.5	16484.5	16485.9
13	17319.4	17318.0	17321.5	17321.5	17322.9		16489.4	16488.0	16491.5	16491.5	16492.9
14	17326.4	17325.0	17328.5	17328.5	17329.9		16496.4	16495.0	16498.5	16498.5	16499.9
15	17333.4	17332.0	17335.5	17335.5	17336.9		16503.4	16502.0	16505.5	16505.5	16506.9
16	17340.4	17339.0	17342.5	17342.5	17343.9		16510.4	16509.0	16512.5	16512.5	16513.9
17	17347.4	17346.0	17349.5	17349.5	17350.9		16517.4	16516.0	16519.5	16519.5	16520.9
18	17354•4	17353.0	17356.5	17356.5	17357.9		16524.4	16523.0	16526.5	16526.5	16527.9
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HOL/72(13) MOD (contd.)

Table of transmitting frequencies (in kc/s) (contd.)

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22 Mc/s band

Series	Single :	Single Sideband		Single	e Sideband		Single	Sideband	Double Sideband	Single	Sideband
No	Assigned	Carrier	Sideband	Carrier	Assigned	-	Assigned	Carrier	Didevalu	Carrier	Assigned
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)
S	22630.4	22629.0					22071.4	22070.0			
2	22633.9	22632.5					22074.9	22073.5			
3	22637.4	22636.0					22078.4	22077.0			
4	22640.9	22639 .5					22084.9	22080.5	r.		
. 5	22644.4	22643.0				-	22085.4	22084.0			
6	22647.9	22646.5					22088.9	22087.5			
7	22651.4	22650.0	22653.5	22653.5	22654.9		22001.4 +	22000.0 +	22003.5	22003.5	22004.9
8	22658.4	22657.0	22660.5	22660.5	22661.9		22008.4	22007.0	22010.5	22010.5	22011.9
9	22665.4	22664.0	22667.5	22667.5	22668.9		22015.4	22014.0	22017.5	22017.5	22018.9
10	22672.4	22671.0	22674.5	22674.5	22675.9		22022.4	22021.0	22024.5	22024.5	- 22025.9
.11	22679.4	22678.0	22681.5	22681.5	22682.9		22029.4	22028.0	22031.5	22031.5	22032.9
12	22686.4	,22685.0	22688.5	22688.5	22689.9		22036.4	22035.0	22038.5	22038.5	22039.9
13	22693.4	22692.0	22695.5	22695.5	22696.9		22043.4	22042.0	22045.5	22045.5	22046.9
14	22700.4	22699.0	22702.5	22702.5	22703.9		22050.4	22049.0	22052.5	22052.5	22053.9
15	22707.4	22706.0	22709.5	22709.5	22710.9		22057.4	22056.0	22059.5	22059.5	22060.9
10	22714.4	22713.0	22716.5	22716.5	22717.9		22064.4	22063.0	22066.5	22066.5	22067.9

<u>Ref.</u>

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FOREWORD

Revision of Appendix 17

In view of the fact that after the conversion to single sideband the present provisions of Appendix 17 for single sideband systems must be more numerous and important, it is deemed more desirable and convenient to insert them in the appropriate place of the Radio Regulations themselves.

Proposals Nos. 1/31(4) and (8) listed under Agenda Iteu 1 (Document No. 31) are based on this principle.

It will be noted that in the present distribution of coast and ship station frequencies in the 4 and 8 Mc/s bands there is no uniform spacing which is desirable.

In order to achieve this it is necessary to change as follows the frequencies listed below :

coast stations	4371.1 kc/s into 4371.0 kc/s
	4434.9 kc/s into 4435.0 kc/s
	8748.1 kc/s into 8748.0 kc/s
	8811.9 kc/s into 8812.0 kc/s
ship stations	4066.1 kc/s into 4066.0 kc/s
ship stations	4066.1 kc/s into 4066.0 kc/s 4129.9 kc/s into 4130.0 kc/s
ship stations	
ship stations	4129.9 ke/s into 4130.0 ke/s

No difficulties are foreseen as these are only minor changes; as for the frequency assignments to coast stations the recording date could be maintained in the master register according to the provisions of No. 534 of the Radio Regulations.

1/33(16)

APPENDIX 17

Duplex channelling of the maritime mobile radiotelephone band between 4000 and 23000 kc/s

(see Article 35)

NOC

1. The following Table indicates the frequencies to be used by coast stations in the bands allocated to the maritime mobile radiotelephone service between 4000 and 23 000 kc/s.

NOC

2. One or more series of frequencies are assigned to each coast station, which uses these frequencies associated, as far as possible, in pairs; each pair comprises a transmitting and receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, as far as possible, harmful interference between the services of different coast stations.

SUP 3, 3.1, 3.2, 3.2.1, 3.2.2 and 4

Ref.

I/33

Ref.

I/33(16) (contd.)

APPENDIX 17

	A3	Emission		A3A, A3H, A3.	J Emissions	
	Coast	Ship	Co	est	Sh	ip
Band Mc/s	Carrier frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequency kc/s
			4369.2	4367.8	4064.4*)	4063.0*)
4	4371,0	4066,0	4372.4	4371.0	4067.4	4066.0
	1		4375.6	4374.2	40 70 .6	4069.2
	4377.4	4072.4	4378.8	4377•4	4073.8	4072.4
			4382.0	4380.6	40 77.0	4075 .6
	4383.8	4078.8	4385.2	4383,8	4080.2	4078.8
			4388,4	4387.0	4083.4	4082.0
	4390,2	40.85.2	4391.6	4390.2	4086.6	4085.2
			4394.8	4393•4	4089.8	4088,4
	4396.6	4091.6	4398.0	4396.6	4093.0	4091.6
			4401.2	4399.8	4096.2	4094.8
	4403.0	4098.0	4404•4	4403.0	4099.4	4098.0
			4407.6	4406.2	4102.6	4101.2
	4409.4	4104.4	4410.8	4409.4	4105.8	4104.4
			4414.0	4412.6	4109.0	4107.6
	4415.8	4110.8	4417.2	4415.8	4112.2	4110.8
			4420.4	4419.0	4115.4	4114.0
	4422.2	4117.2	4423.6	4422.2	4118.6	4117.2
			4426,8	4425.4	4121,8	4120.4
	4428.6	4123.6	4430.0	4428,6	4125.0	4123.6
•.			4432,2	4431.8	4128,2	4126.8
	4435.0	4130.0	4436.4	4435.0	4131.4	4130.0
			4366.0	4364.6	4134.6	4133.2

*) A3J only

<u>Ref</u>. 1/33(16) (contd)

	A3 H	Mission		АЗА, АЗН, АЗ	J Emissions	
	Coast	Ship	Co	ast	Sh	ip
Band Mc/s	Carrier frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequency kc/s
6			651 9. 9	6518.5	6202.4	6201.0
			6523.1	6521.7	6205.7	6204.3
			8746.2	8744.8	8196.4*)	81.95,0*
8	8748.0	8198.0	8749.4	8748.0	8199.4	8198.0
e.			8752.6	8751.2	8202.6	8201.2
	8754.4	8204.4	8755.8	8754.4	8205,8	8204,4
			8759.0	8757.6	8209.0	8207.6
	8760.8	8210,8	8762.2	8760.8	8212.2	8210.8
			8765.4	8764.0	8215.4	8214.0
	8767,2	8217.2	8768.6	8767.2	8218.6	8217.2
			8771,8	8770.4	8221.8	8220.4
	8773.6	8223.6	8775.0	8773.6	8225.0	8223.6
i i i i i i		. .	8778.2	8776.8	8228,2	8226.8
	8780,0	8230.0	8781.4	8780.0	8231.4	8230.0
			8784.6	8783.2	8234.6	8233.2
	8786.4	8236.4	8787.8	8786.4	8237.8	8236.4
		a Ala ang ang ang ang ang ang ang ang ang an	8791.0	8789.6	8241.0	8239.6
· .	8792.8	8242.8	8794.2	8792.8	8244,2	8242.8
. • :			8797.4	8796.0	8247.4	8246.0
	8799.2	8249.2	8800 .6	8799.2	8250.6	8249.2
н 1.			8803.8	8802.4	8253.8	8252.4
	8805.6	8255.6	8807.0	8805.6	8257.0	8255.6
	1		8810.2	8808.8	8260.2	8258.8

*) A3J only

	A3	Emission		A3A, A3H, A3	3J Emissions	· · ·
Band	Coast	Ship	Cc	ast	Sł	nip
Mc/s	Carrier frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequenc kc/s
8	8812.0	8262.0	8813.4	8812.0	8263.4	8262.0
			8736.6	8735.2	8266.6	8265.2
•			8739.8	8738.4	8269.8	8268.4
			8743.0	8741.6	8273.0	8271.6
			13131,4	13130.0	12331,4	12330.0
12	13133.5	12333.5	13134,9	13133.5	12334.9	12333.5
			13138.4	13137,0	12338.4	12337.0
	13140.5	12340,5	13141.9	13140.5	12341.9	12340.5
			13145.4	13144.0	12345 • 4	12344.0
	13147.5	12347.5	13148.9	13147.5	12348.9	12347.5
			13152.4	13151,0	12352,4	12351.0
	13154.5	12354.5	13155.9	13154.5	12355.9	12354.5
			13159.4	13158.0	12359•4	12358.0
	13161.5	12361.5	13162.9	13161,5	12362.9	12361.5
ł		,	13166.4	13165.0	12366.4	12365.0
ſ	13168.5	12368.5	13169.9	13168.5	12369.9	12368.5
			13173.4	13172.0	12373.4	12372.0
	13175.5	12375.5	13176.9	13175.5	12376.9	12375.5
			13180.4	13179.0	12380.4	12379,0
	13182.5	12382.5	13183.9	13182.5	12383.9	12382,5
			13187.4	13186.0	12387.4	12386.0
1	13189.5	12389.5	13190.9	13189.5	12390 .9	12389.5
·			13194.6	13193.0	12394.4	12393.0

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· · · .	A3 Em	ission		A3A, A3H, A3J Emissions						
	Coast	Ship	Có	ast	Sh	ip				
Band Mc/s	Carrier frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequenc: kc/s				
12	13196.5	12396,5	13197.9	13196.5	12397.9	12396.5				
•			13113.9	13112.5	12401.4	12400.0				
			13117.4	13116 ·	12404.9	12403.5				
			13120.9	13119.5	12408.4	12407.0				
: • .			13124.4	13123	12411.9	12410.5				
· .			13127.9	13126.5	12415.4	12414.0				
			17291.4	17290.0	16461.4	16460.0				
16	17293.5	16463.5	17294,9	17293.5	16464.9	16463.5				
			17298.4	17297.0	16468.4	16467.0				
	17300.5	16470.5	17301.9	17300.5	16471.9	16470.5				
			17305.4	17304.0	16475.4	16474.0				
	17307.5	16477.5	17308.9	17307.5	16478.9	16477.5				
		÷ *	17312.4	17311.0	16482.4	16481.0				
	17314.5	16484.5	17315.9	17314.5	16485.9	16484.5				
			17319.4	17318,0	16489.4	16488.0				
	17321.5	16491.5	17322.9	17321.5	16492.9	16491.5				
			17326.4	17325.0	16496.4	16495.0				
	17328,5	16498.5	17329.9	17328.5	16499.9	16498.5				
•			17333.4	17332.0	16503.4	16502.0				
-	17335.5	16505.5	17336.9	17335.5	16506.9	16505,5				
			17340.4	17339.0	16510.4	16509.0				
	17342.5	16512.5	17343.9	17342.5	16513.9	16512.5				
, .		· ·	17367.4	17346.0	16517.4	16516.0				

	A3 E	mission	A3A, A3H, A3J Emissions						
D	Coast	Ship	C	oast	S	hip			
Band Mc/s	Carrier frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequency kc/s	Assigned frequency kc/s	Carrier frequency kc/s			
16	17349.5	16519.5	17350.9	17349.5	16520.9	16519.5			
			17354.4	17353.0	16524.4	16523,0			
-	17356.5	16526.5	17357.9	17356.5	16527.9	16526.5			
			17263.4	17262.0	16531.4	16530 .0			
			17266.9	17265.5	16534.9	16533.5			
	· · ·		17270.4	17269.0	16538.4	16537.0			
•			17273.9	17272.5	16541.9	16540.5			
			17277•4	17276.0	16545.4	16544,0			
			17280.9	17279.5	16548.9	16547.5			
÷ ;			17284.4	17283.0	16552.4	16551.0			
			17287.9	17286.5	16555.9	16554.5			
			22651.4	22650.0	22001.4	22000.0			
22	22653.5	22003.5	22654.9	22653.5	22004.9	22003.5			
	. ·		22658.4	22657.0	22008.4	22007.0			
	22660.5	22010.5	22661.9	22660.5	22011,9	22010,5			
			22665.4	22664.0	22015.4	22014.0			
	22667.5	22017.5	22668.9	22667.5	22018 .9	22017.5			
•			22672.4	22671.0	22022.4	22021.0			
, ÷.	22674.5	22024.5	22675.9	22674.5	22025 .9	22024.5			
			22679.4	22678.0	22029.4	22028.0			
	22681.5	22031.5	22682.9	22681.5	22032.9	22031,5			
			22686.4	22685.0	22036.4	22035,0			
· .	22688.5	22038.5	22689.9	22688.5	22039.9	22038.5			
	1		22693-4	22692.0	22043.4	22042.0			

<u>Ref</u>. I/33(16) (cont.)

(cont.)	
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	Δ3	Emission		A3A, A3H, A	3J Emissions	
	Coast	Ship	C	oast	·	hip
Band Mc/s	Carrier frequency ko/s	Carrier frequency kc/s	Assign ed frequency kc/s	Carrier frequency: kc/s	Assigned frequency kc/s	Carrier frequency kc/s
22	22695.5	22045.5	22696.9	22695.5	22046.9	22045.5
			22700.4	22699.0	22050.4	22049.0
	22702.5	22052.5	22703.9	22702.5	22053.9	22052.5
			22707.4	22706.0	22057.4	22056.0
	22709.5	22059.5	22710.9	22709.5	22060.9	22059.5
• •			22714.4	22713.0	22064-4	22063.0
	22716.5	22066.5	22717.9	22716.5	22067.9	22066.5
		· · · · ·	22626.9	22625.5	22071.4	22070.0
,			22630.4	22629.0-	22074.9	22073.5
,			22633.9	22632.5	22078.4	22077.0
	·		22637,4	22636.0	22081.9	22080.5
			22640.9	22639.5	22085.4	22084.0
			22644,4	22643.0	22088.9	22087,5
			22647.9	22646.5	22092.4	22091.0

J/86(40)

APPENDIX 17

Technical standards of single sideband equipments
used for the Maritime Mobile Radiotelephone Service
in the bands 1605 to 4000 kc/s and 4000 to 23 000 kc/s
and table of frequencies to be used in the
bands 4000 to 23 000 kc/s (see Articles 28, 33 and 35)

1.

- Technical standards applicable to radiotelephone coast and ship stations using the frequency bands between 1605 and 23 000 kc/s :
- (1) The upper sideband emissions shall always be used.
- (2) <u>Assigned frequencies to stations using single sideband</u> emissions shall be 1500 c/s higher than carrier frequencies.
- (3) The carrier power for classes of single sideband emissions shall be as follows :
 - a) For class A3H emissions, the carrier power shall be reduced not more than 6 db below peak envelope power of the emission;
 - b) For class A3J emissions, the carrier power shall be reduced not less than 40 db below peak envelope power of the emission;
 - c) For class A3A emissions, the carrier power shall be reduced 16 ± 2 db below peak envelope power of the emission.
- (4) The transmitter audio-frequency band shall be 350 to2700 c/s, with a permitted amplitude variation of 6 db.
- (5) The short-term limits for the carrier frequency tolerance (of the order of 15 minutes) of ship stations shall be ± 40 c/s.

Reasons :

The assigned frequency should be the centre of the necessary bandwidth. The necessary bandwidth for SSB telephony is 3 kc/s in Appendix 5 and C.C.I.R. Report, and in Japan too, as the assigned frequency, the value of 1500 c/s higher than carrier frequencies is already in force. Also, in E.A.R.C. (Aeronautical Mobile) held last year, + 1500 c/s was adopted. It is desirable to define 1500 c/s higher than carrier frequencies as the assigned frequency. Ref.

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2. Frequencies to be used by coast and ship stations in the bands allocated to the radiotelephone service between 4000 and 23 000 kc/s :

 The table in Section A indicates the frequencies for duplex channel to be used by coast and ship stations. One or more series of frequencies are assigned to each coast station, which uses these frequencies associated, as far as possible, in pairs; each pair comprises a transmitting and a receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, as far as possible, harmful interference between the services of different coast stations.

<u>Note</u> : It is necessary to change the words from "Appendix 17" to "Section A of Appendix 17" in No. 456. The Table in "Section A of Appendix 17" is given in Annex I.

Reasons :

To amend 1 and 2 in Appendix 17.

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- (2) The table in Section B indicates the frequencies for simplex channel to be used by coast and ship stations.
 - a) For the use of these frequencies, see also No. 1356 of Article 35.
 - b) In the table in Section B, the working frequencies in a given band are :
 - indicated by the lowest and highest frequency, in heavy type, in that band;
 - regularly spaced, where there are more than two; the number of frequencies and the spacing in kc/s being indicated in italics.
 - <u>Note</u>: It is necessary to change the words from "Section A of Appendix 15" to "Appendix 15" in Nos. 1145, 1146, 1158, 1175, 1180 to 1182, 1184, 1187, 1189, 1191, 1193 and 1197. The table in "Section B of Appendix 17" is given in Amnex II.

Reasons :

To transfer 1 and 3 in Appendix 15 into Appendix 17.

ANNEX I

J/86(43) **APP** 17

SECTION A

Table-of-Tranordsting-Frequencies	<u>Duplex</u>	Channelling of	the Maritime
Mobile Radiotelephone Bands betwee			

.	<u>4 Mc/s</u>	Band	8 Mc/s	Band	12 Mc/	s Band	16 Mc/s	s Band	22 Mc/s	s Band
Series No.	Coast Station Frequency	Ship Station Frequency								
ı	4369.5	4064.5	8746.5	8196.5	13131.7	12331.7	17291.7	16461.7	22651.7	22001.7
2	4372.6	4067.6	8749.6	8199.6	13135.0	12335.0	17295.0	16465.0	22655.0	22005.0
3	4375.8	4070.8	8752.8	8202.8	13138.7	12338.7	17298.7	16468.7	22658.7	22008.7
4	4378.9	4073.9	8755•9	8205.9	13142.0	12342.0	17302.0	16472.0	22662.0	22012.0
. 5	4382.2	4077.2	8759•2	8209.2	13145.7	12345.7	17305.7	16475.7	22665.7	22015.7
6	4385.3	4080.3	8762.3	8212.3	13149.0	12349.0	1/309.0	16479.0	22669.0	22019.0
7	4388.6	4083.6	8765.6	8215.6	13152.7	12352.7	17312.7	16482.7	22672.7	22022.7
8	4391.7	4086.7	8768.7	8218.7	13156.0	12356.0	1731.6.0	16486.0	22676.0	22026.0
9	4395.0	4090.0	8772.0	8222.0	13159.7	12359.7	17319.7	16489.7	22679.7	22029.7
10	4398.1	4093.1	8775.1	8225.1	13163.0	12363.0	17323.0	16493.0	22683.0	22033.0
11	4401.4	4096.4	8778.4	8228.4	13166.7	12366.7	17326.7	16496.7	22686.7	22036.7
12	4404.5	4099.5	8781.5	8231.5	13170.0	12370.0	17330.0	16500.0	22690.0	22040.0
13	4407.8	4102.8	8784.8	8234.8	13173.7	12373.7	17333.7	16503.7	22693.7	22043.7
14	4410.9	4105.9	8787.9	8237.9	13177.0	12377.0	17337.0	16507.0	22697.0	22047.0

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<u>Ref</u>.

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4 Mc/s	s Band	8 Mc/s Band		12 Mc/s Band		16 Mc/s Band		22 Mc/s Band	
Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency	Coast Station Frequency	Ship Station Frequency
4414.2	4109.2	8791.2	8241.2	13180.7	12380.7	17340.7	16510.7	22700.7	22050.7
4417.3	4112.3	8794.3	8244.3	13184.0	12384.0	17344.0	16514.0	22704.0	22054.0
4420.6	4115.6	8 79 7 .6	8247.6	13187.7	12387.7	17347.7	16517.7	22707.7	22057.7
4423.7	4118.7	8800.7	8250.7	13191.0	12391.0		16521.0	22711.0	22061.0
4427.0	4122.0	8804.0	8254.0	13194.7	12394 .7	17354.7	16524.7	22714 .7	22064.7
4430.1	4125.1	8807.1	8257.1	13198.0	12398.0	17358.0	16528.0	22718.0	22068.0
4433•3	4128.3	8810.3	8260.3						
4436.4	4131.4	8813.4	8263.4					-	
	Coast Station Frequency 4414.2 4417.3 4420.6 4423.7 4427.0 4430.1 4433.3	Station FrequencyStation Frequency4414.24109.24417.34112.34420.64115.64423.74118.74427.04122.04430.14125.14433.34128.3	Coast Station FrequencyShip Station FrequencyCoast Station Frequency4414.24109.28791.24417.34112.38794.34420.64115.68797.64423.74118.78800.74427.04122.08804.04430.14125.18807.14433.34128.38810.3	Coast StationShip StationCoast StationShip StationFrequencyFrequencyFrequencyStation4414.24109.28791.28241.24417.34112.38794.38244.34420.64115.68797.68247.64423.74118.78800.78250.74427.04122.08804.08254.04430.14125.18807.18257.14433.34128.38810.38260.3	Coast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station Frequency4414.24109.28791.28241.213180.74417.34112.38794.38244.313184.04420.64115.68797.68247.613187.74423.74118.78800.78250.713191.04427.04122.08804.08254.013194.74430.14125.18807.18257.113198.04433.34128.38810.38260.313198.0	Coast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station Frequency4414.24109.28791.28241.213180.712380.74417.34112.38794.38244.313184.012384.04420.64115.68797.68247.613187.712387.74423.74118.78800.78250.713191.012391.04427.04122.08804.08254.013194.712394.74430.14125.18807.18257.113198.012398.04433.34128.38810.38260.313198.012398.0	Coast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station Frequency4414.24109.28791.28241.213180.712380.717340.74417.34112.38794.38244.313184.012384.017344.04420.64115.68797.68247.613187.712387.717347.74423.74118.78800.78250.713191.012391.017351.04427.04122.08804.08254.013194.712394.717354.74430.14125.18807.18257.113198.012398.017358.04433.34128.38810.38260.3	Coast StationShip StationCoast StationShip StationCoast StationShip StationCoast StationShip StationCoast StationShip StationCoast StationShip Station4414.24109.28791.28241.213180.712380.717340.716510.74417.34112.38794.38244.313184.012384.017344.016514.04420.64115.68797.68247.613187.712387.717347.716517.74423.74118.78800.78250.713191.012391.017351.016521.04427.04122.08804.08254.013194.712394.717354.716524.74430.14125.18807.18257.113198.012398.017358.016528.04433.34128.38810.38260.313198.012398.017358.016528.0	Coast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station FrequencyShip Station FrequencyCoast Station Frequency4414.24109.28791.28241.213180.712380.717340.716510.722700.74417.34112.38794.38244.313184.012384.017344.016514.022704.04420.64115.68797.68247.613187.712387.717347.716517.722707.74423.74118.78800.78250.713191.012391.017351.016521.022711.04427.04122.08804.08254.013194.712394.717354.716524.722714.74430.14125.18807.18257.113198.012398.017358.016528.022718.04433.34128.38810.38260.3112398.017358.016528.022718.0

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ANNEX 11

Ref.

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APP 17

SECTION B

Garrier-Frequencies-in-ke/s simplex channelling for ship radiotelephone stations using the Maritime Mobile Service bands between 4000 and 23 000 kc/s (in kc/s)

Band Mc/s)		Hadiotelophono (Double-sideband) Gailing frequencies	Frequencies for Coast Stations and Ship Stations Redictelephone (Single-sideband) Upper-sideband carrier-frequencies	
4	4133		4134.5 and 4138 4133 and 4136.5	4140
6	6200		6202	6211
8	8265	8267 . 5 8269	8278 8273 and 8276w5 4 Frequencies spaced 3.5	8280
12	12400	12401.5 12403.5	12419 12417.5 6 6 6 Frequencies spaced 3.5	12421
16	16530	16531.5 16533.5	16559.5 16537 g 7 Frequencies spaced 3.5	16562
22	22070	22072.5 22074	22097 22078 8 6 Frequencies spaced 3.5	22100

* For particular conditions concerning the use of 6204 kc/s see No. 1353.

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APPENDIX 17

Duplex channelling of the maritime mobile radiotelephone bands between 4000 and 23000 kc/s

(see Article 35)

MOD

1. The following Table (pages 434 and 434A) indicates the frequencies to be used by coast and ship stations in the bands allocated to the maritime mobile radiotelephone service between 4000 and 23000 kc/s.

NOC

SUP

2. One or more series of frequencies are assigned to each coast station, which uses these frequencies associated, as far as possible, in pairs; each pair comprising a transmitting and a receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, as far as possible, harmful interference between the services of different coast stations.

SUP 3 /See 1358-BP and 1358-BQ7*)

/See 1358-BR/*)

SUP 3.2 /See 1358-BS/*) SUP 3.2.1 /See 1358-BJ and 1358-BT/*) SUP 3.2.2 /See 1358-BJ and 1358-BT/*)

3.1

SUP +

/See 1358-BV and 1338-BX7*)

Confec	COAS	T STA	TION FR	EQUENC	Y	S H	IP STA	TIONFI	REQUEN	C Y
Series	Singlo Si	deband	Double	Single S	ideband	Single	Sideband	Double	Single S	idebana
No.	Assigned	Carrier	Sideband	Assigned	Carrier	Assigned	Carrier	Sideband	Assigned	Carrier
(1)	(2)	(3)	(4)	(5)	(6) ⁴ Mc	s band	(8)	(9)	(10)	(11)
1			4371.1					4066.1		
A	4369.4	4368.0		ļ		4064.4	4063.0	ļ		
B			1.0000 1	4372.5	4372.2				4067.5	4066.1
2	horrs a	hagh a	4377.4		<u> </u>	1.070 7	1.060.0	4072.4		
A	4375.7	4374.3	<u> </u>	4378,8	4377.4	4070.7	4069.3	∤ ──────────	4073.8	4072.4
3 8		<u>}</u>	4383.8		+- <u>-</u>			4078.8		YIK09
Δ	4382.1	4380.7	l		[]	4077.1	4075.7	174702		
<u> </u>				4385.2	4383.8				4080.2	4078.8
4			4390.2					4085,2		
A	4388.5	4387.1				4083.5	4082.1			
<u>B</u>				4391.6	4390.2				4086.6	4085.2
5			4396.6				1 - 00 -	4091.6		
<u> </u>	4394.9	4393.5		1.000.0	1000	4089.9	4088.5			1000
<u> </u>	<u> </u>		4403.0	4398.0	4395.6			4098.0	4093.0	4091.6
0	4401.3	4399.9	4403.0		<u> </u>	4095.3	4094.9	4090.0	┝──────┟	
A B		<u></u>		4404.4	4403.0	- 4V5003			4099.4	4098.0
7			4409.4					4104.4		
A	4407.7	4405.3				4102.7	4101.3			
В				4410.8	4409.4				4105.8	4104.4
8			4415.8					4110.8		
A	4414.1	4412.7		L		4109.1	4107.7			
<u>B</u>	 	ļ		441.7.2	4415.8				4112.2	4110.8
9	1.1.00 5	11120.2	4422.2	<u> </u>	<u> </u>	1225 5	Last a	4117.2		
<u>A</u>	4420.5	4419.1	{	4423.6	4422.2	4115,5	4114.1		4118.6	4117.2
<u>B</u> 10	#	h	4428.6				*	4123.6	4110.0	<u>411 (°C</u>
A	4426.9	4+25.5	TTEOOU	<u> </u>	<u> </u>	4121.9	4120.5	0.(317	├────┼	
B			t	4430.0	4428.6				4125.0	4123.6
11	1	1	4434.9					4129.9		
A	4433.2	4431.8				4128.2	4126.8			
В				4436.3	4434.9		1		4131.3	4129.9

<u>Ref</u>. USA/18(28) (cont.)

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Series	COAS	T STA	TION I	FREQUEI	IC X	SHI	P STA	TION 1	FREQUEI	R C Y
Ro.	Single	Sideband	Double	Single S	ideband	Single S	ideband	Double	Single S	idebanu
	Assigned	Carrier	Sideband	Assigned	Carrier	Assigned	Carrier	Sideband	Assigned	Carrier
(1)	(2)	(3)	(4)	(5)	(6) ^{8 Mc/}	s Band (7)	(8)	(9)	(10)	(11)
1			8748.1					8198.1		
A	8746.4	8745.0				8196.4	8195.0			
В			0	8749.5	8748.1			1 0001 1	8199.5	8198.1
2	9860 8	9761 2	8754.4			9000 g	9001 7	8204.4		
<u>A</u>	8752.7	8751.3		8755.8	8754.4	8202.7	8201.3	+	8205.8	8204.4
<u>B</u> 3			8760.8			}		8210.8	0202.0	020404
A	8759.1	8757.7		1		8209.1	8207.7			
B				8762.2	8760.8				8212.2	8210.8
4			8767.2					8217.2		
A	8765.5	8764.1		0-0-7	0=7==	8215.5	8214.1	· · · · · · · · · · · · · · · · · · ·		
B			0000 6	8768.6	8767.2			9002 6	8218.6	8217.2
5	8771.9	8770.5	8773.6		<u> </u>	8221.9	8220.5	8223.6	+	
B	0111.9		<u></u>	8775.0	8773.6	0221.9	OLLOS		8225.0	8223.6
6			8780.0		<u> </u>			8230.0		
A	8778.3	8776.9				8228.3	8226.9			
В			(8781.4	8780.0				8231.4	8230.0
7			8786.4					8236.4		
<u>A</u>	8784.7	8783.3		0=0= 0	0-0-1	8234.7	8233.3		0007 0	9076 I
<u>B</u>			8792.8	8787.8	8786,4			8242.8	8237.8	8236.4
	8791.1	8789.7	0172.0	f	{	8241.1	8239.7	0272.0		
A B		<u> </u>		8794.2	8792.8			+	8244.2	8242.8
9			8799.2	1			· · · · · · · · · · · · · · · · · · ·	8249.2	1	
A	8797.5	8796.1				8247.5	8246.1			
В				8800.6	8799.2				8250.6	8249.2
10			8805.6					8255.6		
<u> </u>	8803.9	8802.5	ļ	1		8253.9	8252.5			0055
<u>B</u>	#		0017 0	8807.0	8805.6	· · · · ·		1 0067 0	8257.0	8255.6
11	8810.2	8808.8	8811,9	<u> </u>	·	8060.0	90 59 9	8261.9	++	
A B	0010.5	0000.0		8813.3	8811.9	8260.2	8258.8	+	8263.3	8261.9

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	COAS	T STA	TION F	REQUEN	СҮ	SHIP STATION FREQUENCY					
Series	Single Sideband		Double	Single Sid	Single Sideband		Single Sideband		Single Sideband		
No.	Assigned	Carrier	Sideband	Assigned	Carrier	Assigned	Carrier	Sideband	Assigned	Carrier	
(1)	(2)	(3)	(4)	(5)	12 Mc (6)	/s Band (7)	(8)	(9)	(10)	(11)	
1			13133.5					12333.5			
A	13131.6	13130.2				12331.6	12330.2				
В				13134.9	13133.5				12334,9	12333.5	
2			13140.5					12340.5			
A B	13138.6	13137.2		121/12 0	13140.5	12338.6	12337.2			10010	
3			13147.5	13141.9	13140.5			12347.5	12341.9	12340.5	
A	13145.6	13144.2				12345.6	12344.2	1234[02			
B		1.)1.4.4.6		13148.9	13147.5				12348.9	12347.5	
4			13154.5					12354.5			
A	13152.6	13152.2				12352.6	12351.2				
В				13155.9	13154.5				12355.9	12354.5	
5			13161.5					12361.5			
<u>A</u>	13159.6	13158.2				12359.6	12358.2				
В			20200	13162.9	13161.5				12362.9	12361.5	
6	12165 6	12165 0	13168.5			20266	30265.0	12368.5			
A B	13166.6	13165.2		13169.9	13168.5	12366.6	12365.2		12369.9	10269 5	
7			13175.5	13109.9	13100.5			12375.5	12309.9	12368.5	
A	13173.6	13172.2				12373.6	12372.2				
В				13176.9	13175.5				12376.9	12375.5	
8			13182.5					12382.5			
A	13180.6	13179.2				12380.6	12379.2				
В				13183.9	13182,5				12383.9	12382.5	
9			13189.5					12389.5			
A	13187.6	13186.2				12387.6	12386.2				
B				13190.9	13189. 5				12390.9	12389.5	
10			13196.5	l				12396.5			
<u> </u>	13194.6	13193-2		10107.0	1910(-	12394.6	12393.2				
В			· · · · · · · · · · · · · · · · · · ·	13197.9	13196.5			`	12397.9	12396.5	

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Ref. USA/18(28) (cont.)

	COAS	T STA	TION F	REQUEN	СЧ	SHIP STATION FREQUENCY					
Series	Single S	ideband	Double	Single Sideband		Single Sideband		Double	ble Single Sideba		
No.	Assigned	Carrier	Sideband	Assigned	Carrier	Assigned	Carrier	Sideband	Assigned	Carrier	
(1)	(2)	(3)	(4)	(5)	16 Mc (6)	/s Band (7)	(8)	(9)	(10)	(11)	
l			17293.5					16463.5			
A B	17291.6	17290.2		17294.9	17293.5	16461,6	16460.2		16464.9	1.6463.5	
2 A	17298.6	17297.2	17300.5			16468.6	16467.2	16470.5			
В	1(<i>4</i> 90,0			17301.9	17300.5	10400.0	T040105		16471.9	16470.5	
3 A	17305.6	17304.2	17307.5			16475.6	16474.2	16477.5			
<u>B</u>			17314.5	17308.9	17307.5			16484.5	16478.9	16477.5	
A B	17312.6	17311.2		17315.9	17314.5	16482.6	16481.2		16485.9	16484.5	
5	27020	27229 0	17321.5	+1,0+2.09		761.00 6	16488.2	16491.5			
A B	17319.6	17318.2		17322.9	17321.5	16489.6	10400.2		16492.9	16491.5	
6 A	17326.6	17325.2	17328.5			16496.6	16495.2	16498.5			
B 7			17335.5	17329.9	17328.5			16505.5	16499.9	16498.5	
AB	17333.6	17332.2		17226 0	17225 5	16503.6	16502.2		16506.9	16505 5	
8			17342.5	17336.9	17335.5			16512.5	10,00.9	16505.5	
A B	17340.6	17339.2		17343.9	17342.5	16510.6	16509.2		16513.9	16512.5	
9 A	17347.6	17346.2	17349.5			16517.6	16516.2	16519.5			
B 10		T12-005		17350.9	17349.5		10710.2		16520.9	16519.5	
A	17354.6	17353-2	17356.5			16524.6	16523.2	16526.5			
В				17357.9	17356.5				16527.9	16526.5	

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	COA	ST ST.	ATION	FREQUEI	NCY	SHIP STATION FREQUENCY						
Series	Single S	ideband	Double	Single Sidebend		Single Sideband		Double Single Si				
No.	Assigned	Carrier	Sideband	Assigned	Carrier	Assigned	Carrier	Sideband	Assigned	Carrier		
(1)	(2)	(3)	(4)	(5)	22 Mc (6)	s Band (7)	(8)	(9)	(10)	(11)		
1			22 653.5					22003.5				
A	22651.6	22650.2		22654.9	22653.5	22001.6	22000.2	<u> </u>	22004.9	22003.5		
2	22658.6	22657.2	22660.5			22008.6	22007.2	22010.5				
B 3		220)].2	22667.5	22661.9	22660.5			22017.5	22011.9	22010.5		
A	22665.6	22664.2	2200 [+ 7			22015.6	22014.2	2201 .)	00018	00017		
<u>B</u>			22674.5	22668.9	22667.5			22024.5	22018.9	22017.5		
A B	22672.6	22671.2		22675.9	22674.5	22022.6	22021.2		22025.9	22024.5		
5 A	22679.6	22678.2	22681.5			22029.6	22028.2	22031.5				
B 6			22688.5	22682.9	22681.5			22038.5	22032.9	22031.5		
A	22686.6	22685.2		22689.9	22688.5	22036.6	22035.2		22039.9	22038.5		
B 7			22695.5	22009.9	22000.5		00010	22045.5	220,39.9	22030.5		
A B	22693.6	22692.2		22696.9	22695.5	22043.6	22042.2		22046.9	22045.5		
8 A	22700.6	22699.2	22702.5			22050.6	22049.2	22052.5				
<u>B</u>			22709.5	22703.9	22702.5			22059.5	22053.9	22052.5		
AB	22707.6	22706.2		22710.9	22709.5	22057.6	22056.2		22060.9	22059.5		
10 10			22716.5	22110.9		000/1-7		22066.5				
A B	22714.6	22713.2		22717.9	22716.5	22064.6	22063.2		22067.9	22066.5		

<u>Ref</u>. USA/18(28) (cont.)

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Document No. 18-E page 19 Proposals relating to the introduction of a new Appendix 17A

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F/8(51) Appendix 17 A

After Appendix 17 insert the following :

APPENDIX 17 A

Technical characteristics of single sideband transmitters used for the maritime mobile radiotelephone service in the bands 1605 to 4000 kc/s and 4000 to 23000 kc/s.

- 1. a) For class A3H emissions the carrier power shall be 3 to 6 db less than the peak envelope power (1) of the emission.
 - b) For class A3A emissions, the carrier power shall be 16 + 2 db less than the peak envelope power of the emission (1)
 - c) For class A3J emissions, the carrier power shall be more than 40 db less than the peak envelope power (1) of the emission.

2. The upper sideband shall always be used.

3. The transmitted audio-frequency band shall be 350 to 2700 c/s, the amplitude variation with the frequency not exceeding 6 db.

4. The maximum short-term drift (of the order of 15 minutes) shall be less than ± 40 c/s.

(1) This note concerns the French text only.

APPENDIX 17A

Technical characteristics for single sideband equipment used in

the maritime mobile radiotelephony services in the bands

1605 to 3800 kc/s and 4000 to 23 000 kc/s

(See Articles 28 and 35 and Appendix 17)

1. In coast and ship station transmitters facilities should be provided for both class of emission A3A having a carrier reduction of 16 ± 2 db below peak envelope power, and class of emission A3J having a carrier reduction of not less than 40 db below peak envelope power.

2. The carrier frequency of the transmitters should be maintained within the following tolerances :

a) for coast stations : $\pm 20 \text{ c/s}$;

b) for ship stations : short-term limits (of the order of 15 min.) + 40 c/s;

c) for ship stations : within <u>+</u> 100 c/s of the reference value.

3. The carrier frequency of the receivers should be maintained within the following tolerances :

a) for coast stations : ± 20 c/s;

4. The channel arrangements should be such, that two SSB channels are accommodated within each existing DSB channel and the bandwidth of the SSB emissions should be kept within such limits as will permit this to be done.

Ref.

G/76(32)

ADD

<u>Ref.</u>

G/76(32) (cont.)

5. The transmitter audio-frequency band should be 350 to 2700 c/s, with a permitted amplitude variation of 6 db; (Note 2)

6. The unwanted frequency modulation of the SSB carrier should be sufficiently low to prevent harmful distortion.

7. In the medium frequency maritime mobile radiotelephony bands, SSB ship stations should be able to insert a carrier at a level sufficient to permit satisfactory reception by DSB receivers when communicating with DSB stations.

8. In the particular case of transmissions on the radiotelephone calling and distress frequency 2182 kc/s, all transmissions should be made either by DSB, or by SSB with a carrier level sufficient to permit satisfactory reception by DSB receivers.

Nota 1 : This value may be maintained either manually or by other means.

Note 2 : These limits may need to be modified when selective calling is introduced.

HOL/70(6)

ADD

APPENDIX 17A

Technical and operational provisions for radiotelephone stations using single sideband emissions in the maritime mobile bands 1605 - 4000 kc/s and 4000 -23000 kc/s

(See Articles 28 and 35 and Appendix 17)

- 1. a) For the class of emission A3A the carrier shall be reduced to $16 \text{ dB} \pm 2 \text{ dB}$ below peak envelope power.
 - b) For the class of emission A3J the carrier shall be reduced to not less than 40 dB below peak envelope power.

2. The carrier frequency of the transmitters shall be maintained within the following tolerances :

- a) coast stations : + 20 cycles per second;
- b) ship stations : \pm 100 cycles per second; The short-term limits (of the order of 15 minutes) of ship stations shall be \pm 40 cycles per second.

3. The transmitter audio-frequency band shall be 350 to 2700 cycles per second, with a permitted amplitude variation of 6 dB.

4. The unwanted frequency modulation of the carrier shall be sufficiently low to prevent harmful distortion.

5. Coast and ship stations shall use upper sideband emissions.

6. Frequency bands between 1605 and 4000 kc/s :

6.1 The channel arrangements shall be such that two single sideband channels of at least 3 kc/s bandwidth each are accommodated within each existing double sideband channel of at least 6 kc/s bandwidth.

6.2 The carrier frequency of a station operating in the upper half of a double sideband channel shall be the same as the carrier frequency of the double sideband channel.

HOL/70(6) (cont.)

7.

- 6.3 The carrier frequency of a station operating in the lower half of a double sideband channel shall be 3000 cycles per second below the carrier frequency of the double sideband channel.
- 6.4 The assigned frequency will be 1400 cycles per second higher than the carrier frequency.

Frequency bands between 4000 and 23000 kc/s :

7.1 A station utilizing single channel single sideband or two channel independent sideband emissions shall be considered to be in accordance with the Table of Appendix 17 (Revised) if

- 7.1.1 it operates in the channels with assigned frequencies at the appropriate values listed in the Table;
- 7.1.2 the necessary bandwidth does not extend beyond the upper or lower limits provided for these emissions in accordance with the Table.
- 7.2 In the Table of Appendix 17 (Revised) both the assigned and carrier frequencies are shown.
- 7.3 If an administration assigns frequencies other than those indicated above, its radiotelephone service shall not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequencies assigned to them in accordance with Appendix 17 (Revised).
- 7.4 Independent sideband emission may be used by agreement between administrations concerned and affected in those instances where adjacent single sideband channels are assigned to a coast station.

<u>Reasons</u> :

To include the technical characteristics for single sideband emissions as recommended by the C.C.I.R. as well as the technical characteristics contained in the present Appendix 17, in one new appendix to the Radio Regulations.

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Proposals relating to Appendix 18

Table of Transmitting Frequencies for the Band 156-174 Mc/s for Radiotelephony in the International Maritime Mobile Service

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APPENDIX 18

	····	(000 11				
Channel	Transmitting (M	Frequencies c/s)	Intership	Port Op	erations	Public Corres-
designators	Ship Coast Stations Stations		mersinp	Single Frequency	pondence	
1	156-05**	160-65			10	8
2	156-10	160.70			8	10
3	156-15**	160.75			9	9
4	156-20	160.80			11	7
5	156-25	160.85			6	12
6	156-30					
7	156-35	160.95			7	11
8	156-40		2			
9	156-45	156.45	5	5		. <u> </u>
10	156-50	· · · ·	3	***	·	
11	156 55	156-55		3		
12	156-60	156-60		1		
13	156-65	156.65	4	4		
14	156-70	156.70		(2)		
15		Guard bar	nd 156.725 -	- 156-775 M	c/s	
16	156-80	156-80		LLING A		ГҮ
17		Guard bar		- 156-875 M		
18	156-90	161-50	1		3	
19	156-95	161.55			4	
20	157-00	161.60				
[156-05**				
21	157.05	or			5	
		161-65				
22	157-10	161.70			2	
		156-15**				
23	157-15	or .				5
		161.75				
24	157.20	161.80		·		
25	157-25	161-85				3
26	157.30	161.90		· .		
27	157.35	161-95				2
28	157-40	162.00				6

Table of Transmitting Frequencies for the Band 156-174 Mc/s for Radiotelephony in the International Maritime Mobile Service * (See Article 35)

* For assistance in understanding the Table, see notes a) to g) below.

** See Note *e*). *** See Note *f*).

NOTES REFERRING TO THE TABLE

- a) The figures in the column headed "Intership" indicate the normal sequence in which channels should be taken into use by mobile stations.
- b) The figures in the columns headed "Port Operations" and "Public Correspondence" indicate the normal sequence in which channels should be taken into use by each coast station. However, in some cases, it may be necessary to omit channels in order to avoid harmful interference between the services of neighbouring coast stations.
- c) During ice seasons, ship stations shall avoid harmful interference to communications on 156.30 Mc/s (Channel 6) between icebreakers and assisted ships.
- d) Administrations should, as far as possible, arrange that ship stations fitted with the channels corresponding to the figures in a circle can obtain a reasonably adequate use of available services.
- e) The frequencies 156.05 and 156.15 Mc/s marked ** are used as ship station frequencies in Channels 1 and 3 respectively and as coast station frequencies in Channels 21 and 23 respectively when these latter are used in the special semi-duplex public correspondence systems employed by France and Belgium, with 1 Mc/s separation between transmit and receive frequencies.
- f) Channel 10 marked *** is also available for port operations in Region 2.
- g) In the United States of America, the frequencies 156.35, 156.90, 156.95, 157.05, 157.10, 157.15 and 157.20 Mc/s are not available for use in accordance with this Table. These frequencies will be used for other functions in the maritime mobile service.

Agenda Item 4 - Possible revision of Appendix 18 to the Radio Regulations

CAN/42(32) <u>Co</u>

Comments

Canada is of the opinion that the Maritime Mobile frequencies in the band 156 - 174 Mc/s as outlined in Appendix 18 of the Radio Regulations should be retained on the basis that the function of those channels presently spaced 50 kc/s will not be changed. Recognizing the need for additional VHF channels, Canada is prepared to support the adoption of a revision to this Appendix which would permit the inclusion of 25 kc/s channels to be implemented on a national or regional basis provided full protection is given to 50 kc/s channel operations designated above and on an agreed date all frequencies would be used on a 25 kc/s channel separation.

(No specific proposals for this item.)

F/14(90) Appendix 18

Replace the footnote under *) by the following :

*) For assistance in understanding the Table, see notes a) to h) below :

. . •

Notes referring to the table

Add the following note h) :

h) The frequencies in this table may also be used for shipping on inland waterways, in the conditions specified in No. 287.

Reasons :

See Proposal F/14(89) relating to No. 287.

G/112(55) MOD

Appendix 18

Table of transmitting frequencies for the band 156-174 Mc/s

for radiotelephony in the international maritime mobile service*

(See Article 35)

Channel	Transmitting Channel <u>Frequencies (Mc/s</u>		.	Port op	erations	Public	Other uses
desig- nators	'Ship Stations	Coast Stations	Inter- ship	Single frequency	Two frequency	corres- pondence	of inter- leaved channels
1	156.050**	160.650		-	10		· · ·
51	156.075	160.675					Pilot stations
2	156.100	160.700			8	, · · ·	
52	156.125	160.725					Pilot stations
3	156.150**	160.750			9		
53	156.175	160.775			13		
4	156.200	160.800			11 '		
54	156.225	160.825			14		
5	156.250	160.850			6	-	
55	156.275	160.875			15		
`6	156.300	-	1				
56	156.325	160.925			17		
7	156.350	160.950			7		
57	156.375	156.375		8			
8	156.400	156.400	2	6			
58	156.425	161.025			12		r.
. 9	156.450	156.450	5	5****			
				• ·			

* For assistance in understanding the Table, see Notes a) to h) below

** See Note e)

**** See Note h)

G/112(55) MOD (cont.)

Channel		nitting les (Mc/s)	T -4	Port op	erations	Public	Other uses
desig- nators	Ship Stations	Coast Stations	Inter- ship	Single frequency	Two frequency	corres- pondence	of inter- leaved channels
59	156.475	1	6				
10	156.500	156.500	3	7			· .
60	156.525	-					On board
11	156.550	156.550		3			
61	156.575	156 .57 5					Cargo handling
12	156.600	156.600		1			
62	156.625	156.625		2 • .			Cargo handling
13	156.650	156.650	· 4	4****			
63	156.675	156.675					Cargo handling
14	156.700	156.700		2			
64	156.725	156.725					Cargo handling
15	156.750			9			
65		Guar	d band]	156 . 7625-156	.7875 Mc/s		
16	156.800	156.800	CALLIN	G AND SAFET	Y I		
66		Guar	d band 1	.56.8125-156	.8375 Mc/s		
17	156.850	-	. .	10			
67	156.875			-			On board
18	156,900	161.500			3		
68	156.925	161.525			16	and the second sec	
19	156.950	161.550			4		
69	156.975	161.575				12	
20	157.000	161.600			1 1		

**** See Note h)

<u>Ref</u>.

G/112(55) MOD (cont.)

Channel		nitting ies (Mc/s)		Port op	erations	Public	Other uses
desig- Shi	Ship Stations	p Coast Inter- Single Two		Two frequency	corres- pondence	of inter - leaved channels	
7 0	15 7. 025	161.625					Usage under consideration
21	157.050	156.050** or 161.650		×	5		
71	157.075	161.675					Usage under . consideratior
22	157.100	161.700		, ,	2		
72	157.125	161.725					Usage under consideratior
23	157.150	156.150**				5	
		or 161.750					
7 3	157.175	161.775				7	
24	157.200	161.800				4	
74	157.225	161.825				8	
25	157.250	161.850				3	
7 5	157.275	161.875				9 .	
26	157.300	161.900				. 1	
76	157.325	161.925				11	
27	157.350	161.950				2	
77	157.375	161.975				10	
28	157.400	162.000				6	

** See Note e)

<u>Ref</u>. G/112(55) (cont.)

NOTES REFERRING TO THE TABLE

- a) The figures in the column headed "Intership" indicate the normal sequence in which channels should be taken into use by mobile stations.
- b) The figures in the columns headed "Port Operations" and "Public Correspondence" indicate the normal sequence in which channels should be taken into use by each coast station. However, in some cases, it may be necessary to omit channels in order to avoid harmful interference between the services of neighbouring coast stations.
- c) During ice seasons, ship stations shall avoid harmful interference to communications on 156.30 Mc/s (Channel 6) between icebreakers and assisted ships.
- d) Administrations should, as far as possible, arrange that ship stations fitted with the channels corresponding to the figures in a circle can obtain a reasonably adequate use of available services.
- e) The frequencies 156.05 and 156.15 Mc/s marked ** are used as ship station frequencies in Channels 1 and 3 respectively and as coast station frequencies in Channels 21 and 23 respectively when these latter are used in the special semi-duplex public correspondence systems employed by France and Belgium, with 1 Mc/s separation between transmit and receive frequencies.
- f) Delete.

<u>Reasons</u>: Consequential upon amendment to Channel 10 - see Table.

- g) In the United States of America, the frequencies 156.35, 156.90, 156.95, 157.05, 157.10, 157.15 and 157.20 Mc/s are not available for use in accordance with this Table. These frequencies will be used for other functions in the maritime mobile service.
- h) Channels 9 and 13 marked **** may be used, on low power (1 watt) for berthing operations.

<u>Reasons</u> : To provide for berthing operations.

HOL/75(27)

APPENDIX 18

MOD	*)	For assist	tance	in understanding'	the Table,
	see	notes a) t	to <u>h</u>)	below.	

ADD

h) The frequencies in this Table may also be used for mobile radiotelephone communications on inland waterways in accordance with the provisions of No. 287.

Reasons :

To permit the use of the frequencies listed in Appendix 18 for mobile radiotelephone communications on inland waterways.

USA/55(47)

MOD

APPENDIX 18

Table of Transmitting Frequencies for the Band 156-174 Mc/s . for Radiotelephony in the International Maritime Mobile Service ¥

Channel designa.		; Frequencies Mc/s)	Inter-	Port Ope	erations	Public Corres-	<u>Navi</u> - gation-
tors	Ship Stations	Coast Stations	ship	Single Frequency	Two Frequency	pondence	-
1	156.05**	160,65			10	8	
. 2	156.10	160.70			8	10	
3	156.15**	160,75			9	9	
4	156.20	160.80			11	7	
5	156.25	160.85			6	12	
6	156,30		1				
7	156.35	160.95			7	11	
8	156.40		2				
9	156.45	156.45	5	5			
10	156.50		3	***			
11	156.55	156,55		3			
12	156.60	156.60		(1)			
13	156.65	156.65		4		-	ſ
14	156.70	156.70	******	2			
15		Guard band	156.725	- 156.775 M	lc/s		
16	156.80	156.80	· C4	LLING AND S	SAFETY		
17		Guard band	156.825	Mc/s - 156.	875 Mc/s		
16	156.90	161.50	7 West-1, 1 and 2, 1 and 200 and 200		3		
19	156,95	161.55			4		
20	157.00	161,60			Ì		
21	157.05	156.05** or161.65			5		
22	157.10	161.70			2		
23	157.15	156.15** or 161.75				5	
24	157.20	161,80				4	
25	157.25	161.85				3	
26	157:30	161.90				\bigcirc	
27	157,35	161.95				2	•
28	157.40	162.00				6	

(See Article 35)

For assistance in understanding the Table, see notes a) to h) below. ***

** See Note e) See Note f).

APPENDIX 18

Notes referring to the Table

- USA/55(47) (cont.)
- NOC a) The figures in the column headed "Intership" indicate the normal sequence in which channels should be taken into use by mobile stations.
- NOC b) The figures in the columns headed "Port Operations" and "Public Correspondence" indicate the normal sequence in which channels should be taken into use by each coast station. However, in some cases, it may be necessary to omit channels in order to avoid harmful interference between the services of neighbouring coast stations.
- NOC c) During ice seasons, ship stations shall avoid harmful interference to communications on 156.30 Mc/s (Channel 6) between icebreakers and assisted ships.
- NOC d) Administrations should, as far as possible, arrange that ship stations fitted with the channels corresponding to the figures in a circle can obtain a reasonably adequate use of available services.
- NOC e) The frequencies 156.05 and 156.15 Mc/s marked ** and in used as ship station frequencies in Channels 1 and j respectively and as coast station frequencies in Channels and 23 respectively when these latter are used in the special semi-duplex public correspondence systems employed by France and Belgium, with 1 Mc/s separation between transmit and receive frequencies.
- NOC f) Channel 10 marked *** is also available for port operations in Region 2.
- MOD g) In the United States of America, the frequencies 156.32, 156.90, 156.95, 157.05, 157.10, and 157.15 157.20 Mc/s are not available for use in accordance with this Table. These frequencies will be used for other functions in the maritime mobile service.
- ADD h) The intermediate frequencies between (spaced 25 ho/s from) those listed in the Table may be assigned to stations in the maritime mobile service for radiotelephony to meet national requirements. In assigning these intermediate frequencies, administrations shall give full consideration to adequate technical measures for preventing harmful interference to stations operating on frequencies listed in the Table.

<u>Ref.</u>

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Proposals relating to Appendix 19

Technical Characteristics for Transmitters and Receivers used in the Maritime Mobile Service in the 156 - 174 Mc/s Band

APPENDIX 19

Technical Characteristics for Transmitters and Receivers used in the Maritime Mobile Service in the 156-174 Mc/s Band

(See Articles 28 and 35 and Appendix 18)

1. Only frequency modulation with a pre-emphasis of 6 db/octave (phase modulation) shall be used.

2. The frequency deviation corresponding to 100% modulation shall approach 15 kc/s as nearly as practicable. In no event shall the frequency deviation exceed \pm 15 kc/s. However, it is recognized that under certain conditions, the percentage of modulation may be decreased to avoid adjacent channel interference.

3. When transmitting on any of the frequencies designated in the Table in Appendix 18, the emission of each station shall be polarized vertically at the source.

4. The audio frequency bandwidth shall be limited to 3 000 c/s.

F/11(69)

Appendix 19 - Amplify paragraph 2 by the following :

All transmitters brought into service after 1 January 1970 shall be so designed as to permit of easy reduction of the maximum frequency deviation from 15 to 5 kHz.

Reasons :

To ensure that transmitters brought into service after this date will be able to operate in due course with a separation of 25 kHz between adjacent channels.

(See draft Resolution F/11(70)).

APPENDIX 19

RFA/95(29)

5. For short-distance radiotelephone traffic it must be possible to reduce the power to 1 watt or less.

Reasons :

NOC

ADD

The port operations radio traffic is usually handled over short distances between coast stations and ship stations or between ship stations within or near ports or on rivers and near shores. In order to prevent interference to stations working on the same channels, it would be useful and necessary to have the possibility of reducing the power of the VHF radiotelephone installations to 1 watt or less. Reference is made in this connection to No. 27 (a) of the I.M.C.O. Document COM II/18 of 6 February 1967.

USA/55(48)

1. Only frequency modulation with a pre-emphasis of 6 db/octave (phase modulation) shall be used.

- MOD 2. The frequency deviation corresponding to 100% modulation shall approach 15 <u>5</u> kc/s as nearly as providcable. In no event shall the frequency deviation exceed <u>+ 15 5 kc/s.</u> However, it is recognized that under certain conditions, the percentage of modulation may be decreased to avoid adjacent channel interference.
- NOC 3. When transmitting on any of the frequencies designated in the Table in Appendix 18, the emission of each station shall be polarized vertically at the source.

NOC 4. The audio frequency bandwidth shall be limited to 3000 c/s.

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Proposals relating to Appendix 20

Automatic Receiving Equipment for Radiotelegraph and Radiotelephone Alarm Signals

APPENDIX 20

Automatic Receiving Equipment for Radiotelegraph and Radiotelephone Alarm Signals

(See Section VIII of Article 36)

1. The automatic devices intended for the reception of the radiotelegraph alarm signal shall fulfil the following conditions :

- a) The equipment shall respond to the alarm signal transmitted by the telegraphic emissions of at least class A2 or B (but see No. 677).
- b) The equipment shall respond to the alarm signal through interference (provided it is not continuous) caused by atmospherics and powerful signals other than the alarm signal, preferably without any manual adjustment being required during any period of watch maintained by the apparatus.
- c) The equipment shall not be actuated by atmospherics or by strong signals other than the alarm signal.
- d) The equipment shall possess a minimum sensitivity such that with negligible atmospheric interference, it is capable of being operated by the alarm signal transmitted by the emergency transmitter of a ship station at any distance from this station up to the normal range fixed for this transmitter by the International Convention for the Safety of Life at Sea, and preferably at greater distances.
- e) The equipment shall give warning of any fault which would prevent the apparatus from performing its normal functions during watch hours.

2. The automatic devices intended for the reception of the radiotelephone alarm signal shall fulfil the following conditions :

- a) The equipment shall respond to the alarm signal through intermittent interference caused by atmospherics and powerful signals other than the alarm signal, preferably without any manual adjustment being required during any period of watch maintained by the equipment.
- b) The equipment shall not be actuated by atmospherics or by strong signals other than the alarm signal.
- c) The equipment shall be effective beyond the range at which speech transmission is satisfactory and it should, as far as practicable, give warning of faults that would prevent the apparatus from performing its normal function during watch hours.

G/58(7)

Appendix 20

1.

MOD

a) Replace present text by:

a) The equipment shall respond to the alarm signal transmitted by the telegraphic emissions of at least Class A2 (see 974.1) or A2H.

Reasons :

To delete Class B (the permissive use of this type of emission ceased on 1 January, 1966; to provide for class A2H emissions, and in order to ensure the correct operation of all types of radiotelegraphy automatic alarm equipments.

G/63(72)

Appendix 20

Delete reference to Class B emissions. (See UK proposals for Agenda Item 5. Document No. 58).

Reasons :

MOD

The permissive use of Class B emissions by existing stations for distress calls and distress traffic ceased on 1 January, 1966.

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Proposals relating

to the introduction of new Appendix 20A, 20B and 20C

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<u>Ref</u>.

G/60(24) ADD

APPENDIX 20A

Technical characteristics of emergency position-indicating

radio-beacons operating on the frequency 2182 kc/s

(See Section VIIIA of Article 36)

1. Emergency position-indicating radio-beacons shall fulfil the following conditions :

a) Low power beacon (Type L)

1) the power radiated shall be of a value necessary to produce at a distance of 30 nautical miles at sea level

- a minimum initial field strength of 2.5 microvolts per metre;

- a field strength equal to or less than 10 microvolts per metre.

2) After a period of 48 hours continuous operation the radiated power shell not be less than 20 per cent of the initial power.

b) <u>High power beacon (Type H)</u>

1) the power radiated shall be of a value necessary to produce a field strength greater than 10 microvolts per metre at a distance of 30 nautical miles at sea level.

c) shall be capable of Class A2 emission, with a depth of modulation between 30 and 90 per cent.

d) The keying signal for Type L beacon shall consist of a keyed emission modulated by a tone of 1300 cycles per second (\pm 20 cycles per second), having a ratio of the period of the emission to the period of silence equal to or greater than one, and an emission duration between one and five seconds. <u>Ref</u>.

G/60(24) (cont.) e) The keying signal for a Type H beacon shall either consist of the radiotelephone alarm signal (see No. 1465) or be the same as in d) above; if the radiotelephone alarm signal be used, the morse letter 'B' and/or the call-sign of the ship to which the beacon belongs, shall be included by keying a carrier modulated by a tone of 1300 cycles per second (\pm 20 c/s) or of 2200 cycles per second (\pm 35 c/s).

f) Speech transmission may be provided if administrations so desire.

g) Equipment shall be so designed as to comply with relative C.C.I.R. recommendations.

APPENDIX 20B

Narrow-band direct printing telegraph equipment

f,

(see Articles 28, 29 and 32)

1. The equipment for narrow-band direct printing telegraphy in the maritime mobile service shall fulfil the following conditions :

a) Equipment intended for interconnection with the Public Telegraph Network shall accept signals conforming to International Telegraph Alphabet No. 2 at a modulation rate of 50 bauds and shall provide similar signals at its output.

b) The modulation rate over the radio path shall not exceed 100 bauds.

c) Class Fl emission shall be used, with a frequency shift of 170 c/s.

d) For ship stations, the centre of the frequency band occupied by the emission shall at all times be maintained within ± 100 c/s of the assigned frequency, and for short periods (of the order of 15 minutes), within ± 40 c/s.

e) For coast stations, the centre of the frequency band occupied by the emission shall at all times be maintained within ± 20 c/s of the assigned frequency.

<u>Ref.</u>

G/60(17)

ADD

G/113(57) ADD

APPENDIX 200

Selective calling system for use in the

international maritime mobile services

(See Articles 19, 28A, 29 and 33 and Appendix 9)

that where there is a need to fulfil 1. immediate requirements for selective calling the system to be used should have the following characteristics :

- 1.1 the selective call signal should consist of five figures representing the code number assigned to a ship for selective calling;
- 1.2 the audio frequency signal applied to the input of the coast station transmitter should consist of consecutive audio-frequency pulses conforming to the following :
 - 1.2.1 The audio frequencies used to identify the figures of the code number assigned to a ship should conform to the following series :

Figure	1	2	3	4	5	6	7	8	9	0	Figure repeti- tion
Audio fre- quency (c/s)	1124	1197	1275	1358	1446	1540	1640	1747	1860	1981	2110

- For example, the series of audiofrequency pulses corresponding to the selective call 12 139 would be 1124-1197-1124-1275-2110 c/s, and the series corresponding to the code number 22222 would be 1197-2110-1197-2110-1197 c/s;
- 1.2.2 if the series of numbers represented by the use of only two frequencies, chosen from those in Section 1.2.1, are reserved for calling predetermined groups of ships, then 100 different groups of numbers are available for allocation, according to the needs of administrations;
- 1.2.3 the waveforms of the audio-frequency generators should be substantially sinusoidal and not exceeding 2% total harmonic distortion;

G/113(57) (cont.)

- 1.2.4 the audio-frequency pulses should be transmitted sequentially;
- 1.2.5 the difference between the maximum amplitude of any audio-frequency pulses should not exceed 1 dB;
- 1.2.6 the duration of each audio-frequency pulse, measured between the nall-amplitude points, should be 100 ms ± 10 ms;
- 1.2.7 the time interval between consecutive pulses, measured between the halfamplitude points, should be 3 ms + 2 ms;
 - 1.2.8 the rise and the decay time of each audio-frequency pulse, measured between the 10% and 90% amplitude points, should be 1.5 ms ± 1 ms;
 - 1.2.9 the frequency tolerance of the audio
 frequencies given in Section 1.2.1 should
 be <u>+</u> 4 c/s;
- 1.2.10 the selective call signal (ship's code number) should be transmitted twice with an interval of 900 ms ± 100 ms between the end of the first signal and the beginning of the second signal (Figure 1);
- 1.2.11 the interval between calls from a coast station to different ships should be at least 1 s (Figure 1).

2. that if additional information is added to the selective call signal it should be as follows :

- 2.1 to identify the calling coast station four figures should be transmitted;
- 2.2 to identify the VHF channel on which a reply is required two "zeros" followed by two "figures" should be transmitted;
- 2.3 the characteristics of the signals should conform to Sections 1.2.1 and 1.2.3 to 1.2.9 inclusive;
- 2.4 the composition of the signal should be as shown in the diagram (Figure 2); the tolerance on the 350 ms interval being <u>+</u> 30 ms;

G/113(57) (cont.)

3. that an "all ships call" to actuate the receiving selectors on all ships, regardless of their individual code numbers, should consist of a continuous sequential transmission of the eleven audio-frequencies given in Section 1.2.1. The parameters of the audio-frequency pulses should be in accordance with Sections 1.2.3, 1.2.4, 1.2.5, and 1.2.9. The duration of each audio-frequency pulse, measured between the half-amplitude points, should be 17 ms \pm 1 ms and the interval between consecutive pulses, measured between half-amplitude points, should not exceed 1 ms;

4. that receiving selectors on ships should operate reliably in any radio conditions acceptable for satisfactory communication;

5. that the receiving selector should be designed to accept the signals as defined in Section 1. However, bearing in mind that coast stations may transmit additional signals (e.g. coast station identification) it is important that the re-set time of the decoder should be 250 ms \pm 40 ms;

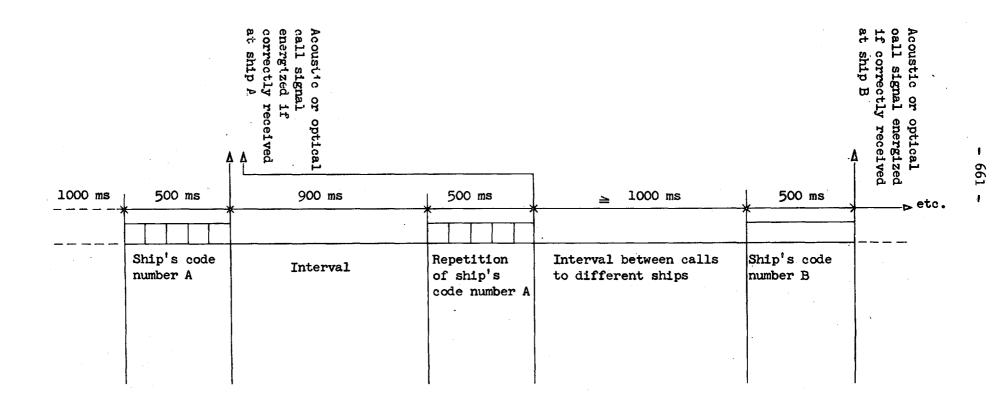
6. that the receiving selector should be so designed, constructed and maintained that it is resistant to atmospherics and other unwanted signals including selective calling signals other than that for which the decoder has been set up;

7. that the receiving selector should include an audible or visual means of indicating the receipt of a call and, if required, an additional facility allowing the determination of the identity of the calling station or the VHF channel on which to reply according to the needs or administrations;

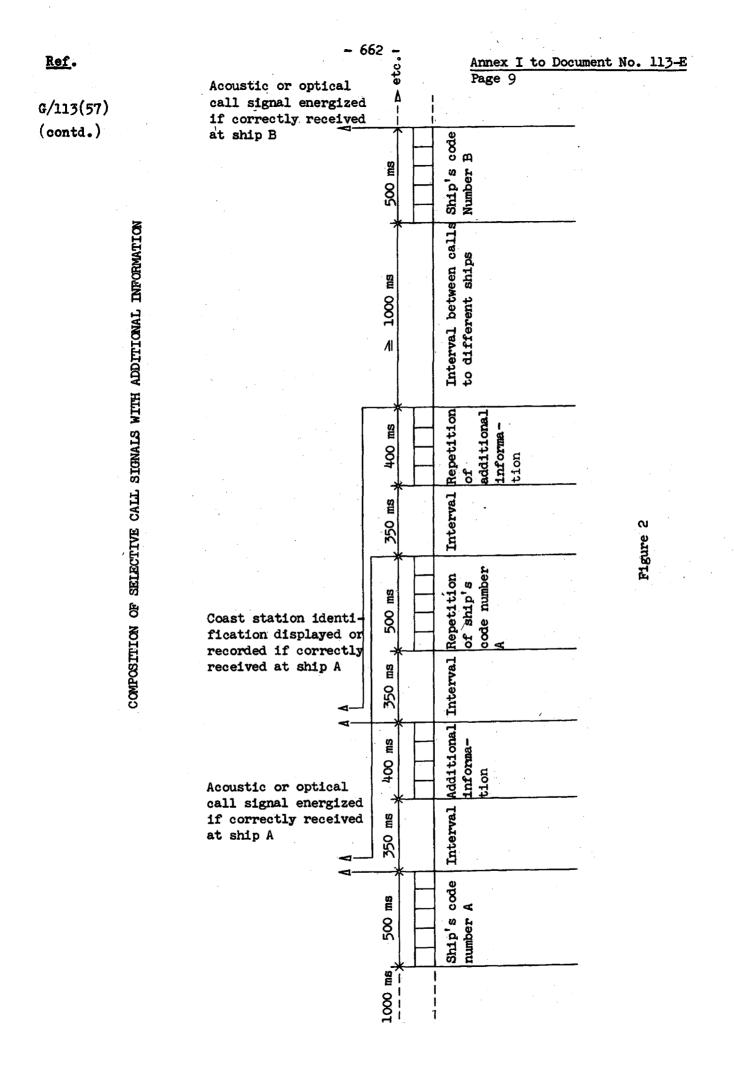
8. that the indicating means should be actuated on correct reception of the calling signal, no matter whether the correct registration has occurred on the first, or the second, or both parts of the calling signal transmitted by the coast stations;

9. that the indicating means should remain actuated until re-set manually;

10. that the receiving selector equipment should be as simple as is practicable, be capable of reliable operation over long periods with a minimum of maintenance, and could, with advantage, include facilities for self-testing. COMPOSITION OF SELECTIVE CALL SIGNALS WITHOUT ADDITIONAL INFORMATION



• .



Proposals relating to Appendix 25

Frequency Allotment Plan for Coast Radiotelephone Stations Operating in the Exclusive Maritime Mobile Bands between 4000 and 23000 kc/s In view of the lenght of Appendix 25 to the Radio Regulations, we considered that it was not essential to reproduce the present text. Agenda Item 3 - Consequential revision of Appendices 15, 17 and 25 to the Radio Regulations

CAN/41(31) Comments

As a consequence of Canadian proposals in relation to Agenda items 2.4 and 1 Appendices 15 and 17 have been revised and are contained herein.

Canada is of the opinion that Appendix 25 should be revised on the basis of SSB operation. Such a revision would make available additional frequencies to provide for the needs of new and developing countries and also to satisfy requirements of existing users. Such a plan will greatly increase the sharing possibilities of the frequencies available.

Canada is of the opinion that there is sufficient time for this Conference to revise the plan providing Member countries are prepared to state their requirements. This could be achieved by the following procedure :

- 1) Replace existing Appendix 25 DSB allotments which have been implemented and listed in the International Frequency List with new SSB channels.
- 2) Replace those frequency assignments already in use and listed in the International Frequency List but not allotted in existing Appendix 25 with new SSB channels.
- 3) Satisfy new requirements.
- 4) Agree on implementation date.

F/10(186)

Appendix 25

The proposals made by France concerning the division of the DSB channels appearing in Appendix 17 (1959) into two SSB channels and the inclusion in the new Appendix 17 of the channels in Appendix 15B (1959) would provide supplementary channels to meet new HF radiotelephone requirements of the Maritime Mobile Service.

However, the French Administration considers that the number of frequencies made available in this way is not enough to permit countries to use a simple notification procedure without serious drawbacks.

The use, by all countries of the world and for the same purpose, of a very limited number of frequencies recorded in the Register with different dates further to the notification procedure would be a permanent source of serious disputes between Administrations which might lead eventually, as the result of complaints of harmful interference, to the point where some of them are forbidden to use the frequencies in question.

In any case, such a procedure would lead to a notification race.

Furthermore, the deletion of Appendix 25 would lead to the disappearance of rights which had been recognized in respect of countries that have not yet been able to notify the corresponding assignments.

It is quite certain that the use of a small number of frequencies by a large number of countries, under the best possible conditions, can be based only on reciprocal tolerance, which leads quite naturally to the idea of a plan.

However, the evolution of frequency management shows that planning procedure is a more elaborate process than the mere notification procedure.

Hence, the French Administration considers that the Conference should do its utmost to prepare a revised allotment plan (new Appendix 25) which would take both past allotments and new requirements into account.

As regards the technical bases to be considered in revising the allotment plan, the Conference could draw guidance from the standards used by the I.F.R.B. for examining frequency notices. F/10(186) (cont.)

Ref.

The French Administration feels that the Maritime Conference is in a position to revise Appendix 25. For this purpose it proposes :

- 1. A working document entitled "Procedure for the revision of Appendix 25" (Annex I).
- 2. A draft resolution (Annex II) relative to the conditions for the recording in the Master International Frequency Register :
 - a) of allotments appearing in Appendix 25 (1959) and of entries relative to frequency assignment notices effected in accordance with the present Appendix;
 - b) of new allotments and entries relative to frequency assignment notices which do not come under the above category.
- 3. Draft amendment of the pertinent portions of Article 9 of the Regulations, concerning action to be taken by the I.F.R.B. on frequency notices other than those referred to in the preceding point.

F/10(186)

(cont.)

PROCEDURE FOR THE REVISION OF APPENDIX 25

TO THE RADIO REGULATIONS

(Working Document)

The preparation of a new frequency allotment plan for the maritime mobile HF radiotelephone service will lead the Conference to consider in turn the old allotments appearing in Parts I and II of Appendix 25 (1959) plus all requirements which do not correspond to an allotment contained in this appendix. These requirements will be referred to hereinafter as "other requirements".

A. Old allotments

A.1 In an initial stage, the Conference will invite all Administrations having one or more DSB channel allotments in Part I of Appendix 25 (1959) to keep for each of these channels, under the new allotments contained in the amended plan, only one SSB channel corresponding, in the amended Appendix 17, either to the upper half or to the lower half of the DSB channel of Appendix 17 (1959).

These countries will also appreciably reduce the load on the other half-channel by stopping all traffic on it by the end of the transitional period at the latest (1). The choice may be made unilaterally by each Administration concerned, but it would appear to be very desirable for all the Administrations using one and the same allotment to agree on this matter.

The Conference should fix a deadline for this first phase to ensure that its work is not delayed.

A.2 Countries having an allotment under Part II of the plan (Appendix 25 - 1959) will do the same. However, this choice will lead to an allotment under Part II of the new plan only if the procedure outlined below under Section B does not cause the Conference to transfer the allotment in question to Part I of the new plan.

Unless the Conference decides that the power must be changed for a given allotment, the number expressing the maximum power (peak power) of each of the allotments shall be twice the number expressing the mean power in the old plan (Appendix 25 - 1959).

⁽¹⁾ This does not exclude the possibility of supplementary allotments for other requirements, as mentioned under Section B below.

<u>Ref</u>.

F/10(186) (cont.)

Hence, the new allotment plan will first contain the SSB channel allotments resulting from the above procedure.

B. Other requirements

In a second stage, the Conference will continue the preparation of an allotment plan basing itself on the following rules :

B-1 Account will be taken of allotments already made under Section A above.

B-2 Requirements which it had been possible to meet in 1959 only by an allotment in Part II of the plan (Appendix 25 - 1959) will first be examined with a view to their transfer, where possible, to Part I of the new Plan.

B-3 Considering that the most urgent (new or supplementary) requirements have been or will be expressed by a frequency assignment notice, the Conference will continue the preparation of the allotment plan taking as a basis for requirements to be met :

In the first place :

Frequency notices sent to the I.F.R.B. between 3 December 1951 and 26 February 1967 giving rise to an entry in the M.I.F.R. with a date later than 4 December 1951 in column 2 b).

Frequency notices which were within the limits of an allotment appearing for an Administration in Appendix 25 (1959) but which were accessory assignments to main DSB assignments considered in the first phase of the work (Section A above).

Then the assignments notified to the I.F.R.B. since 26 February 1967 and the requirements expressed at the present Conference before *)....

The attached draft resolution indicates the changes which will be made by the I.F.R.B. in the entries appearing at present in the Master International Frequency Register or which will appear therein on the date when the Final Acts of this Conference come into force. These amendments concern :

*) Date to be fixed by the Conference (as close as possible to its opening date).

F/10(186) (cont.)

- allotments in the old and the new plans,
- assignments in accordance with the old allotment plan (1959),
- assignments not in accordance with the old allotment plan (1959)
 but which have led to an allotment in the new plan,
- assignments not in accordance with the old plan (1959) and which cannot have led to an allotment in the new plan (1967) on behalf of the notifying country but which are in accordance with the other provisions of the Regulations (Appendices 17 and 17 bis)^{*}),
- assignments with all the characteristics specified above, but not in accordance with the other provisions of the Regulations (Appendices 17 and 17 bis).

*) See proposal F/8(51).

HOL/80(34)

CONSEQUENTIAL REVISION OF APPENDIX 25

It is considered that both the retention of Appendix 25 in its present form and the establishment of a new plan for radiotelephone coast stations will be practically impossible. In view of :

- a) the short time available to the Conference;
- b) the lack of sufficient technical data; and
- c) the impracticability of establishing in 1967 a plan which would not become effective until the end of the conversion period (1 January, 1977);

the Netherlands Administration proposes to abrogate Appendix 25 to the Radio Regulations and to deal with frequency assignments to radiotelephone coast stations operating in the HF bands under the normal procedure provided for in Article 9 of the Radio Regulations.

During the period of conversion to single sideband operation the notification and recording of frequency assignments should take place in accordance with a suitable procedure, which also contains provisions to be applied to those assignments to radiotelephone coast stations already recorded in the Master Register. It is proposed that such an interim procedure should be established in the form of a Resolution.

Withdraw Appendix 25 from the Radio Regulations

(See Document Nº 33)

Delete Appendix 25

It is proposed that Appendix 25 to the Radio Regulations Geneva, 1959, be abolished, and in consequence of abolishing Appendix 25, the relevant provisions of the Radio Regulations be revised as follows. In view of the above, a resolution related to the processing of frequency assignment notices is proposed.

Reasons :

1. Since 1959 when the Geneva Conference established the present Appendix 25, the Members of the I.T.U. have increased 31 in number from 101 to present 132 Therefore, with respect to the frequency allotment plan for the coast radiotelephone stations contained in Appendix 25, it may well be expected that new requirements will be made by these newly increased Members.

2. Moreover, it is considered that, even among the Members who participated in the Geneva Conference in 1959, there are not a few countries which are under the necessity of new frequency allotment or feel keenly the shortage in the frequency allotment plan.

3. Therefore, it is not considered appropriate that the frequency allotment plan contained in Appendix 25 should be left as it is.

4. On the one hand, out of the frequency allotment plan contained in Appendix 25, some individual allotments may never be brought into use and are still recorded in the Master Frequency Register under prior protection.

5. On the other hand, now that the conversion of DSB to SSB has been assured of possible realization under the present circumstances, the schedule of transition to SSB system is expected to be put under study at this Conference. Accordingly, with respect to the communication channels contained in Appendix 25 also, it is expected that the same number of communication channels be created in the same manner as seen in the SSB conversion.

6. Therefore, viewed in the light of not only effective utilization of communication channel but also of meeting the demand of the Members, with respect to the frequencies for coast radiotelephone stations also, we should like to assign them in accordance with the general rules for frequency assignments, as in the case of the frequency assignments to coast radiotelegraph station. In view of the foregoing, the abolition of Appendix 25 is proposed.

1/33(17)

J/86(44)

MDG/47(1)

The Administration of the Malagasy Republic has no specific proposals to make concerning the work of the forthcoming World Administrative Radio Conference.

However, should the Conference decide to revise Appendix 25 to the Radio Regulations, the Malagasy Administration would request that account be taken of :

- 1) the frequencies already allocated to the Malagasy Republic in the 4-8 and 12 Mc/s bands, appearing in the Frequency Allotment Plan for Coast Radiotelephone Stations;
- 2) new frequency requirements in the 16 and 22 Mc/s bands (one frequency per band).

USSR/50(6)

It is proposed that Appendix 25 be maintained, but adjusted to take into account the wishes of administrations and the , projected transfer to single-sideband operation, keeping strictly to the planned allocation of frequencies for coast radiotelephone stations.

Once the transfer to single-sideband operation has been completed, Appendix 25 should again be revised in order to redistribute single-sideband channels among the various countries.

Comments

In view of positive experience gained in the use of frequencies for coast radiotelephone stations, in accordance with Appendix 25 to the Radio Regulations (Geneva 1959), the Soviet Administration considers that planned system for the use of frequencies by these stations must be retained. In this connection, it is considered that some essential corrections must be made to Appendix 25, in accordance with the wishes of administrations, and provision made therein for the prospective use of singlesideband operation. After the conversion to single-sideband operation has been completed, Appendix 25 will have to be reviewed once more in order to redistribute single-sideband channels among the various countries. <u>Ref</u>. USA/18(28)

Agenda Item 3 :

Consequential revision of Appendix 25

U.S. Proposal :

- a) Delete Appendix 25
- b) Consequential amendment of Article 9
- c) Resolution covering the interim procedure during the transition period.

Reasons :

To provide an equitable and efficient means of meeting growing requirements for frequencies in the international maritime mobile radiotelephone service, anticipating eventual and exclusive use of single sideband (SSB) emissions.

Background :

The deletion of Appendix 25 and conversion to single sideband will require the preparation of instructions to the I.F.R.B. in regard to the handling of notifications received by the I.F.R.B. during the interim period. The United States has under study such a procedure, which will be submitted to the Conference.

Revision of Appendix 25 would present a complex problem if existing and foreseen additional requirements not now included in the Appendix were to be accommodated. The original allotment plan was contained in Volume VI of the Final Acts of the 1951 Geneva Extraordinary Administrative Radio Conference. The plan was revised at the 1959 Geneva Radio Conference to reflect channel allotments designated at that Conference. Additionally, it was annexed to the Radio Regulations as Appendix 25. In taking this action, the Conference perpetuated the 3 and 4 December 1951 dates. New allotments received either a date of 3 December 1951, in Column 2a of the International Frequency List, or a date of 4 December 1951, in Column 2b of the I.F.L., depending on whether they were inserted in Section I or Section II of Appendix 25. However, some allotments appearing previously in Volume VI, Section II, of the Final Acts of the 1951 Geneva E.A.R.C. were transferred to Appendix 25, Section I, with a column 2a date of 3 December 1951. The remaining original allotments were transferred from Volume VI to their respective Sections of Appendix 25 without change. If Appendix 25 were again to be modified by the forthcoming Conference, it presumably would add a new series of allotments in Sections I and II, and perhaps in a new Section III.

Ref.

(cont.)

The disadvantages of retaining Appendix 25 would be several. First, if the allotment plan were to be amended, new allotments would be superimposed on the previous allotments. While the original allotment plan was based on engineering considerations, emphasis would be placed eventually on the necessity for providing for all indicated requirements whether active or not, recognizing that some individual allotments may never be brought into use. It is obvious that there are not enough channels to meet all needs if each country were to be represented equally in the plan, noting that there are now 131 Members of the I.T.U. as compared with 101 in 1959 when the last revision to Appendix 25 was made.

In addition to perpetuating an out-dated allotment plan, its retention would mean that new stations activated between conferences must be relegated to Column 2b date status in the International Frequency List (I.F.L.) until such time as the Appendix is revised by a duly authorized conference. Then, based on past procedure, every new operation would be given the same date in Column 2a or 2b regardless of when each individual station comes into existence. Therefore, the allotment plan eventually would become composed of at least two priority groups, i.e. those with a date of 3 or 4 December 1951 and perhaps a third group with some agreed upon later date. Under the group priority system, a station bearing a date of 4 December 1951, for example, which was not activated until 1967 would have equal priority with all other stations with the same priority date, including those which may have been activated as early as 1952.

This proposal recognizes the precedent established by the 1959 Geneva O.A.R.C. when, for similar reasons, it abolished the coast telegraph allotment plan developed by the 1951 Geneva E.A.R.C., instituted Article 9 procedures for dealing with new assignments, and directed the Board to list in the I.F.L. with a Column 2a date based on the date of notification, those coast telegraph station assignments not included in the original plan but found satisfactory after technical examination. Accordingly, the same procedure is proposed for disposing of Appendix 25, to give recognition to out-of-plan stations new in operation, and to provide for future needs in an orderly fashion under Article 9.

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Proposals relating to Article 4 of the Additional Radio Regulations (AR)

Charges for Radiotelegrams N° 2031, 2040, 2054 and 2059

Address of Radiotelegrams

2005 § 1. (1) The address of radiotelegrams destined for mobile stations must be as complete as possible and must include :

2006	· a)	the name or the designation of the addressee, with supplementary particulars, if necessary;
2007	b)	in the case of a ship station, the name of this station separated from the name of the station by a fraction bar, as shown in the List of Ship Stations;
2008	<i>c)</i>	in the case of an aircraft station the call sign or other identification, as it appears in No. 2011;
2009	d)	the name of the land station through which the message is to be forwarded, as it appears in the appropriate list of stations.
2010	(2) If t	he shin does not annear in the List of Shin Stations, the

- 2010 (2) If the ship does not appear in the List of Ship Stations, the sender should, if possible, indicate the nationality and route followed by the ship.
- 2011 (3) However, the name and call sign required under Nos. 2007 and 2008 may be replaced, at the risk of the sender, by particulars of the passage made by such mobile station, indicated by the names of the ports or airports of departure and of destination, or by any equivalent indication.

ARTICLE 4

Charges for Radiotelegrams

Section I. General. Full-rate Radiotelcgrams

- 2025 (3) The maximum land station charge is 0.60 gold franc (sixty centimes) per word; the maximum ship or aircraft charge is 0.40 gold franc (forty centimes) per word. Administrations shall notify to the Secretary General the rates fixed by them.
- 2026 (4) Each administration, however, reserves to itself the right to fix and authorize a land station charge higher than the maximum charge indicated in No. 2025 in the case of land stations which are exceptionally costly on account of their installation or working.
- 2031 § 6. Additional charges collected by offices of origin or mobile stations for multiple radiotelegrams (see No. 2115) and radiotelegrams to be delivered by post (direction ship or aircraft to land, see No. 2116) are the charges fixed by the Telegraph Regulations.
- 2040 § 11. The land station or ship or aircraft station charges for radiotelegrams concerning stations not yet included in the appropriate list of stations are fixed, as part of its duties, by the office which collects the charge. The ship or aircraft station charges pertaining to radiotelegrams intended for mobile stations the names or call signs of which are replaced by the indication of the route followed or by any other equivalent indication (see No. 2011), are also fixed, as part of its duties, by the office which collects the charge. They are the normal rates notified by the administration in question or, in the absence of such notification, they are the maximum charges prescribed in No. 2025.

Proposals relating to

Article 4 of the AR

(continuation)

C. Meteorological Radiotelegrams

- 2053 § 15. (1) The term "meteorological radiotelegram" denotes a radiotelegram consisting solely of meteorological observations or meteorological forecasts, which is sent by an official meteorological service or by a station in official relation with such a service, and addressed to such a service or to such a station.
- 2054 (2) Meteorological radiotelegrams must bear the paid service indication = OBS = before the address. This paid service indication is the only one admitted.

D. Press Radiotelegrams

- 2058 § 17. The minimum number of chargeable words for press radiotelegrams shall be fixed at fourteen.
- 2059 § 18. (1) The land station and ship or aircraft charges are reduced by 50 per cent for press radiotelegrams originating in a ship or aircraft station and destined for places on land. These radiotelegrams are subject to the conditions of acceptance laid down in Articles 65 to 69 of the Telegraph Regulations (Geneva Revision, 1958). For those radiotelegrams which are addressed to a destination in the country of the land station, the telegraph charge to be collected is one-half of the telegraph charge applicable to an ordinary radiotelegram.
- 2060 (2) Press radiotelegrams destined for a country other than that of the land station are subject to the press rate in force between the country of the land station and the country of destination.

(Proposals made under paragraph I, sub-paragraph 2 of Administrative Council Resolution No. 590 which do not come under any of the items 1 to 7)

Additional radio regulations

Article 4

F/110(108)

Ref.

2031

Reasons :

SUP

It seems desirable to insert the provisions of this number under Article 7 AR. See proposal relative to No. 2117A.

F/110(109)

2040

Replace the last sentence of this number by the following :

They are the normal rates notified by the Administration(s) in question or, in the absence of such notification, they are the maximum charges prescribed in No. 2025.

Reasons :

MOD

To make the text clearer.

F/110(110)

2054

Replace by the following :

Meteorological radiotelegrams must bear the service instruction "OBS" at the beginning of the preamble and the paid service indication "OBS" before the address.

Reasons :

MOD

To mention the insertion of the service instruction "OBS" at the beginning of the preamble (see Article 41 RTg)

Delete.

Ref.

F/110(111)

Under the heading : D. Press Radiotelegrams, insert No. 2057 A as follows :

Press telegrams from a mobile station to the mainland shall be admitted as press radiotelegrams.

<u>Reasons</u> :

ADD

2057A

To indicate the essential condition for the acceptance of press radiotelegrams.

F/110(112) MOD 2059 Replace the first sentence by the following : The land station and ship or aircraft charges are reduced by 50%.

Reasons :

A consequence of the addition of No. 2057A.

Proposals relating to Article 7 of the AR

Special Radiotelegrams. Paid Service Indications

N° 2108, 2109, 2112, 2118 - 2122

udh hau si b

ARTICLE 7

Special Radiotelegrams. Paid Service Indications

- 2107 § 1. The following special radiotelegrams are admitted provided the administrations concerned accept them :
- 2108 a) Press radiotelegrams originating in mobile stations and destined for the land.
- b) Meteorological radiotelegrams (= OBS =).
- c) Paid service advices. These are forwarded, as far as practicable, by the same route as that of the original radiotelegram. In the case of diversion (for example, in case of interruption or where the mobile station proceeds beyond the service area of the land station which has acted as intermediary for the transmission of the original radiotelegram) they bear the indication "dévié" and particulars of the route followed by the original radiotelegram.
- 2111
- d) Urgent radiotelegrams, but only over the general network of telecommunication channels.
- e) Radiotelegrams with prepaid reply. The reply voucher issued on board a mobile station gives the right to send up to its value a radiotelegram to any destination, but only from the mobile station which issued the voucher. When the charge for a radiotelegram paid for by voucher exceeds the value of the voucher, the excess charge must be paid by the sender using the voucher.
- *f)* Radiotelegrams with collation.
- 2114 g) Radiotelegrams with notification of delivery destined for mobile stations, but only as far as concerns the notification to the telegraph office of origin of the date and time at which the land station has transmitted the radiotelegram to the mobile station of destination.
 - 2115 h) Multiple radiotelegrams.
 2116 i) Radiotelegrams to be delivered by express or by post (from ship or aircraft to land).
 2117 j) De luxe radiotelegrams (subject to the conditions laid down in Article 60 of the Telegraph Regulations,
 - Geneva Revision, 1958).
 2118 k) Radiotelegrams to be retransmitted by one or two mobile stations at the sender's request (= RM =).
 - 2119 *l*) Radiomaritime letters and radio air letters.
 - 2120 m) Radiotelegrams concerning persons protected in time of war by the Geneva Conventions of August 12, 1949 (= RCT =).
 - 2121 n) Radiotelegrams to be delivered to the addressee in person.
 - 2122 § 2. In addition, the following paid service indications shall be permitted in radiotelegrams: = GP =, = GPR =, = TR =, = TFx = (from ship or aircraft to land), = TLXx = (from ship or aircraft to land), = Jx = (from land to ship or aircraft), = Réexpédié de x = (only when the charge for forwarding can be collected), = Jour =, = Nuit =, = Etat Priorité Nations =, = Etat Priorité =, = Etat =, = Remettre x = (from ship or aircraft to land).
 - 2123 § 3. Radiotelegrams are not admitted as letter telegrams. Radiotelegrams to follow the addressee at the request of the sender are also not admitted.

Ref.	·		Article 7			
F/110(113)	MOD	2108	Replace this number by the following :			
			a) Press radiotelegrams in thé conditions specified in Nos. 2057A to 2060.			
	<u>Reasons</u> : To specify the numbers concerned of the Regulations. See also the proposal relative to No. 2057A.					
. * · · ·	•	•				

F/110(114)

MOD

2109

Replace this number by the following :

b) Meteorological radiotelegrams in the conditions mentioned in Nos. 2053 to 2057.

Reasons:

To specify the numbers concerned of the Regulations.

F/110(115)

2112 Delete the last sentence.

Reasons :

MOD

ADD

Repetition of No. 496 RTg which has become superfluous (see No. 2001.AR)

F/110(116)

2117A

Add the following text :

The supplementary charges levied by the offices of origin or by mobile stations for the special radiotelegram category mentioned in Nos. 2110 to 2117 inclusive shall be the charges specified in the Telegraph Regulations.

Reasons :

A consequence of the deletion of No. 2031 AR.

Ref.		
F/110(117)	MOD	2118 Insert the following phrase at the end of this number :
		(in the conditions specified in Nos. 2152 to 2154).
	<u>Reasons</u> :	
		To specify the numbers concerned of the Regulations.
F/110(118)	MOD	2119 Insert the following phrase at the end of this number:
		(in the conditions specified in Article 6 AR).
	Reasons :	
		To specify the Article concerned of the Regulations.
F/110(119)	MOD	2120 'Insert the following phrase at the end of this number :
		(in the conditions specified in Nos. 2061 and 2062).
	<u>Reasons</u> :	
		To specify the numbers concerned of the Regulations.
F/110(120)	SUP	2121 Delete this number.
	<u>Reasons</u> :	
		Radiotelegrams to be delivered to the addressee in
	The paid	not constitute a special category of radiotelegrams. service indication = MP = merely indicates a particular delivery.
F/110(121)	MOD	2122 After = GPR =, insert the paid service indication = MP =.
	<u>Reasons</u> :	
		See proposal relative to No. 2121.

Proposals relating to Article 8 of the AR

.

Period of Retention of Radiotelegrams at Land Stations

N° 2126, 2127, 2130 and 2131

ARTICLE 8

Period of Retention of Radiotelegrams at Land Stations

Section I. Radiotelegrams destined for Ships at Sea

- 2124 § 1. (1) The sender of a radiotelegram destined for a ship at sea may specify the number of days during which the coast station may hold the radiotelegram.
- 2125 (2) In that case, the sender writes before the address the paid service indication = Jx = (x days) specifying the number of days (ten at the most) exclusive of the day of handing-in of the radio-telegram.
- 2126 § 2. When it has not been possible for a land station to transmit to a ship station
 - a) a radiotelegram bearing the paid service indication = Jx = within the prescribed period, or
 - b) a radiotelegram not bearing this service indication within a period of three days following the date of handing-in,

the coast station informs the office of origin, which notifies the sender. The sender of the radiotelegram may then ask, by paid service advice, addressed to the coast station, either that his radiotelegram be cancelled as regards the section between the coast station and the ship station or that further attempts at transmitting it to the ship station be made during a period of another seven days at the most. Failing such a request, the radiotelegram is treated as undelivered by the coast station three days after the dispatch of the advice of non-transmission. The office of origin shall be immediately advised if the coast station transmits the radiotelegram during the last-mentioned period of three days. The same shall apply if the coast station transmits the radiotelegram during the additional period which may have been requested by the sender.

- 2127 § 3. On the morning of the day following that day on which a radiotelegram to a ship station is treated as undelivered by the coast station, the latter shall advise the office of origin which notifies the sender. The coast station and ship station charges and the charges for the special services not performed may be refunded to the sender.
- 2130 (2) The coast station which carries out the redirection by wire alters the address of the radiotelegram by placing after the name of the ship station that of the new coast station charged with the transmission and inserting at the end of the preamble the service instruction "redirected from x Radio" which must be transmitted throughout the course of the radiotelegram.
- 2131 (3) If, within the limits of the requisite period of retention of radiotelegrams, the coast station which has redirected a radiotelegram to another coast station is subsequently in a position to transmit the radiotelegram direct to the mobile station of destination, it does so by inserting the service instruction "ampliation" before the preamble. It shall then transmit to the coast station to which the radiotelegram had been redirected a service notice informing the latter of the transmission of the said radiotelegram.

Ref.

F/110(122)

2126

Replace the sixth and seventh lines by the following :

.... up to the morning of the fourth day following the date of handing in.

Reasons :

To specify the date on which the coast station must inform the office of origin that a radiotelegram has not been transmitted. The present drafting may be interpreted in different ways.

> (thirteenth line - amendment concerning the French text only)

Eighteenth line : after " advice of nontransmission" add the following sentence :

The same applies upon the expiry of any delay which may have been requested by the sender, if it has been impossible to reach the ship.

Reasons :

A necessary clarification.

F/110(123)

2127

Fifth line of this number :

Replace "may be refunded" by "shall be refunded".

Reasons :

MOD

Alignment with No. 919 RTg.

F/110(124)

2130 MOD

First and second lines :

Delete " by wire".

Reasons :

This information is superfluous.

Fourth line :

Replace : "inserting" by "adding".

Reasons :

ADD

To make the drafting more accurate.

F/110(125)

2130A

Add the following text :

Upon cancellation of a radiotelegram, either at the request of the sender or ex officio, land charges, ship charges, and any charges for special services not provided shall be refunded.

Reasons :

Necessary clarification. The same procedure is applied regarding the refund for radiotelegrams treated as undelivered (No. 2127) and radiotelegrams cancelled in accordance with No. 2129.

F/110(126)

2131

Fifth line :

Replace "service instruction" by "service indication".

<u>Reasons</u>:

2126

MOD

"Ampliation" is a service indication. See No. 395 RTg.

G/67 (82) MOD

b) a radiotelegram not bearing this service indication within a period of two days following the date of handing-in.

Reasons :

To provide for an earlier advice of radiotelegrams not transmitted to a ship station.

Proposals relating to Article 9 of the AR

Doubtful Reception. Ttansmission by "Ampliation". Long-distance Radiocommunications

N° 2144 and 2151

2144 § 2. When a mobile station subsequently transmits a radiotelegram thus held to the land station which incompletely received it, this new transmission must bear the service instruction "ampliation" in the preamble of the radiotelegram. If the radiotelegram is transmitted to another land station subject to the same administration or the same private enterprise, the new transmission must bear the service instruction "ampliation via ... " (insert here the call sign of the land station to which the radiotelegram was transmitted in the first instance) and the administration or private enterprise in question may claim only the charges relating to a single transmission. The "other land station" which thus forwards the radiotelegram may claim from the mobile station of origin any additional charges resulting from the transmission of the radiotelegram over the general network of telecommunication channels between itself and the office of destination.

2151 (4) Each administration designates the long-distance land station or stations for which its mobile stations keep watch.

F/110(127)

MOD 2144

Third and seventh lines :

Replace : "service instruction "ampliation" " by "service indication 'ampliation'"

Reasons :

See proposals relative to No. 2131.

F/110(128)

2151

Replace this number by the following :

Each administration designates the land station or stations participating in the long-distance radio service.

<u>Reasons</u> :

MOD

To make the text clearer.

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Proposals relating to Article 10 of the AR

Retransmission by Mobile Stations

Nº 2152 and 2157

ARTICLE 10

Retransmission by Mobile Stations

Section I. Retransmission at the Request of the Sender

2152 § 1. Mobile stations shall, if the sender so requests, serve as intermediaries for the exchange of radiotelegrams originated in or destined for other stations of the mobile service; the number of intermediary mobile stations is, however, limited to two.

Section II. Routine Retransmission

- **2155** § 4. (1) When a land station cannot reach the mobile station for which a radiotelegram is destined and no payment for retransmission of the radiotelegram has been deposited by the sender, the land station may, in order to forward the radiotelegram to its destination, have recourse to the help of another mobile station provided that the latter consents. The radiotelegram is then transmitted to this other mobile station. The help of the latter is given free of charge.
- **2156** (2) The same provision is also applicable to traffic from mobile stations to land stations, when necessary.
- 2157 (3) The station assisting in the free retransmission in accordance with the provisions of Nos. 2155 and 2156 must enter the service abbreviation QSP..... (name of the mobile station) in the preamble of the radiotelegram.

Ref.

F/110(129)

MOD

2152

Replace this number by the following :

Mobile stations shall, if the sender so requests, serve as intermediaries for the routing of radiotelegrams; the number of intermediary mobile stations is, however, limited to two.

<u>Reasons</u> :

To make the text more accurate. The present drafting seems to limit retransmission to radiotelegrams from or to other mobile stations.

F/110(130)

2157

Third and fourth lines :

Replace :

".... in the preamble" by

".... at the end of the preamble".

Reasons :

MOD

Drafting clarification.

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Proposals relating to Article 11 of the AR

Advice of Non-Delivery

Nº 2160

ARTICLE 11

Advice of Non-Delivery

- 2159 § 1. When, for any reason, a radiotelegram originating in a mobile station and destined for a place on land cannot be delivered to the addressee, an advice of non-delivery is addressed to the land station which received the radiotelegram. After checking the address, the land station forwards the advice, when possible, to the mobile station, if necessary, by way of another land station of the same country or of a neighbouring country, as far as existing conditions or special agreements permit.
- **2160** § 2. When a radiotelegram received at a mobile station cannot be delivered, that station so informs the office or mobile station of origin by a service advice. In the case of a radiotelegram originating on land, this service advice is sent, whenever possible, to the land station through which the radiotelegram passed or, if necessary, to another land station of the same country or of a neighbouring country, as far as existing conditions or special agreements permit.

Ref,

G/67(83) MOD

g2. When a radiotelegram received at a mobile station cannot be delivered, that station so informs the office or mobile station of origin by a service advice. In the case of a radiotelegram originating on land, this service advice is sent, whenever possible, to the land station through which the radiotelegram passed, or, if necessary, to another land station of the same country, or of a neighbouring country quoting the name or call sign of the station from which the radiotelegram was received, as far as existing conditions or special arrangements permit.

Reasons :

2160

To ensure that advices of non-delivery of a radiotelegram, or query on a radiotelegram, is routed back to the station from which it was received by the mobile station.

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Proposals relating to

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the Recommendation N° 22

relating to an International Radiotelephone Code for the Maritime Mobile Service

(pages 567 - 595 of the R.R.)

In view of the lenght of Recommendation \mathbb{N}^2 22, we considered that it was not essential to reproduce the present text.

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HOL/74(20)

SUP

RECOMMENDATION No. 22

Reasons :

Since the revised International Code of Signals is to be used for all means of communication, there is no further need for a separate radiotelephone code.

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Proposals relating to the Recommendation N° 27

relating to Hours of Service for Ship Stations



RECOMMENDATION No. 27

Relating to Hours of Service for Ship Stations

The Administrative Radio Conference, Geneva, 1959,

considering

- a) that the number of ship stations equipped to operate on frequencies in the authorized bands between 4 000 and 27 500 kc/s is increasing;
- b) that these bands are heavily loaded during single operator watch periods;
- c) that, in accordance with the provisions of Appendix 12, watch is maintained at the same times, on ship stations in four of the zones, thus causing peak loading of the calling and working bands during single operator watch periods;
- d) that this uneven loading in the bands between 4000 and 27 500 kc/s leads to prolonged calling and excessive waiting by ships;
- e) that more efficient use could be made of these bands if the hours of watchkeeping by single operator ship stations were staggered;

recommends

1. that administrations should study the problem of watchkeeping by ship stations with a view to achieving a more even traffic loading of the bands between $4\,000$ and $27\,500$ kc/s;

2. that administrations submit proposals to the next Administrative Radio Conference.

RFA/5(5) Delete Recommendation No. 27 of the Radio Regulations.

Reasons:

After the acceptance of proposals a) and b) Recommendation No. 27 becomes superfluous.

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Proposals relating to the Recommendation N° 30

relating to the Phonetic Figure Table

RECOMMENDATION No. 30

Relating to the Phonetic Figure Table

The Administrative Radio Conference, Geneva, 1959,

considering

- a) that in radiotelephone communications between stations normally using different languages there are, at present, no standard phonetic expressions for figures;
- b) that Appendix 16 to the Radio Regulations permits such figures to be expressed by means of the application of the phonetic letter equivalents, printed on the same horizontal line of the table, with the indication "as a number" spoken twice before and after such expressions;
- c) that this system of using letters for designating figures may lead to confusion;
- d) that in the aeronautical mobile service international civil aviation uses a phonetic figure table (see column A below) which is subject to modification as a result of speech tests still being carried out;
- e) that it has been agreed to evaluate the efficiency of a phonetic figure table (see column B below) in the "International Radiotelephone Code for Maritime Mobile Service" which itself is the subject of Recommendation No. 22;

believes

- a) that the adoption of a standard phonetic figure table is essential for the expression of figures between stations employing radiotelephony where different languages are normally used, especially in cases where the safety of life is involved;
- b) that the ideal solution would be a phonetic figure table comprised of words or expressions, the pronunciation of which would be as identical as possible in the greatest number of languages and chosen to avoid any confusion with the words used in the phonetic letter table;

recommends

1. that administrations study this whole question, taking into account the existing and proposed phonetic figure tables, their evaluation, and any modifications which might be made to them, also the possibilities of developing a new table likely to meet with universal appeal;

Recommendation N° 30

(continuation)

2. that the result of their study should be communicated to the Secretary General for the information of the Members and Associate Members of the Union, well in advance of the next Administrative Radio Conference;

3. that at the next Administrative Radio Conference consideration be given to the adoption of a standard phonetic figure table for the use of all services in radiotelephone communications where language difficulties are likely to arise.

	Word to be used		
Figure	Α	B	
0	ZE-RO	ZERO	
1	WUN	WUN	
2	TOO	BIS	
3	TREE	TER	
4	FOW-ER	QUARTO	
5	FIFE	PENTA	
6	SIX	SAXO	
.7	SEV-EN	SETTE	
8	AIT	ОСТО	
9	NIN-ER	NONA	
Decimal point	DAY-SEE-MAL	DECIMAL	
Thousand	TOUS-AND		

HOL/74(21)

SUP

RECOMMENDATION No. 30

Reasons :

To be consistent with the proposed revision of Appendix 16.

RFA/7(19)

Delete Recommendation No. 30 of the Radio Regulations. (Geneva, 1959).

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Draft Resolutions by items of the agenda and in alphabetical order of the countries'

symbols

Item 1. The use of single sideband technique in the Maritime Mobile Service in the bands available to that service between 1605 and 4000 kc/s and in the exclusive HF Maritime Mobile Radiotelephone bands.

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Ref.

F/8(52 corr.)

DRAFT RESOLUTION No. 1.A RELATING TO THE TRANSFER OF INTER-SHIP FREQUENCIES IN THE BANDS BETWEEN 1605 AND 4000 kc/s WHEN THE SEPARATION BETWEEN ADJACENT ASSIGNED FREQUENCIES IS EQUAL TO 5 kc/s

The Maritime Conference (Geneva, 1967),

considering

a) that during and after conversion to SSB, each DSB channel will be occupied by two SSB channels, one in the upper half and the other in the lower half of the DSB channel;

b) that the SSB channels' must remain within the DSB channel limits but that the latter overlap with each other since the separation between adjacent assigned frequencies is less than the necessary bandwidth;

resolves

that in the bands between 1605 and 4000 kc/s the sub-division of the former DSB channels into two SSB channels for intership calls, when the separation between assigned frequencies is equal to 5 kc/s, shall conform to the following regulations concerning the carrier frequency arrangement and the necessary bandwidth:

1) the frequency assigned for SSB to a station working in the upper half of the DSB channel shall be 1.35 kc/s higher than the DSB carrier and the SSB carrier shall be equal to the DSB carrier (necessary bandwidth 2.7 kc/s)¹;

¹ These provisions could lead to limiting the receiver passband at audio frequencies to a value lower than 2.5 kc/s.

F/8(52 corr.) (cont.)

2) the frequency assigned for SSB to a station working in the lower half of the DSB channel shall be 1.15 kc/s lower than the DSB carrier and the SSB carrier shall be 2.5 kc/s below the DSB carrier (necessary bandwidth 2.7 kc/s)¹;

3) when an administration asks for an entry in its name in the register to be altered to bring it into line with the regulations set out in paragraphs 1) and 2) above, and provided the power, expressed as the peak envelope power for SSB emissions, is not more than twice the mean power previously notified, the I.F.R.B. shall make the required change so that the status of the assignment in question is maintained.

4) in the month following the date of * entries in the Master International Frequency Register relating to a double sideband assignment in the maritime mobile MF radiotelephone service shall be the subject of an I.F.R.B. questionnaire.

If, within 2 months, the notifying administration has not sent a reply or announced that it is continuing to use the frequency in accordance with the existing entry, or if the amendments proposed for the assignment are such that the entry does not conform to the regulations set out in paragraphs 1) and 2) above, a special symbol shall be inserted in column 13C, indicating that the entry is not in accordance with the rules adopted by the present Conference and that it has been maintained for information only.

¹ These provisions could lead to limiting the receiver passband at audio frequencies to a value lower than 2.5 kc/s.

Date one month after the entry into force of the definitive provisions concerning the use of single sideband emissions for maritime MF radiotelephony.

F/8(53 corr.)

DRAFT RESOLUTION NO. 1.B RELATING TO THE TRANSFER OF FREQUENCY ASSIGNMENTS IN THE BANDS ALLOCATED EXCLUSIVELY TO THE MARITIME MOBILE SERVICE BETWEEN 4000 and 23 000 kc/s FOR COAST RADIOTELEGRAPH STATIONS

(see diagram in Annex II)

The Maritime Conference (Geneva, 1967),

considering

a) that the transfer to slightly lower frequencies of frequency assignments to coast radiotelegraph stations in the HF bands allows a larger number of 2-frequency channels to be cleared for radiotelephone links;

b) that the transfer method proposed below strictly preserves the relative position of all assignments to coast stations, thus avoiding any new operating difficulties;

c) that the transfer affects only a few stations and does not involve large expenditure for the administrations;

recognizing

a) that re-arrangement of the frequency bands allocated to the maritime mobile service should be carried out in several stages and that the transfer of coast radiotelegraph station frequency assignments conditions any subsequent arrangements - and should therefore be one of the first phases of the re-arrangement;

b) that, in the bands under consideration, assignments to stations of the fixed service may be made by some countries in certain conditions, and that the proposed transfer must not lead to an aggravation in the conditions of use of the frequencies concerned;

resolves

1. that the assignments made to coast radiotelegraph stations in the bands :

4238		4368 kc/s
6357	-	6525 kc/s
8476	-	8745 kc/s
12 714		13 130 kc/s
16 9 52	-,	17 290 kc/s
22 400	-	22 650 kc/s

and entered in the Master International Frequency Register on the date of entry into force of the provisions contained in the Final Acts of this conference shall be transferred as follows :

Ref.

F/8(53 corr.) (cont.)

- any frequency assignment f in the 4238 - 4368 kc/s band shall be transferred to the frequency f - 7 kc/s;

- any frequency assignment f in the 6357 6525 kc/s band shall be transferred to the frequency f - 11 kc/s;
- any frequency assignment f in the 8476 8745 kc/s band shall be transferred to the frequency f - 14 kc/s;
- any frequency assignment f in the 12 714 13 130 kc/s band shall be transferred to the frequency f - 21 kc/s;
- any frequency assignment f in the 16 952 17 290 kc/s band shall be transferred to the frequency f - 28 kc/s;
- any frequency assignment f in the 22 400 22 650 kc/s band shall be transferred to the frequency f - 30 kc/s.

2. At x hours GMT on * administrations shall change the transmitting frequencies of their radiotelegraph stations in accordance with the rules mentioned above and shall notify the I.F.R.B. of the changes made.

3. Provided no characteristic other than the designation of the transmitting frequency has been changed, the I.F.R.B. shall enter the change requested in the Master International Frequency Register. The other details of the entry in particular the dates given in column 2 - shall not be altered.

4. Three months after * the I.F.R.B. shall send to any administrations which have not reported the transfer of frequencies assigned to their coast radiotelegraph stations an extract from the Master International Frequency Register showing the entries contained therein opposite their name, relating to stations of this category, accompanied by a reminder of the provisions of this resolution.

5. Two months after the despatch of these extracts, the I.F.R.B. shall re-examine any assignments contained in the Master Record in respect of which a change making the assignments in question conform with the present resolution has not been notified by the countries concerned; this re-examination shall be made as though the notification appearing in the Master Register had been sent to the I.F.R.B. on the date of the examination.

The Master Record shall be amended in the light of the findings reached by the Board.

^{*} Date to be fixed by the Conference; it should, in the view of the French Administration, be as soon as possible after the date on which the Final Acts of the Conference come into force.

F/8(53 corr.) (cont.)

Ref.

6. Administrations under whose name frequency assignment notifications have been entered in the Master Record under Nos. 209, 211 or 213 of the Radio Regulations (Geneva, 1967) may, within the limits of the bands mentioned in the aforementioned numbers, make any frequency changes they consider necessary to prevent the assignments concerned being subjected to increased interference or causing more interference to stations of the maritime mobile service, or to reduce such interference.

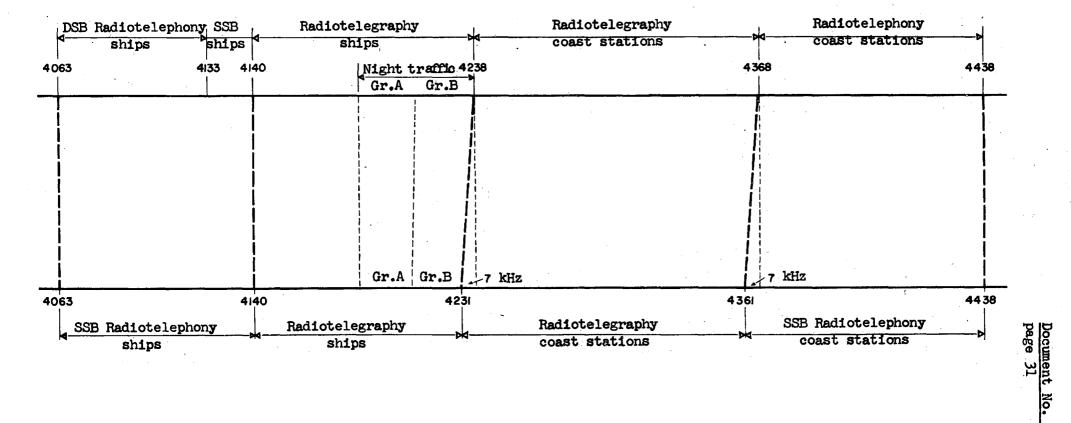
7. When the Board notices, further to the notification of such frequency changes, that results in accordance with paragraph 6 above have been obtained or if the change has been the result of direct coordination by all the administrations concerned, the relevant entries in the Master Record shall be amended as mentioned in paragraph 3) above.

ANNEX II

DISTRIBUTION OF FREQUENCY BANDS ALLOCATED TO THE MARITIME

MOBILE SERVICE BETWEEN 4 AND 27.5 MHz

(example in the 4 MHz band)



- 724

8-E

F/8(54)

DRAFT RESOLUTION 1.C -

- 725 -

INTERIM PROVISIONS GOVERNING THE ENTRY INTO FORCE OF THOSE PARTS OF THE RADIO REGULATIONS WHICH RELATE TO THE USE OF SINGLE SIDEBAND SYSTEMS FOR RADIOTELEPHONY IN THE

 $1605 - 2300 \, \text{kc/s}$ BANDS

(See diagram in Annex III.)

The Maritime Conference (Geneva, 1967),

decides

that the following interim provisions shall be applied :

Bands between 1605 and 4000 kc/s

- a) The installation of new double sideband equipment on board ships shall cease to be authorized on 1 January 1973.
- b) Coast stations open to public correspondence shall be capable of sending single sideband emissions, on at least one working frequency, from 1 January 1973.

Coast stations shall cease to send double sideband emissions on 1 January 1975.

- c) With the exception of the cases covered by Nos. 987 and 996, ship stations shall cease to send double sideband emissions on 1 January 1980.
- d) Whenever it is necessary to establish a radiotelephone communication, coast and ship stations equipped for single sideband emission must be capable of using class A3H on their working frequencies. This provision will cease to be compulsory on 1 January 1980.

II. Bands between 4000 and 23000 kc/s

a) Frequency assignments already notified for SSB emissions in accordance with the provisions of the Radio Regulations (Geneva, 1959) shall be transferred to the channels in the new Appendix 17**) on*).

The channels to which, on this date, the frequency assignments to those DSB stations due to remain in service, and to which the frequencies in the table in Appendix 17 had been assigned, will be as set out in the following table :

*) date of entry into force of the Final Acts of the present conference.

**) See Document No. 10, proposal F/10(61).

I.

Serial No.	New Serial
(1959 RR)	No.
1	2
2	4
3	6
4	8
5	10
6	12
7	14
8	16
9	18
10	20
11	22

- b) The installation of new double sideband equipment on board ships will cease to be authorized on*).
- c) Coast stations open to public correspondence shall be capable of sending single sideband emissions, on at least one working frequency, from*).

Double sideband emissions from coast stations shall cease on 1 January 1971.

d) Ship stations shall cease to send double sideband emissions on 1 January 1977.

e) Whenever it is necessary to establish a radiotelephone communication, coast and ship stations equipped for single sideband emission must be able to use class A3H on their working frequencies. This provision will cease to be compulsory on 1 January 1977.

Ref.

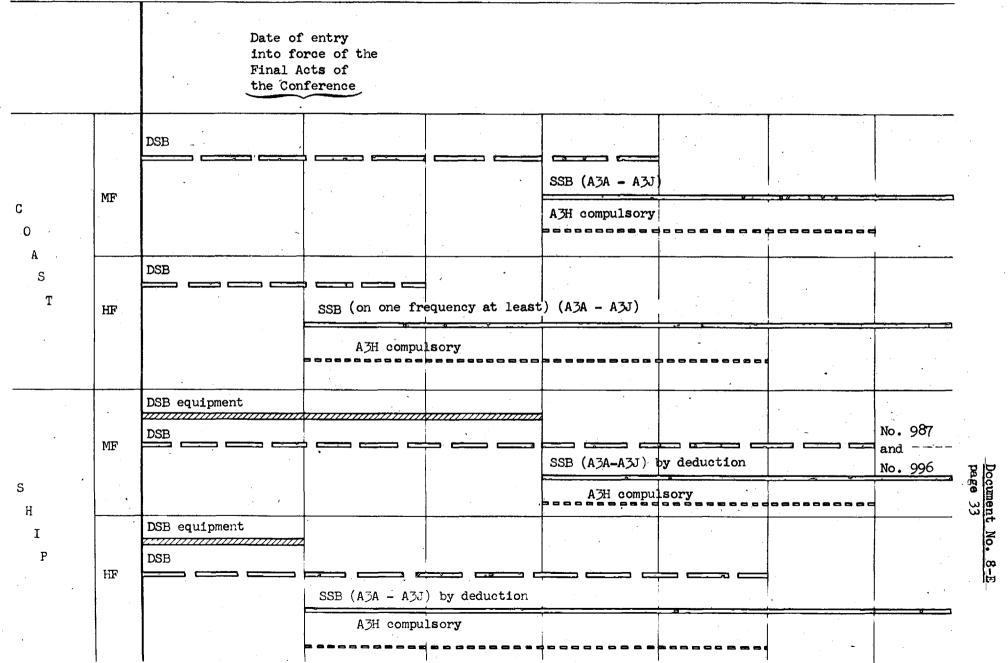
F/8(54) (cont.)

^{*)} date of entry into force of the Final Acts of the present conference.

ANNEX III

(Draft resolution)

Dates of conversion to SSB



727

Agenda Item 1 :

G/76(34)

RESOLUTION No. 1A

Relating to the dates of implementation for the conversion

to single-sideband operation of the double sideband

radiotelephone services in the maritime mobile bands

between 1605 and 23 000 kc/s

The Maritime World Administrative Radio Conference, Geneva, 1967,

considering

a) Recommendation No. 28 of the Administrative Radio Conference, Geneva, 1959,

b) Recommendation No. 3 of the Panel of Experts, established under Resolution No. 3 and Recommendation No. 37 of the same Conference;

c) Recommendation No. 258-1 of the C.C.I.R.,

decides

1. Bands between 1605 and 4000 kc/s (except 2182 kc/s)

- 1.1 that coast radiotelephone stations shall be capable of single sideband operation in the A3A or A3J mode on at least one frequency by 1st January, 1970;
- 1.2 that coast radiotelephone stations shall cease doublesideband operation (except for 2182 kc/s), and shall be equipped to use class A3H emissions in place of class A3 emissions, by 1st January, 1973;
- 1.3 that, with the exception of the cases covered by Nos. 987 and 996 of the Radio Regulations, the conversion of ship radiotelephone stations from doublesideband to single-sideband operation (A3A and A3J) shall commence not later than the 1st January 1970 and shall be completed by 1st January 1980;
- 1.4 that the use of class A3 and A3H emissions by ship radiotelephone stations and A3H emissions by coast radiotelephone stations shall cease (except for 2182 kc/s) by 1st January 1980.

Ref.

- 2.1 that coast radiotelephone stations shall be equipped for single sideband operation, A3H and either A3A or A3J emissions, and shall cease double-sideband operation by 1st January 1970;
- 2.2 that the conversion of ship radiotelephone stations from double sideband to single sideband operation (A3A and A3J) shall commence not later than the 1st January 1970, and shall be completed by 1st January 1977;
- 2.3 that the use of class A3 emissions by ship radiotelephone stations and class A3H emissions by coast radiotelephone stations shall cease by the lst January 1977;
- 2.4 that the provisions of 2.2 and 2.3 shall not apply to ship radiotelephone stations operating in accordance with Note c) of Appendix 3 of the Radio Regulations; these stations shall be treated as ship radiotelephone stations operating in the band between 1605 and 4000 kc/s (see 1.3 and 1.4).

Ref.

G/76(34)

(cont.)

2.

G/Add 76(62)

Ref.

RESOLUTION No. 1B

Relating to the conversion to single sideband operation of the double sideband radiotelephone frequencies assigned to the maritime mobile service in the bands between 1605-4000 kc/s assigned for communications between ships and coast stations

The Maritime World Administrative Radio Conference, Geneva, 1967,

considering,

a) that in the interests of economy in the use of the radio spectrum, each DSB channel should be sub-divided into two SSB channels, one in the upper and the other in the lower half of the DSB channel;

b) that the bandwidth occupied by the two SSB channels should not exceed that of the DSB channel;

c) the desirability of retaining the same registration (column 2) date for the two SSB channels as that of the corresponding DSB channel;

d) the need to meet, as far as possible, the provisions of RR No. 114, bearing in mind the procedure laid down in RR No. 534;

noting

a) Recommendation 258-1 of the C.C.I.R. in respect of the transmitter audio-frequency bandwidth (350 - 2700 c/s);

b) that operational efficiency should be improved by the use of a transmitter audio-frequency bandwidth of 250 - 2400 c/s;

decides :

that in the bands between 1605 - 4000 kc/s each DSB channel be sub-divided as follows :

1) a station operating in the upper half of the channel shall use the upper sideband derived from a nominal carrier frequency 100 c/s above the original DSB carrier frequency;

2) a station operating in the lower half of the channel shall use the upper sideband derived from a nominal carrier frequency 2.90 kc/s below the original DSB carrier frequency;

3) the transmitter audio-frequency band shall be 250 to 2400 c/s, with a permitted amplitude variation of 6 db.

Ref.

Agenda Item 1 :

0/76(35)

RESOLUTION No. 1C

Relating to the study of the problems concerning the application of single-sideband techniques on the international distress and calling frequency 2182 kc/s

The World Administrative Radio Conference, Geneva, 1967,

considering

a) that, except for 2182 kc/s, the conversion to SSB operation of the DSB maritime mobile assignments in the band 1605-4000 kc/s will be complete by 1st January 1980;

b) that during the period of conversion, ship stations will use either class A3 or class A3H emission on 2182 kc/s;

c) that coast stations will use either class A3 or class . A3H emission until 1st January 1973 and from that date only class A3H emission on 2182 kc/s;

d) that large numbers of portable radio equipments designed only for safety purposes use class A3 emission;

e) that there may be practical difficulties in design of portable equipment for safety purposes using single sideband emissions;

resolves

that a study be made by the C.C.I.R.¹ of the problems concerning the application of single sideband techniques on the frequency 2182 kc/s.

<u>Note</u> : In cooperation, as necessary, with the Intergovernmental Maritime Consultative Organization. HOL/70(1)

DRAFT RESOLUTION

Relating to the Conversion from Double Sideband Operation (DSB) to Single Sideband Operation (SSB) in the Frequency bands 1605 - 4000 kc/s and 4000 - 23000 kc/s by the Maritime Mobile Service

The World Administrative Radio Conference, Geneva, 1967,

considering

a) Recommendation No. 28 of the Administrative Radio Conference, Geneva, 1959;

b) Resolution No. 3 of the Administrative Radio Conference, Geneva, 1959;

c) Recommendation No. 3, contained in the Final Report of the Panel of Experts, Geneva, 1963;

d) that the trend towards congestion and saturation in the bands between 4 and 27.5 Mc/s equally applies to the band 1605 - 4000 kc/s;

e) that the conversion from double sideband to single sideband operation in the bands 1605 - 4000 kc/s and 4000 - 23000 kc/s should be completed as soon as possible;

f) that suitable equipment for single sideband operation in the bands referred to in paragraph e) above was not sufficiently available on the date of commencement of the conversion (1 January, 1967) as recommended by the Panel of Experts;

g) that for economical reasons a depreciation period of 7 to 10 years is considered necessary;

resolves

that the conversion from double sideband to single sideband operation in the frequency bands 1605 - 4000 kc/s and 4000 - 23000 kc/s by coast and ship stations operating on Maritime Mobile radiotelephone channels shall take place in accordance with the following schedule:

Ref.

HOL/70(1) (cont.)

Α.

в.

Ref.

Frequency bands between 1605 and 4000 kc/s :

- 1. Coast stations shall be equipped for single sideband operation not later than 1 January, 1970.
- 2. Coast stations shall cease double sideband operation not later than 1 January, 1970.
- 3. Administrations should, if possible, endeavour to cease the installation of double sideband equipment on board ship stations not later than 1 January, 1970.
- 4. During the period of conversion from double sideband to single sideband operation, ship stations, already equipped with single sideband equipment, and coast stations, shall be able to use full carrier (A3H) emission to permit communication with stations using either double sideband or single sideband emissions.
- 5. Double sideband and A3H emissions by ship stations and A3H emissions by coast stations shall cease on 1 January, 1930. However, on the frequency of 2182 kc/s, the use of single sideband emissions using full carrier may be continued.

Frequency bands between 4000 and 23000 kc/s :

- 1. Coast stations shall be equipped for single sideband operation not later than 1 January, 1970.
- 2. Coast stations shall cease double sideband operation not later than 1 January, 1970.
- 3. Administrations should, if possible, endeavour to cease the installation of double sideband equipment on board ship stations not later than 1 January, 1970.
- 4. During the period of conversion from double sideband to single sideband operation, ship stations, already equipped with single sideband equipment, and coast stations, shall be able to use full carrier (A3H) emission to permit communication with stations using either double sideband or single sideband emissions.
- 5. Double sideband and A3H emissions by ship stations and A3H emissions by coast stations shall cease on 1 January, 1977.

RESOLUTION No. ...

734 .

Relating to the enforcement of the provisions of the Radio Regulations for SSB operation in a station in the maritime mobile service

The World Administrative Radio Conference, Geneva, 1967,

considering

1. that the provisions for DSB operation in a station in the maritime mobile service shall be abrogated on the date of coming into force of the Final Acts of this Conference;

2. that it is necessary to decide on the procedure for facilitating the transition from DSB operation to SSB operation in the stations concerned;

resolves

1. that a coast station and a ship station are permitted to operate with DSB radiotelephony equipments until 31 December 1969, and 31 December 1973 respectively. In this case, both stations shall conform to the conditions of the relevant provisions (except Article 9) of the Radio Regulations, Geneva, 1959;

2. that a coast station or a ship station employing SSB equipment before 1 January 1974 shall be able to send class A3H emissions and receive class A3 and A3H emissions when communicating with DSB stations;

3. that after 1 January 1974 a coast station or a ship station equipped for radiotelephony shall employ only class A3J emission. However, if required for the public correspondence service, class A3A emissions may also be used;

4. that notwithstanding those aforementioned, the use of class A3 or A3H emission on 2182 kc/s is permitted;

5. that the reduction of the guard band of 2182 kc/s shall come into force on 1 January 1974. The frequencies 2171.5 kc/sand 2192 kc/s made possible of new assignment by this reduction may be used on and after the said date.

Reasons :

In the Radio Regulations amendment has been made so that the equipment of a radio telephone station in the maritime mobile service in the frequency bands between 1605 and 4000 kc/s and between 4000 and 23 000 kc/s may be operated by SSB system. Therefore, it is necessary to provide for the procedure to be followed during and after the period of transition from the date of coming into force of these revised provisions until the date on which DSB operation is forbidden.

J/84(32)

J/86(54)

Ref.

RESOLUTION No.

Relating to the processing of frequency assignment notices to Coast Radiotelephone Stations operating in the frequency bands contained in No. 448 of the Radio Regulations

The World Administrative Radio Conference, Geneva, 1967,

considering

that Frequency Allotment Plan for Coast Radiotelephone Stations contained in Appendix 25 to the Radio Regulations (Geneva, 1959) shall be abrogated on the date of coming into force of the Final Acts of this Conference:

resolves

that during the period between the date of entry into force of the Final Acts of this Conference and 31 December 1969, notices of frequency assignments to stations in the bands listed in No. 448 shall be treated by the I.F.R.B. on the following 1. below. The entry recorded in the Master International Frequency Register in accordance with this processing shall be put under the re-examination by the Board on the following 2. below.

1. 1.1 the provisions of Nos. 496 to 540 shall be applied;

1.2 the relevant date to be recorded in the Master Register shall be entered in the appropriate part of Column 2 in conformity with the provisions of Nos. 574 or 575;

2. that on 1 January 1970, the Board shall re-examine all the frequency assignments which are contained in the Master Register for the bands listed in No. 448 of the Radio Regulations, as provided by the following items, and take an appropriate action;

2.1 if the frequency assignments to the coast radiotelephone stations operating with classes A3A, A3H and/or A3J emission are in conformity with an allotment plan in Section I of Appendix 25 and they are converted to SSB operation in the upper half of the channel of DSB frequencies listed in the table of Appendix 17 and in addition the activation date has already been notified to the Board, the date of 3 December 1951 shall be entered in Column 2a.

However, if, due to the above shifting, any harmful interference is experienced mutually, either of SSB operation shall be able to be transferred to the lower half of the channel through coordination between the Administrations concerned. On this occasion, the date of 3 December 1951 shall be entered in Column 2a;

J/86(54) (cont.)

- 2.2 if the frequency assignments to the coast radiotelephone stations operating with classes A3A, A3H and/or A3J emission are in conformity with an allotment in Section II of Appendix 25 and they are converted to the SSB operation in the lower half of the channel of DSB frequencies listed in the table of Appendix 17 and in addition the activation date has already been notified to the Board, the date of 4 December 1951 shall be entered in Column 2a;
- 2.3 if the frequency assignments to the coast radiotelephone stations operating with classes A3A, A3H and/or A3J emission are not in conformity with the above mentioned paragraphs 2.1 and 2.2, and they are operated under the SSB system in the upper half or lower half of DSB frequencies listed in the table of Appendix 17, the Board shall apply the provisions of Nos. 496 to 540 in the order of the receipt of notice. The date to be entered in Column 2a or 2b shall be determined according to the finding by the Board, based on the following :
 - 2.3.1 with respect to the assignments to which the provisions of No. 578 have been applied;
 - a) if the finding by the Board is favourable, the date of receipt of the original notice by the Board shall be entered in Column 2a;
 - b) if the finding by the Board is unfavourable, the date of receipt of the original notice by the Board shall be entered in Column 2b;
 - 2.3.2 with respect to the assignments to which the provisions of Nos. 579 and 580 have been applied;
 - a) if the finding by the Board is favourable, the relevant date shall be entered in Column 2a;
 - b) if the finding by the Board is unfavourable, the relevant date shall be entered in Column 2b;
- 2.4 each entry of the radiotelephone coast stations which is not in conformity with the provisions of No. 501 shall be entered in Column 2b with the date of 1 January 1970;
- 2.5 if those entries related to 2.1 (c) of the Resolution No. 1 of the Ordinary Administrative Radio Conference, Geneva, 1959 and entries related to DSB are still in the Master Register, they shall be deleted from it.

J/86(54) (cont.)

Reasons :

1. Since 1959 when the Geneva Conference established the present Appendix 25, the Members of the I.T.U. have increased 31 in number from 101 to present 132 Therefore, with respect to the frequency allotment plan for the coast radiotelephone stations contained in Appendix 25, it may well be expected that new requirements will be made by these newly increased Members.

2. Moreover, it is considered that, even among the Members who participated in the Geneva Conference in 1959, there are not a few countries which are under the necessity of new frequency allotment or feel keenly the shortage in the frequency allotment plan.

3. Therefore, it is not considered appropriate that the frequency allotment plan contained in Appendix 25 should be left as it is.

4. On the one hand, out of the frequency allotment plan contained in Appendix 25, some individual allotments may never be brought into use and are still recorded in the Master Frequency Register under prior protection.

5. On the other hand, now that the conversion of DSB to SSB has been assured of possible realization under the present circumstances, the schedule of transition to SSB system is expected to be put under study at this Conference. Accordingly, with respect to the communication channels contained in Appendix 25 also, it is expected that the same number of communication channels be created in the same manner as seen in the SSB conversion.

6. Therefore, viewed in the light of not only effective utilization of communication channel but also of meeting the demand of the Members, with respect to the frequencies for coast radiotelephone stations also, we should like to assign-them in accordance with the general rules for frequency assignments, as in the case of the frequency assignments to coast radiotelegraph station. In view of the foregoing, the abolition of Appendix 25 is proposed.

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Draft Resolutions relating to Item 3 of the agenda

Item 3 : Consequential revision of Appendices 15, 17 and 25 to the Radio Regulations.

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DRAFT RESOLUTION

F/10(62)

Ref.

The Maritime Conference,

considering

that a new allotment plan has been prepared to replace the allotment plan in Appendix 25 to the Radio Regulations (Geneva 1959);

that the allotments on behalf of certain countries in the old allotment plan (Appendix 25 - 1959) have been transferred to the new plan (Appendix 25 - 1967), subject to changes regarding the class of emission, the necessary bandwidth and the maximum usable power;

that the frequency assignments not in accordance with the old allotment plan (Appendix 25 - 1959), which have formed the subject of frequency notices sent to the I.F.R.B. between 4 December 1951 and the present Conference, have been considered in assessing requirements with a view to the preparation of the new plan;

that some countries have thereby benefited from new allotments and that the corresponding entries in the Master International Frequency Register (M.I.F.R.) may therefore be backdated in columns 2 a) and 2 b) of the Register, subject to certain transfer rules to make the entries in accordance with the new allotment plan;

resolves

that after*)the Master International Frequency a) Register shall include the allotments appearing in the Plan contained in Appendix 25 (revised) to the Radio Regulations (Geneva 1967);

b) that on this same date entries in the Master International Frequency Register concerning allotments in the plan contained in former Appendix 25 (1959) shall be deleted;

c) that, at the request of the Administrations concerned, the I.F.R.B. shall proceed to change in the Master International Frequency Register those entries which related :

- either to frequency assignments involving the use of double sideband operation, which were in accordance with an allotment in Appendix 25 (1959) - Part I;
- or to frequency assignments involving the use of single sideband operation, which were contained within the limits of an allotment in Appendix 25 (1959) - Part I.

Date of entry into force of the Final Acts of the Maritime *.) Conference.

F/10(62)

(contd.)

The modification, which shall apply only to one of the entries referred to above from all those relating to a channel allotted under the old plan (Appendix 25 - 1959), may concern only:

- the designation of the frequency which shall correspond to the new channel allotted in the new plan in exchange for the former allotment (column 1 of the Master Register);
- the designation of the class of emission and the necessary bandwidth which will satisfy the rules laid down at this Conference (column 7 of the Master Register);
- the power, expressed as peak power (1), which may not exceed the power indicated in the revised allotment plan.

The date of 3 December 1951 in column 2 a) shall be kept.

that, at the request of the Administrations concerned, d) the I.F.R.B. shall proceed, in accordance with the same rules, to modify the entries appearing in the Master International Frequency Register corresponding to allotments in Part II of the allotment plan (Appendix 25 - 1959) having formed the subject of an exchange allotment in Part II of the new allotment plan (Appendix 25 - 1967).

For these entries, the date 4 December 1951 shall be kept in column 2 b).

e) that, at the request of the Administrations concerned, the I.F.R.B. shall proceed, in accordance with the same rules, to modify the entries appearing in the Master International Frequency Register or under examination on*) concerning assignments involving the use of DSB or SSB provided they have given rise to the allotment, by the Conference, of a new or supplementary channel to the Administration concerned.

. The modified entries shall be in accordance with the rules laid down by this Conference and with the new allotment plan. They shall bear the date 3 December 1951 in column 2 a) or 4 December 1951 in column 2 b), depending on whether they relate to an allotment in Part I or Part II of the new plan;

*) Deadline for handing in requests, to be fixed by the Conference and which should be shortly after its meeting date.

In accordance with C.C.I.R. Recommendation 326 (Geneva 1963) the term (1) used in French to designate this power should be "puissance en crête de modulation".

F/10(62) (contd.)

f) that the I.F.R.B. shall circulate a questionnaire during the month following *) for entries concerning assignments in accordance with Appendix 25 (1959) but not modified so as to be in accordance with the new plan.

If, within two months, the notifying administration states that the assignment in question has been modified to make it in accordance with the new plan, the procedure referred to under e) above shall be applied.

If, at the expiry of this period, the notifying administration has not replied or has announced that it is continuing to use the frequency not in accordance with the new plan, the question shall be dealt with by the I.F.R.B. as described under point h) below.

g) That the assignments notified to the I.F.R.B. between 4 December 1951 and the date of entry into force of the Final Acts of the present Conference, which have not given rise to a new allotment, shall be dealt with as follows :

g.1) DSB assignments which were in accordance with Appendix 17 (1959).

The notifying Administration shall have up to*) to request the I.F.R.B. that the entry be modified and transferred as SSB to one of the channels chosen by it corresponding in the new Appendix 17 to the upper part or the lower part of the formerly occupied DSB channel in Appendix 17. The peak power (1) shall not be more than twice the mean power notified for the DSB emission.

- The I.F.R.B. shall then make the requested change and the date in column 2 b) shall be kept.
- If the notifying Administration does not make use of this possibility, the matter will be dealt with by the I.F.R.B. as mentioned under h) below.

*) Dates one month after the entry into force of the definitive provisions relative to the use of SSB for HF radiotelephony, by coast stations and ship stations respectively.

(1) In accordance with C.C.J.R. Recommendation 326 (Geneva 1963), the term used in French to designate this power should be "puissance en crête de modulation".

F/10(62) (contd.)

g.2) SSB assignments which were in accordance with Appendix 17 (1959) or, where applicable, with Appendix 25, and to which the above provisions do not apply.

The provisions of paragraph g.l) above shall apply. However, the frequency of the entry may be modified only to the extent that it may be transferred to the channel of the new Appendix 17 corresponding to the half-channel of the former Appendix (1959) occupied by the assignment in question. If the entry carries the date 3 December 1951 in column 2 a), the date when the assignment in question was notified to the I.F.R.B. shall be entered in column 2 b).

g.3) SSB or DSB assignments which were not in accordance with Appendix 17 (1959).

Until*) the notifying Administration shall have the possibility of transferring the assignment so that the frequency concerned may keep the same position with respect to the channels of the new Appendix 17 as the original entry had with respect to the corresponding channels of former Appendix 17 (1959). Furthermore, in the case of a DSB assignment, the notifying Administration may request that the DSB assignment be changed into an SSB assignment with a peak power (1) not more than twice the mean power notified for the DSB emission.

Once the above-mentioned procedure has been put into effect, the I.F.R.B. shall proceed to modify the assignment without changing the date appearing in column 2 b).

If the notifying Administration does not make use of this possibility, it shall be questioned by the I.F.R.B. as mentioned in the third sub-paragraph of paragraph g.l) above. The I.F.R.B. shall take the action specified in that sub-paragraph with regard to the entry in question.

h) Treatment by the I.F.R.B., as a result of the foregoing, of certain entries referred to in paragraphs f), g.1), g.2) and g.3) above.

The I.F.R.B. shall make a new examination of the frequency notices relating to these entries in accordance with Article 9, as if these notices had been sent to it on*).

- *) Dates one month after the entry into force of the definitive provisions relative to the use of SSB for HF radiotelephony, by coast stations and ship stations respectively.
- (1) In accordance with C.C.I.R. Recommendation 326 (Geneva 1963), the term used in French to designate this power should be "puissance en crête de modulation".

Agenda Item 3

G/77(43)

RESOLUTION No. 3A

Relating to the transfer of frequency assignments for coast radiotelegraph stations in the bands exclusively allocated to the Maritime Mobile Service between 4 000 and 23 000 kc/s

The Maritime World Administrative Radio Conference, Geneva, 1967,

decides

2. that the assignments for <u>coast radiotelegraph stations</u> entered in the Master International Frequency Register on that date shall be transferred in the frequency order in which they are then entered from the bands listed under a) to the corresponding bands listed under b) and provided that no changes are made in basic characteristics shall retain the registration dates (Column 2) then applicable.

•	a)		b)
·4 3	61- 4 368 kc/s	4	231- 4 238 kc/s
6 5	14.5-6 525 kc/s	6	346.5-6 357 kc/s
8 7	31- 8 745 kc/s	8	462- 8 476 kc/s
13 1	09-13 130 kc/s	12	69 3- 12 714 kc/s
17 20	62-17 290 kc/s	16	924 -16 952 kc/s
22 6	20-22 650 kc/s	22	370-22 400 kc/s.

Ref.

HOL/80(28)

DRAFT RESOLUTION

Relating to the Notification and Recording of Frequency Assignments to Radiotelephone Coast Stations operating in the Bands allocated exclusively to the Maritime Mobile Service between 4000 and 23 000 kc/s during and after the period of conversion from double sideband to single sideband operation.

The World Administrative Radio Conference, Geneva, 1967,

considering

a) that the Final Acts of this Conference will enter into force on the first of January, 1969;

b) that the Frequency Allotment Plan for radiotelephone coast stations contained in Appendix 25 to the Radio Regulations will be abrogated on that date;

c) that radiotelephone coast stations operating in the bands referred to in No. 448 of the Radio Regulations must be equipped for single sideband operation by the first of January 1970, and must be able to use full carrier (A3H) emission to permit communication with radiotelephone ship stations using both double sideband and single sideband emission until the first of January, 1977;

d) that the use of double sideband emission by radiotelephone ship stations in the bands referred to in No. 447 and the use of A3H emission by radiotelephone coast stations in the bands referred to in No. 448 of the Radio Regulations, must be discontinued by the first of January, 1977;

e) that some Administrations will change over, at their radiotelephone coast stations, to single sideband operation, or put new frequencies or stations for single sideband operation into use, before the first of January, 1970, where this can be done without causing harmful interference to radiotelephone coast stations operating in accordance with Column 4 of the Table in Appendix 17 (Revised) to the Radio Regulations and using class A3 emission; HOL/80(28) (contd.)

f) that, therefore, it will be necessary to provide for a procedure to facilitate the conversion from double sideband to single sideband operation;

resolves

1. during the period between the first of January, 1969, and the first of January, 1977, the notification and recording of frequency assignments to radiotelephone coast stations operating in the bands referred to in No. 448 of the Radio Regulations shall take place in accordance with the provisions laid down in the Annex to this Resolution.

2. As from the first of January, 1977, the notification and recording of frequency assignments to radiotelephone coast stations operating in the bands referred to in No. 448 of the Radio Regulations shall take place in accordance with the provisions of Article 9 of the Radio Regulations (Nos. 486-540), unless otherwise provided for in the Annex to this Resolution.

3. For the notification and recording of frequency assignments to radiotelephone ship stations operating in the bands referred to in No. 447 of the Radio Regulations and used for reception by particular radiotelephone coast stations, the provisions referred to in paragraph 1 or 2 above, as appropriate, shall be applied by analogy.

Annex

to Draft Resolution

Notification and Recording of Frequency Assignments to Radiotelephone Coast Stations operating in the Bands referred to in No. 448 of the Radio Regulations, during and after the period between 1 January, 1969, and 1 January, 1977.

Section I. Notification of Frequency Assignments

1.

§ 1.(1) In so far as this has not yet been done, any frequency assignment to a radiotelephone coast

HOL/80(28) (contd.)

station using single sideband operation and for which, on the corresponding double sideband channel, an entry is listed in the Master Register for double sideband operation, shall be notified to the International Frequency Registration Board in accordance with the provisions of Section I of Article 9 of the Radio Regulations. However, each notice shall reach the Board not later than 1 January, 1970.

(2) Similar notice shall be given for any frequency assignment to a radiotelephone coast station using single sideband operation and for which, on the corresponding double sideband channel, no entry is listed in the Master Register for double sideband operation.

S 2.(1) For any notification under item 1 above, an Administration shall, in principle, notify only the upper half of the original double sideband channel as the conversion from double sideband to single sideband operation.

(2) Exceptionally, however, if harmful interference has been experienced on the upper channel, an Administration may notify the lower channel as the conversion from double sideband to single sideband operation, after agreement has been reached with all interested and affected Administrations.

8 3. Exceptionally, any Administration may notify a frequency assignment to a radiotelephone coast station using independent sideband operation, when

- a) two adjacent sideband channels for the particular station have received favourable findings by the Board;
- b) the necessary bandwidth is confined within the limits of these two single sideband channels; and

8.

c) the Administrations concerned and affected are in agreement.

7.

2.

3.

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5.

6.

HOL/80(28) (contd.) **S** 4.(1) The deletion of any recorded frequency assignment to a radiotelephone coast station using double sideband operation shall be notified to the Board not later than 1 January, 1970.

(2) Similar notice shall be given of the deletion of any recorded frequency assignment to a radiotelephone coast station using A3H emission, but not later than 1 January, 1977.

Section II. Examination of Notices and Recording of Frequency Assignments in the Master Register

11.

9.

10.

8 5.(1) Frequency assignments notified to the Board between 1 January, 1969, and 1 January, 1970.

(2) The provisions of Nos. 496 to 540 of the Radio Regulations shall be applied.

(3) Where such assignments are to be recorded in the Master Register, the relevant date shall be entered in Column 2a or 2b in accordance with the provisions of No. 574 or 575 of the Radio Regulations, as appropriate.

(4) Any frequency assignment to a radiotelephone coast station satisfactory with respect to No. 501 of the Radio Regulations and with classes A3A, A3H and A3J emission, the assigned frequency of which is in conformity with a frequency listed in Column 2 or 6 of the Table in Appendix 17 (Revised) to the Radio Regulations, the necessary bandwidth of which is confined within the lower or the upper channel provided for in that Table, shall be so indicated by an appropriate symbol in the Remarks Column of the Master Register.

15.

(5) Notices concerning frequency assignments to radiotelephone coast stations submitted to the Board under items 5 to 8 above, shall be treated as follows :

12.

13.

14,

HOL/80(28) (contd.)

16.

17.

- a) the assignment shall be separately recorded in the Master Register;
- b) the date to be entered in Column 2a or 2b shall be in accordance with the relevant provisions of Article 9 of the Radio Regulations.

g 6.(1) <u>Frequency assignments already recorded in</u> the Master Register for the bands listed in No. 448 of the Radio Regulations on 1 January, 1970.

19.

18.

(2) On 1 January, 1970, the Board shall reexamine the frequency assignments already recorded in the Master Register for the bands listed in No. 448 of the Radio Regulations, particularly with respect to their conformity with Section III of Article 35 of the Radio Regulations, and shall record against them a date in Column 2a or 2b as follows.

(3) For each listing for a radiotelephone coast station satisfactory with respect to No. 501 of the Radio Regulations and with classes A3A, A3H and A3J emission, the assigned frequency of which is in conformity with a frequency listed in Column 6 or 2 of the Table in Appendix 17 (Revised) to the Radio Regulations, the necessary bandwith of which is confined within the upper or the lower channel provided for in that Table and which is the conversion to single sideband operation of an allotment in Section I of Appendix 25 to the Radio Regulations previously notified to the Board as having been brought into use, the date of 3 December, 1951, shall be entered in Column 2a.

(4) For each listing for a radiotelephone coast station satisfactory with respect to No. 501 of the Radio Regulations and with classes A3A, A3H and A3J emission, the assigned frequency of which is in conformity with a frequency listed in Column 6 or 2 of the Table in Appendix 17 (Revised) to the Radio Regulations, the necessary bandwidth of which is confined within the upper or the lower channel provided for in that Table and which is the conversion to single sideband operation of an allotment in Section II of

20.

21.

HOL/80(28) (contd.)

Appendix 25 to the Radio Regulations previously notified to the Board as having been brought into use, the provisions of Nos. 496 to 540 of the Radio Regulations shall be applied in the order in which the corresponding notice was received by the Board, except that no account shall be taken of listings with class A3 or A3B emission. The date of 4 December 1951, shall be entered in Column 2a or 2b, depending upon the finding of the Board resulting from the **re-examination**.

(5) For each listing for a radiotelephone coast station satisfactory with respect to No. 501 of the Radio Regulations and with classes A3A, A3H and A3J emission, the assigned frequency of which is in conformity with a frequency listed in Column 2 or 6 of the Table in Appendix 17 (Revised) to the Radio Regulations, the necessary bandwidth of which is confined within the lower or the upper channel provided for in that Table, but which is not the conversion to single sideband of an allotment in Section I or II of Appendix 25 to the Radio Regulations, the provisions of Nos. 496 to 540 of the Radio Regulations shall be applied, except that no account shall be taken of those listings with class A3 or A3B emission. The date to be entered in Column 2a or 2b, depending upon the finding of the Board resulting from the re-examination, shall be that which was relevant at the time No. 579 or 580 was applied.

(6) For each remaining listing for a radiotelephone coast station, the date of 1 January, 1970, shall be entered in Column 2b.

(7) For assignments to stations other than radiotelephone coast stations, the date of 2 January, 1970, shall be entered in Column 2b.

25.

23.

24.

22.

(8) The entries resulting from the application of item 2.1 c) of Resolution No. 1 of the Administrative Radio Conference, Geneva, 1959, shall be deleted.

26.

§ 7.(1) Frequency assignments notified to the Board after 1 January, 1970. <u>Ref.</u>

HOL/80(28) (contd.)

(2) Except for those cases referred to hereafter, notices concerning frequency assignments to radiotelephone coast stations shall be treated in conformity with the provisions of Article 9 of the Radio Regulations (Nos. 486 - 540).

28.

27.

(3) Notices referred to in items 5 to 7 above shall be treated in conformity with the provisons of items 15 to 17 above. I/33(17)

Withdraw Appendix 25 from the Radio Regulations

As a consequence of the suppression of Appendix 25, insert into the Radio Regulations the following Resolution to ensure that the assignments to coast radiotelephone stations recorded in the Master Register and already in service maintain the date in the appropriate entering of column 2.

RESOLUTION No. ...

RELATING TO THE TREATMENT OF NOTICES CONCERNING FREQUENCY ASSIGNMENTS TO RADIOTELEPHONE SHIP AND COAST STATIONS IN THE BANDS LISTED IN NOS. 447 AND 448 OF THE RADIO REGULATIONS

The World Administrative Radio Conference, Geneva, 1967,

considering

c)

.d)

a) that the Final Acts of this Conference will enter into force on 1 January 1969;

b) that the frequency allotment plan for radiotelephone coast stations contained in Appendix 25 to the Radio Regulations will be abrogated on that date;

that radiotelephone coast stations in the bands listed in No. 448 must be equipped for single sideband operation by 1 January 1971., and must have the capability of using full carrier (A3H) emission to permit communication with both double sideband and single sideband radiotelephone ship stations until 1 January 1977.;

that the use of double sideband emission by radiotelephone ship stations in the bands listed in No. 447, and the use of A3H emission by radiotelephone coast stations in the bands listed in No. 448, must be discontinued by 1 January 1977.;

I/33(17) (contd.)

that some administrations will convert their radiotelephone coast stations for single sideband operation, or bring new frequencies or stations for single sideband operation into use, before 1 January 1971., where this can be done without causing harmful interference to radiotelephone coast stations using class A3 emission in accordance with the Table in Appendix 17;

that it will therefore be necessary to provide an interim procedure to facilitate the transition from double sideband to single sideband operation;

resolves

1.

e)

f)

that during the period between the date of the entry into force of the Final Acts of this Conference and 1 January 1971., notices of frequency assignments to stations in the bands listed in No. 448 of the Radio Regulations shall be treated by the I.F.R.B. as follows :

1.1 the provisions of Nos. 496 to 540 shall be applied;

1.2 where such assignments are to be recorded in the Master International Frequency Register, the relevant date shall be entered in Column 2a or 2b in accordance with No. 574 or 575 as appropriate;

1.3 any frequency assignment to a radiotelephone coast station with classes A3A, A3H and A3J emissions found to be satisfactory in respect of No. 501, whose assigned frequency is in conformity with a frequency listed in the table in Appendix 17, and whose necessary bandwidth is confined within either the upper or lower limits of the bandwidth provided for double sideband emissions in that table, shall be so indicated by an appropriate symbol in the remarks column of the Master Register;

2.

that on 1 January 197**1**..., the I.F.R.B. shall keexamine the frequency assignments which are contained in the Master Register for the bands listed in No. MOD 448 (Proposal No. I/33(18)) of the Radio Regulations, particularly in respect of their conformity with Appendix 17, and shall record against them a date in Column 2a or 2b as follows : 2.1 for each listing for a radiotelephone coast station satisfactory in respect of No. 501 and with classes A3A, A3H and A3J emission, whose assigned frequency is in conformity with a frequency listed in the table in Appendix 17, whose necessary bandwidth is confined within either the upper or lower limits of the bandwidth provided for double sideband emissions in that table, and which is the conversion to single sideband operation of an allotment in Section I of Appendix 25 to the Radio Regulations previously notified to the Board as having been brought into use, the date of 3 December 1951, shall be entered in Column 2a. If the corresponding double sideband listing is still in the Master Register, it shall thereupon be deleted.

This procedure is to be applied only to one of the two channels resulting from the conversion to single sideband operation of an allotment in Section I of Appendix 25 to the Radio Regulations; as to the other channel resulting from this conversion, the procedure under 2.4 below is to be applied.

In principle, in the conversion to single sideband operation the radiotelephone coast stations operating in accordance with frequency assignments listed in Appendix 25 to the Radio Regulations shall have an assigned frequency in the upper channel provided in the table, Appendix 17. However, if harmful interferences have been experienced, in order to avoid such interferences the lower channel may be assigned by agreement between the administrations concerned;

2.2 for each listing for a radiotelephone coast station satisfactory in respect of No. 501 and with classes A3A, A3H and A3J emission, whose assigned frequency is in conformity with a frequency listed in the table in Appendix 17, whose necessary bandwidth is confined within either the upper or lower limits of the bandwidth provided for double sideband emissions in that table, and which is the conversion to single sideband operation of an allotment in Section II of Appendix 25 to the Radio Regulations previously notified to the Board as having been brought into use, the provisions of Nos. 496 to 540 shall be applied in the order in which the corresponding notice was received by the Board except that no account shall be taken of listings with class A3 or A3B emission. I/33(17) (contd.)

Ref.

The date of 4 December 1951, shall be entered in Column 2a or 2b, depending upon the finding of the Board resulting from the re-examination.

If the corresponding double sideband listing is still in the Master Register, it shall thereupon be deleted.

This procedure is to be applied only to one of the two channels resulting from the conversion to single sideband operation of an allotment in Section 11 of Appendix 25 to the Radio Regulations; as to the other channel resulting from the above said conversion, the procedure under 2.4 below is to be applied.

In principle, in the conversion to single sideband operation the radiotelephone coast stations operating in accordance with frequency assignments listed in Appendix 25 to the Radio Regulations shall have an assigned frequency in the upper channel provided in the table in Appendix 17. However, if harmful interferences have been experienced, in order to avoid such interferences the lower channel may be assigned by agreement between the administrations concerned;

for each listing for a radiotelephone coast station 2.3 satisfactory in respect of No. 501 and with classes A3A, A3H and A3J emission, whose assigned frequency is in conformity with a frequency listed in the table in Appendix 17, whose necessary bandwidth of emission is confined within the upper or lower limits of the bandwidth provided for double sideband emissions in that table, but which is not the conversion to single sideband of an allotment in Section I or II of Appendix 25, the provisions of Nos. 496 to 540 shall be applied in the order in which the corresponding notice was received by the Board, except that no account shall be taken of those listings with class A3 or A3B emission. The date to be entered in Column 2a or 2b, depending upon the finding of the Board resulting from the reexamination, shall be that which was relevant at the time No. 579 or 580 was applied.

2.4 for each remaining listing for a radiotelephone coast station, the date of 1 January 1971..., shall be entered in Column 2b; I/33(17) (contd.)

2.5 for assignments to stations other than radiotelephone coast stations, the date of 2 January 1971..., shall be entered in Column 2b;

2.6 those entries resulting from the application of No. 2.1(c) of Resolution No. 1 of the Administrative Radio Conference, Geneva, 1959, shall be deleted;

3.

4.

that each listing for a radiotelephone coast station using A3 or A3B emission remaining in the Master Register on 1 January 1971..., and each radiotelephone coast station using A3H emission after 1 January 1971..., shall thereafter be treated as an assignment in contravention of the Radio Regulations. Exceptionally however, where two adjacent single sideband channels for a particular station have received satisfactory findings by the Board, independent sideband operation whose necessary bandwidth of emission is confined within the limits of those two channels shall not be considered as being in contravention of the Radio Regulations, where used by agreement between the administrations concerned and affected.

that, by analogy, the Board shall apply the above provisions, as appropriate, to the notices concerning frequencies in the bands listed in No. MOD 447 (Proposal No. I/33(18)) of the Radio Regulations, to be used for reception by particular radiotelephone coast stations, except that the interim period shall extend to 1 January 1977..., and the re-examination of the listings in the Master Register shall take place on that date;

invites

administrations to notify to the I.F.R.B. as soon as possible the cancellation of frequency assignments to radiotelephone stations employing double sideband emission released as a consequence of the conversion of the corresponding stations for the use of single sideband emission.

RESOLUTION No. ...

RELATING TO THE CHANGE OF FREQUENCY BAND LIMITS FOR RADIOTELEGRAPH COAST STATIONS IN THE BANDS BETWEEN 4000 AND 27 500 KC/S

The World Administrative Radio Conference, Geneva, 1967,

considering

- a) that pursuant to the revision of Appendices 15 and 17 the frequency band limits for radiotelegraph coast stations have been modified;
 - that the existing assignments of the radiotelegraph coast stations comprised within the limits from

4364.5 - 4368 kc/s 6518 - 6525 kc/s 8735 - 8745 kc/s 13 112.4 - 13 130 kc/s 17 261.9 - 17 290 kc/s 22.625.4 - 22 650 kc/s

must be reallocated to make such frequencies available to radiotelephone coast stations;

c)·

Ъ)

that pursuant to the revision of Section A of Appendix 15 the frequencies comprised within the limits from

> 4231 - 4238 kc/s 6346 - 6357 kc/s 8461 - 8476 kc/s 12 692 - 12 714 kc/s 16 922 - 16 952 kc/s 22 368 - 22 400 kc/s.

are now available for radiotelegraph coast stations;

<u>Ref.</u>

I/33(22)

758 -

I/33(22) (contd.)

noting

- that the frequency bands under considering c) are wider than those under considering b);

- that for this reason it is possible to ensure the frequency reallocation to radiotelegraph coast stations, which must make their frequencies available for radiotelephone coast stations.

resolves

- that the radiotelegraph coast stations assignments already entered in the Master Register and operating in the frequency bands under considering b) be reallocated in the frequency bands under considering c):

- that the above assignments enter the appropriate part of Column 2 bearing the same date they now have in the Master Register.

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Draft Resclutions relating to Item 4 of the agenda

Item 4 : Possible revision of Appendix 18 to the Radio Regulations.

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F/11(70)

DRAFT RESOLUTION RELATIVE TO THE SEPARATION BETWEEN ADJACENT CHANNELS ASSIGNED IN THE VHF BAND (156 - 174 MHz) FOR THE MARITIME MOBILE SERVICE (See Appendix 18)

The Maritime Conference,

considering

that it will be desirable to envisage a separation of 25 kHz instead of 50 kHz between adjacent channels assigned in the 156 - 174 MHz band for use by the Maritime Mobile Service :

that it is desirable to make the necessary arrangements for smooth passage from a separation of 50 kHz to a separation of 25 kHz between adjacent assigned channels;

resolves

that equipment operating in the VHF band (156 - 174 MHz) brought into service on board ships after 1 January 1970 must be capable, after simple conversion, of operating with a separation of 25 kHz between adjacent assigned channels. The transmitters of such equipment must meet the necessary conditions of stability as soon as they are brought into service.

<u>Reasons</u> :

The maritime mobile service on VHF is expanding rapidly. It seems premature to amend Appendix 18 with a view to providing twice the number of channels with a spacing of 25 kHz instead of 50 kHz.

However, it would appear to be desirable for this conference to contemplate the conversion of equipment which will have to work with a narrower separation between adjacent channels with class of emission 16 F3 rather than 36 F3. This operation should not raise any difficulties, since land mobile services are already being developed in the same frequency band with a separation of 25 or 20 kHz between adjacent channels.

<u>Ref</u>.

6/112(54) DRAFT RESOLUTION RELATING TO THE CHANNEL SPACING OF TRANSMITTING FREQUENCIES ALLOTTED TO THE INTERNATIONAL MARITIME MOBILE SERVICE

FOR RADIOTELEPHONY IN THE BAND 156-174 Mc/s

(See Appendix 18 and Article 35A)

The Maritime Radio Conference, Geneva 1967,

considering

a) the expanding use of the maritime mobile radiotelephone frequencies in the VHF band between 156 Mc/s and 174 Mc/s;

b) the increasing demand for additional channels for Port Operations (including Pilotage, Tug and other services);

c) the need for additional VHF channels for short-distance communications in the maritime mobile service to relieve the congestion and saturation on the maritime mobile frequencies in the band 1605 kc/s to 3800 kc/s;

d) that this expanding use of VHF cannot be fully met by the existing available channels given in the Table of Transmitting Frequencies in Appendix 18;

e) that additional channels could be made available by reducing the present channel spacing of 50 kc/s to 25 kc/s;

resolves

1. that the channel spacing for international maritime mobile VHF radiotelephone services shall be reduced from 50 kc/s to 25 kc/s;

2. that the additional channels shall be obtained by interleaving the 25 kc/s channels midway between the existing 50 kc/s channels given in Appendix 18 of the Radio Regulations, Geneva, 1959 so as to cause the least disturbance to existing services; <u>Ref.</u> G/112(54)

(cont.)

3. that the 25 kc/s channels should be allocated for specific purposes;

4. that the technical characteristics of equipment for the international maritime mobile VHF radiotelephone service shall be in accordance with C.C.I.R. Recommendations.

5. that from 1 July 1979, guard bands on either side of 156.80 Mc/s shall be 156.7625 to 156.7875 Mc/s and 156.8125 to 156.8375 Mc/s;

6. that the transition from a channel spacing of 50 kc/s to that of 25 kc/s shall be in accordance with the following :

- date of commencement of implementation 1.1.69

- date by which all existing transmitters shall be modified to \pm 5 kc/s deviation, and receiver audio gain increased, where necessary
- date by which all coast station receivers shall be modified to meet the selectivity requirements
- date on which all new equipment shall conform to 25 kc/s standards 1.7.69
- date by which channel allocations See draft on interleaved channels may Recommendacommence where possible tion which follows.
- date by which all equipments shall conform to 25 kc/s standards and all interleaved channels be introduced.

1.7.79

1.7.69

1.7.69

G/112(56)

Red

DRAFT RECOMMENDATION No. ... RELATING TO THE INTRODUCTION OF A CHANNEL SPACING OF 25 kc/s IN THE VHF MARITIME MOBILE RADIOTELE-PHONE SERVICE

The Maritime Radio Conference, Geneva, 1967

considering

a) the future need for additional channels in the VHF ' maritime mobile radiotelephone service;

b) that additional channels may best be provided by reducing the channel spacing to 25 kc/s and by introducing the new channels midway between the present channels;

c) that the technical standards for a channel spacing of 25 kc/s are given in Appendices ... (or are under study by the C.C.I.R.);

d) that equipment for 50 kc/s channel spacing now in service should be given an acceptable economic life;

e) that, in general, the new interleaved channels cannot be fully used until all equipments are suitable for a channel spacing of 25 kc/s;

<u>recommends</u>

1/34(23)

<u>Agenda Item 4</u> - Possible revision of Appendix 18 to the Radio Regulations.

Foreword

The Mobile Maritime Service in the VHF field is at present ruled by Appendix 18 to the Radio Regulations with a channel spacing of 50 kc/s.

While this spacing was justified by the status of the technique existing ten years ago, it could certainly be reduced today to 25 kc/s, thus doubling the number of available channels.

However, as the channels now available are more than sufficient to meet the present requirements of the Mobile Maritime Service and to satisfy the growing demand in the near future, the reduction of the spacing from 50 to 25 kc/s would not seem justified.

The possibility can be foreseen however that in the future the development of the Mobile Maritime Service in VHF might require a greater number of channels and therefore make necessary the adoption of a 25 kc/s spacing.

Although establishing at the present time the conversion date from 50 to 25 kc/s would be premature, it would nevertheless be desirable - in order to make less onerous the consequences of the conversion - that the Administrations take into account this possibility and equip coast and ship stations with apparatus easily adaptable to the 25 kc/s spacing.

Therefore, it is proposed to insert the following Recommendation in the Radio Regulations.

Recommendation No. ...

Relating to equipments for Mobile Maritime Radiotelephone

Service in the 156-174 Mc/s band

The World Administrative Radio Conference, Geneva, 1967,

considering

a) that the Mobile Maritime Service in the 156-174 Mc/s band is rapidly increasing;

b) that the 2 Mc/s band is considerably congested : drawback that can be minimized but not completely suppressed by the conversion from DSB to SSB;

c) that as a result of the conversion from DSB to SSB the present radiotelephone equipment of the stations operating in the 2 Mc/s band shall be substituted;

1/34(23) (cont.)

d) that several ships will find it convenient to change from the 2 Mc/s to the 156-174 Mc/s band for small-distance communications;

e) that the saturation of channels available at present with a 50 kc/s spacing in the 156-174 Mc/s band can be foreseen in the not-too-distant future, so that it will be necessary to increase the number of channels by adopting a 25 kc/s spacing;

that for the 25 kc/s spacing, the equipment should have **f**) characteristics similar to those listed below for information purposes :

- 1) transmitter frequency tolerance not above 10.10⁻⁶:
- 2) receiver frequency tolerance not above 10.10^{-6} ;
- 3) maximum frequency deviation ± 5 kc/s;

that equipment for 50 kc/s spacing can be adapted to g) 25 kc/s spacing by :

- 1) reducing the frequency tolerance of transmitter and receiver;
- 2) reducing the transmitter's frequency deviation;
- reducing the IF bandwidth of the receiver in order to 3) increase its selectivity;
- 4) increasing the receiver's AF gain.

Recommends Administrations

to consider the opportunity to utilize, for the new installations in coast and ship stations of the Mobile Maritime Service in the 156-174 Mc/s band, equipments built in such a way to make as simple as possible their adaptation to 25 kc/s spacing.

ISL/NOR/S/105(1)

Draft RESOLUTION No.

The World Administrative Radio Conference, Geneva 1967,

considering,

that the requirements for short distance radiocommunication in the Maritime Mobile Service is rapidly increasing;

that the use of VHF is most suitable for such radiocommunication:

that the number of channels in the VHF band now available for maritime mobile service is likely to become insufficient in the near future in high traffic areas;

that this foreseeable lack of channels cannot be compensated by frequencies outside the bands now allocated to the maritime mobile service:

that the present state of technique allows the successful and economical use of a channel spacing in VHF mobile radiocommunication of 25 kc/s or less, proved by the use of such channelling since many years in the land mobile service;

that, consequently, a transition in the future from the present channel spacing of 50 kc/s into 25 kc/s is unavoidable;

that, because of great investments in new radio equipments during the last years, many Administrations are not yet prepared to specify a date for the transition:

that the transition, when eventually decided, shall be realized with as little difficulties, financial and other, as possible;

resolves,

that all VHF radio equipments for maritime mobile service installed after 1 July, 1969, shall be so designed that they can easily be converted for operation in 25 kc/s channel spacing instead of 50 kc/s.

Ref.

Proposal :

In Japan, in order to cope with great increase in radiotelephone traffic in the 164 - 174 Mc/s band connecting a ship with subscribers of the land telephone system, the operation in this band is already in practice by channel spacing of 25 kc/s. In the near future, in the international VHF channels too, it is considered necessary to reduce the spacing between channels from 50 kc/s to 25 kc/s for the relief of traffic congestion.

Therefore, it is desirable to decide on its future course and prepare for a smooth transition in this Conference.

For this reason, the following Recommendation is proposed :

J/87(55)

RECOMMENDATION No.

Relating to reduction in channel bandwidth in the <u>VHF band (156 - 174 Mc/s) for radiotelephony in</u> the Maritime Mobile Service

The World Administrative Radio Conference, Geneva, 1967,

considering

a) that for the relief of traffic congestion it is desirable to reduce the channel bandwidth from 50 kc/s to 25 kc/s on frequencies used for VHF radiotelephony in the Maritime Mobile Service;

b) that it is necessary to decide promptly on technical and operational requisites for facilitating the reduction in bandwidth mentioned above;

invites the C.C.I.R.

to carry out research in technique and operation necessary for reducing the channel bandwidth from 50 kc/s to 25 kc/s in the band 156 - 174 Mc/s for radiotelephony in the maritime mobile service, to prepare the report on these matters and to draw up the recommendation before the next World Administrative Radio Conference concerned:

and invites the Administrations

to study this problem for the purpose of transferring the channel bandwidth from 50 kc/s to 25 kc/s in the above frequency band, and to submit proposals therefore to the next World Administrative Radio Conference concerned. Draft Resolution No.

USA/55(49)

Relating to permissive use of the intermediate (25 kc/s) channels between the (50 kc/s) channels listed in Appendix 18 in the band 156-174 Mc/s for radiotelephony in the maritime mobile service

The World Administrative Radio Conference, Geneva, 1967,

considering,

a) the trend towards congestion and saturation on the maritime mobile radiotelephony frequencies at 2 Mc/s, and above, in various areas of the world;

b) the capability of VHF to fulfil many of the short-distance communication requirements, both national and international, in the maritime mobile service;

c) the rapidly expanding use of VHF which is being made to meet national and international short-distance communication needs in the maritime mobile service, which cannot be fully met by the existing channels;

d) that a reduction in the spacing between channels from 50 kc/s to 25 kc/s would approximately double the number of assignable maritime mobile radiotelephony channels in the 156-174 Mc/s band;

e) that the need for additional VHF channels is not uniformly distributed throughout the world, a situation such that some administrations require access to an increased number of channels, while other administrations do not, and will not in the near future, require additional VHF 'channels;

f) that, on the one hand, those administrations which need additional VHF channels should not be precluded from their use by the lack of need by other administrations;

g) that, on the other hand, those administrations which do not need additional VHF channels should not be unduly inconvenienced in order that an increased number of channels may be made available to other administrations;

believing,

that full encouragement should be given to the use of VHF in order to lessen the congestion on maritime mobile service frequencies at 2 Mc/s, and above;

Ref.

Ref. USA/55(49) <u>resolves</u> (cont.)

1. That assignments to stations of the intermediate (25 kc/s) channels between those appearing in Appendix 18 shall be on a national basis; or, as appropriate, by area or regional agreement;

2. That those channels of Appendix 18 which were in use by an administration for radiotelephony in the maritime mobile service on the effective date of the Final Acts of this Conference should be accorded protection from harmful interference from use of the intermediate (25 kc/s) channels between those (50 kc/s) channels heretofore listed in Appendix 18;

3. That, where use of the intermediate (25 kc/s) channels between those listed in Appendix 18 is required by an administration, adequate technical measures should be employed to avoid harmful interference to operations on the (50 kc/s) channels heretofore listed in Appendix 18;

and noting,

- i) that the reduction of frequency deviation of ship and coast station transmitters from ± 15 kc/s to ± 5 kc/s is an essential step to maintaining compatibility between ship and coast station equipments in an environment where channel bandwidths of both 50 kc/s and 25 kc/s are employed;
- 11) that the reduction of frequency deviation of ship and coast station transmitters from \pm 15 kc/s to \pm 5 kc/s will permit those administrations desiring to do so to equip their ship and coast stations with new or modified receiving equipment having the capability of operating in a channel spacing environment of 25 kc/s;

further resolves,

to urge administrations to reduce the frequency deviation of ship and coast station transmitters from \pm 15 kc/s to \pm 5 kc/s at the earliest practicable date, to the end that all such changes shall have been accomplished by the effective date of the Final Acts of this Conference.

Reasons :

To provide for the permissive use of intermediate channels between those appearing in Appendix 18; amendment of associated technical criteria; and other consequential amendments. Draft Resolutions relating to Item 5 of the agenda

Item 5 : Classes of emission to be used on the international distress and calling frequencies 500 kc/s and 2182 kc/s.

Ref.

POL/83(4)

DRAFT RESOLUTION No. ...

relating to the necessity of asking the I.M.C.O. Safety Committee
to introduce into the International Convention for the Safety of
Life at Sea, London, 1960, the amendments assuring keeping watch
on the international distress frequency for radiotelephony by all
ship stations

The World Administrative Radio Conference, Geneva, 1967,

considering that

a) so far the ship stations equipped for radiotelegraphy traffic but having as well the radiotelephony means of communications were keeping watch only on the international distress frequency for radiotelegraphy,

b) big ocean-going ships keeping watch on the international distress frequency for radiotelegraphy could not hear distress calls of small craft calling on the distress frequency for radio-telephony,

c) to increase the safety of small ships and to improve the efficacy of assistance to the shipwreck survivors big ships should keep watch on both international distress frequencies - for radiotelegraphy as well as for radiotelephony - simultaneously,

d) this Conference has adopted the necessary amendment of the Radio Regulations, Geneva, 1959, concerning this matter,

requests the Secretary General

to ask the I.M.C.O. Safety Committee to introduce into the pertinent part of the International Convention for Safety of Life at Sea, London, 1960, the rule imposing on all ship stations the duty to keep watch on the international distress frequency for radiotelephony 2182 kc/s.

Background :

So far ship stations equipped for radiotelegraphy traffic, but having as well the radiotelephony means of communication were keeping watch only on the international distress frequency for radiotelegraphy 500 kc/s (International Convention for the Safety of Life at Sea, Section IV, part B, rule 6).

In this situation big ocean-going ships watching only on 500 kc/s could not hear distress calls of small craft transmitted on 2182 kc/s. Ref.

POL/83(3) (cont.)

To increase the safety of small ships and improve efficacy of assistance to shipwreck survivors the big ships should keep watch on <u>both</u> international distress frequencies 500 kc/s <u>and simultaneously</u>.

The introduction among the ship equipment of automatic position indicating beacon signals helping to locate the position of mobile station in distress and to look for survivors equipped with the above mentioned beacons working on 2182 kc/s stresses the necessity of keeping watch on this frequency and the need of introducing of this duty as a rule to <u>all</u> ship stations. Draft Resolutions relating to Item 6 of the agenda

Item 6 : Examination of the pertinent portions of the revised International Code of Signals.

(See also a Draft Recommendation about this Agenda Item in page 795)

DRAFT RESOLUTION

RELATIVE TO THE EXAMINATION OF PERTINENT PORTIONS OF THE REVISED INTERNATIONAL CODE OF SIGNALS OF THE INTER-GOVERNMENTAL MARITIME CONSULTATIVE ORGANIZATION

The Maritime Conference (Geneva 1967),

considering

a) that the Maritime Safety Committee of the Inter-Governmental Maritime Consultative Organization (I.M.C.O.) has prepared a revised International Code of Signals which constitutes a radiotelephone code;

b) that some aspects of this radiotelephone code differ from the provisions of the 1959 Radio Regulations (see Annex I);

c) that the present Conference has amended certain points of the Radio Regulations to bring those parts which relate exclusively to the Maritime Mobile Service into line with the revised International Code of Signals of I.M.C.O.;

d) that the Radio Regulations are the responsibility of the International Telecommunication Union;

e) that it is desirable to define the responsibility and competence of the I.T.U. and I.M.C.O. regarding the usage of international signals in radiocommunication;

resolves

1) that the International Telecommunication/Union is competent to determine the choice and conditions of use of international signals relating to radiocommunication procedures;

2) that it should be left to the Inter-Governmental Maritime Consultative Organization (I.M.C.O.) to determine the choice and conditions of use of signals relating to matters other than radiocommunication procedures;

3) that there is no objection to the adoption of the revised International Code of Signals; however, the attention of I.M.C.O. should be drawn to the existence of abbreviations having a different meaning in the Code and Radio Regulations, which may - in radiotelegraphy only - involve certain drawbacks;

requests the Secretary-General of the International Telecommunication Union to send the Secretary-General of I.M.C.O. the report prepared by the World Maritime Radio Conference (Geneva 1967) annexed hereto.

<u>Ref</u>. F/13(80) F/13(80) (cont.)

Annex to the draft Resolution

relative to the examination of the pertinent portions

of the revised International Code of Signals of I.M.C.O.

Material submitted to the Conference with a view to the preparation of the Report to be sent to I.M.C.O.

1. The list of amendments made by the Conference to the Radio Regulations to allow for the revised International Code of Signals will be forwarded to I.M.C.O.

2. The report will also contain comments by the Conference on certain signals in the revised International Code of Signals :

- the practical application of which involves certain drawbacks (Chapter VIII),
- which have a different meaning from that attributed to them in the Radio Regulations (Chapter X).

With regard to these latter signals, it would be desirable for I.M.C.O. to draw attention to the possible confusion which might arise if they are used. It could do so for example by including an appropriate note to this effect.

HAPTER VIII - Radiotelephony

- Paragraph 3 "Method of attack" and paragraph 4 "Reply to calls"

Use of the abbreviation "DE" (DELTA ECHO) in the procedure used in radiotelephony for calling and for answering calls might be a source of confusion if the call signs of the called or calling stations end or begin with "DE".

Ref.

F/13(80) (cont.)

CHAPTER X - Procedure signals

- General section - Two-letter signals

Signals having a different meaning in the Radio Regulations and the revised International Code of Signals of I.M.C.O.

Signal	RR	Code of signals
BK	Interruption in transmission	You are above mo
BQ	Reply to RQ	Aircraft speed
CL	I am closing my station	Assistance refused
CP	Call to 2 or more specified stations	Am coming to your assistance
DF	Bearing at hours	Vessel ready to serve
DO	Bearing doubtful	Watch vessel situated
ER	Here	Position at time indicated
NW	Now	Draught in ballast
OL	Ocean letter	Radar piloting
ጥፓ	Thank you	Am cutting the ropes
D.WD	Word(s) or Group(s)	Ico breaker not available
XQ	Note in the fixed service	What kind of weather do you have?

- Medical section - Three-letter signals

Signals having a different meaning in the Radio Regulations and the revised International Code of Signals of I.M.C.O.

Signal	RR	Code of signals
MIN	Minute (or minutes)	Very dark stools
MPH	Statute miles per hour	Is no longer suffering
MSG	Message	Slight movements and massage every day

3.

Comparison between the revised International Code of Signals and the "Q" code (Appendix 13, section I)

A number of signals included in the revised International Code of Signals have the same meaning as certain signals included in Appendix 13, Section I to the R.R. (Q Code).

The conference considered that it was not competent to amend the latter code which is used by services other than the Maritime Mobile Service.

Ref.

Ref.

USA/21(44)

<u>Resolution No.</u> - <u>Relating to Responsibility for</u> <u>International Signals</u>

The World Administrative Radio Conference, Geneva, 1967,

considering

- (a) that the Administrative Radio Conference, Atlantic City, 1947, suggested that the International Code of Signals should fall within the responsibility of the Inter-Governmental Maritime Consultative Organization (I.M.C.O.);
- (b) that the I.M.C.O. has prepared a revised International Code of Signals;
- (c) that the revised International Code of Signals was adopted by the Fourth Assembly of the I.M.C.O. in 1965, to come into effect on 1 January 1969;
- (d) that this Conference has amended the Radio Regulations to make them consistent with the revised International Code of Signals;
- (e) that the regulation of radiocommunication is within the responsibility of the International Telecommunication Union (I.T.U.);
- (f) that it is necessary to determine the responsibility for those signals in international usage which may be used in both radiocommunication and in other methods of signalling;

resolves

- 1. that those signals identified primarily with radiocommunication should be the responsibility of the I.T.U.;
- 2. that those signals identified primarily with other aspects such as navigation and search and rescue activities should be the responsibility of the I.M.C.O.;
- 3. that where considered desirable, signals within the responsibility of one organization may be included for information in the publications of the other organization, suitably annotated as to indicate their source;
- 4. that the respective Secretaries General should, where doubt exists, confer and decide as to which organization will assume the responsibility for a particular signal;

requests the Secretary-General

1. to refer to the I.M.C.O. the substance of this Resolution for its concurrence.

Draft Resolutions relating to the Establishment of a Manual for use by the Maritime Mobile Service

G/62(70) Comments

1. As the result of Resolution No. 12 of the Administrative Radio Conference, Geneva, 1959, a Manual for Use by the Mobile Services was prepared and published. However, provision for its carriage as an alternative to the Radio Regulations and the Additional Radio Regulations was not made : neither was provision made for the revision of the Manual following a revision of the Radio Regulations and the Additional Radio Regulations.

2. It will be necessary therefore for authority to be given either for the preparation and issue of a new Manual after each revision of the Radio Regulations and Additional Radio Regulations or alternatively for its revision.

Resolution No.

Relating to the Establishment of a Manual

for use by the Maritime Mobile Service

The World Administrative Radio Conference, Geneva, 1967,

considering

a) that the provisions of the Radio Regulations, Geneva, 1959, applicable to the maritime mobile service include :

- previsions directly related to the operation of the meritime mobile service,
- other provisions not directly related to these services;

b) that administrations have submitted to the World Administrative Conference, Geneva, 1967, proposals to revise and reclassify those provisions directly related to the operation of the maritime mobile service;

c) that a new layout for the provisions facilitating the understanding of the technical stipulations and service procedure regulations concerning radiotelegraphy and radiotelephony, as well as the rules regarding radiotelegrams, radiotelephone calls, and distress traffic has been provided;

d) that this new layout would be of great value to the maritime mobile service, and would enable administrations to issue, if they wish to do so, national regulations based upon internationally self-contained sets of rules for the different services; G/62(70) (cont.)

e) that it would be very useful to publish in a manual those provisions relating directly to the operation of the maritime mobile services;

f) that a manual for use by the mobile services was prepared and , published by the Secretary-General in accordance with Resolution No.12 of the Administrative Radio Conference, Geneva, 1959;

g) that this manual revised to incorporate the amendments agreed at the World Administrative Radio Conference, Geneva, 1967, could form a basis for the manual for use by the Maritime Mobile Services;

h) that provision has been made in Appendix 11 for the carriage of the Manual by ship stations as an alternative to the Radio Regulations and Additional Radio Regulations and such provisions of the Convention as relate to the radiocommunications service on board ship:

i) that the other mobile services have not expressed a need for a manual applicable only to those services;

resolves

1. that the provisions of the Radio Regulations and the Additional Radio Regulations which deal with the operation of the Maritime Mobile Service as revised by the World Administrative Radio Conference, Geneva, 1967, together with those provisions of the International Telecommunication Convention, lists of certain provisions of the Telegraph Regulations and of the Telephone Regulations shall be assembled by the Secretary-General in a manual entitled "Manual for Use by the Maritime Mobile Service";

2. that the Secretary-General shall, as soon as possible after the conclusion of this Conference, publish the Manual to ensure its availability, by the date the revised Radio Regulations and Additional Radio Regulations come into force;

3. that the Secretary-General revise the Manual as necessary to keep it up-to-date.

<u>Ref</u>.

<u>Rof</u>. USA/28 (65)

Resolution No....

Relating to the Establishment of a manual for use by the maritime mobile service

The World Administrative Radio Conference, Geneva, 1967,

considering,

a) that the provisions of the Radio Regulations, Geneva, 1959, applicable to the maritime mobile service include, in particular :

- provisions directly related to the operation of the maritime mobile service,

other provisions not directly related to this service;

b) that it would be useful to administrations to have available to stations in the maritime mobile service a compact publication containing those Radio Regulations, Additional Radio Regulations, and portions of the Convention necessary and useful for operation of those stations;

c) 'that a manual for use by the mobile services (1961) was prepared by the Secretary General pursuant to Resolution No. 12 of the Administrative Radio Conference, Geneva, 1959, and that it with minor revisions could form a basis for the manual for use by the maritime mobile service;

d) that the other mobile services have not indicated a need for a manual similar to that which would be useful to the maritime mobile service;

resolves

1. that the provisions of the Radio Regulations, the additional radio regulations and portions of the Convention applicable and useful to stations in the maritime mobile service be compiled into a compact manual, designated as the manual for use by the Maritime mobile Service, by the Secretary General in consultation with administrations as necessary;

2. that the Secretary General publish the manual as soon as practicable after the conclusion of this Conference to insure its availability as an official publication of the I.T.U. as of the date the Final Acts of this Conference come into force;

3. that the Secretary General revise the manual as required to keep it current with the Radio Regulations.

Reasons :

To permit use of a more compact and inexpensive publication for use by the maritime mobile service on board those ship stations where the Radio. Regulations and additional Radio Regulations are required by Appendix 11.

Draft Recommendation relating to Agenda Item 2.4

Item 2.4 : The desirability of accommodating requirements for oceanographic communications

Draft RECOMMENDATION No

DNK/HOR/S/104(1)

The World Radio Administrative Conference, Geneva 1967,

considering,

that a Joint Meeting of Experts on Telecommunications, Oceanography and Meteorology, convened in Paris 2-6 September 1963 by the Intergovernmental Oceanographic Commission recommended that the next appropriate Administrative Radio Conference consider a suitable solution to the problem of satisfying the radiocommunication needs of the "Ocean Data Service":

that it appears plausible that one family of HF bands for worldwide use is necessary to accomplish the automatic transmission from and telecommand of ocean data collecting stations;

that this type of radiocommunication does not fall under any of the services defined in the Radio Regulations;

that the extensive use of the HF bands allocated to the maritime mobile service is rapidly increasing as a consequence of the growing number of ships equipped with and using radio telephony;

that an accommodation of other radiocommunication in the HF bands allocated to the maritime mobile service would, consequently, cause severe difficulties to the effective handling of the maritime mobile radio traffic;

that the Extraordinary Administrative Radio Conference for the preparation of a Revised Allotment Plan for the Aeronautical Mobile (R) Service, Geneva 1966, did not allot certain small parts of the edges of the HF bands allocated to the aeronautical mobile (R) service;

recommends,

that, pending the decision of an appropriate Radio Conference with the term of reference to revise Article 5 of the Radio Regulations, the non-allotted parts of the HF bands allocated to the aeronautical mobile (R) service be used to a reasonable extent by oceanographic data collecting stations under the conditions of No. 115 of the Radio Regulations. DNK/NOR/S/104(1)

Reasons :

The maritime mobile HF bands being highly congested, a situation which is estimated to become worse every year, it appears impossible to give place in these bands to another type of radio traffic, which does not mainly concern maritime mobile questions. The oceanographic data collection must be considered as a contribution to the improved knowledge of geophysics, which is of great value to many different kinds of human activity. The interaction between oceanography and meteorology is obvious.

It may be questioned whether the present Conference can allocate frequencies to other services even in the maritime mobile bands - it certainly is beyond its competence to allocate frequencies in other bands. The present proposal is therefore written in the form of a recommendation only.

The parts of the frequency band edges referred to in the recommendation are the following :

Frequency kc/s		Bandwidth kc/s
3400.0	- 3400.5	0.5
3499.5	- 3500.0	0,5
4650.0	- 4650.5	0.5
4699.5	- 4700.0	0.5
5480.0	- 5480.5	0.5
6525.0	- 6525.5	0,5
6683.5	- 6685.0	1.5
8815.0	- 8815.5	0.5
8963.5	- 8965.0	1.5
10 097.0	- 10 100.0	3.0
11 395.0	- 11 400.0	5.0
17 900.0	- 17 905.0	5.0
17 969.0	- 17 970.0	1.0

In all, 21 kc/s are thus available, distributed amongst 14 bands over the entire HF range. The lower bands are narrow, but in view of the low speed of information necessary for this type of communication these bands should be fully usable, if the technique is adapted to the available bandwidth.

Draft Recommendation

relating to Agenda Item 6

Item 6 : Examination of the pertinent portions of the revised International Code of Signals.

In Document No. 44-E, page 2, Canada expressed the view that this W.A.R.C. is not competent to revise Appendix 13 of the Radio Regulations. Acknowledging I.M.C.O.'s responsibility for maritime signals and abbreviations relating to distress, search and rescue, safety of navigation and medical assistance, it was suggested that I.M.C.O. be invited to make use of the Q-code series QOA-QQZ for that purpose.

It is proposed, therefore, that the Conference adopt the following Recommendation :

Ref.

CAN/106(39) RECOMMENDATION to the Inter-governmental Maritime Consultative Organization relating to the International Code of Signals.

The World Administrative Radio Conference, 1967,

considering,

a) that I.M.C.O. has primary responsibility for maritime signals and abbreviations relating to distress, search and rescue, safety of navigation and medical assistance;

b) that I.M.C.O., in compliance with Recommendation 42 of the International Conference on Safety of Life at Sea, 1960, has developed an International Code of Signals, primarily for use in cases of language difficulties

c) that the Q-code series QOA to QQZ is reserved for the maritime service but has not been used, noting that the series QAA-QNZ reserved for the aeronautical service has been implemented;

d) that this Conference could reserve an additional block of Q signals for use by the maritime service, if the present series is inadequate:

e) that any revision of Appendix 13 of the Radio Regulations should be delayed until the International Code of Signals becomes fully effective;

recommends,

that I.M.C.O., in cooperation with the I.T.U., amend the International Code of Signals to include a series of signals relating to distress, search and rescue, safety of navigation and medical assistance, with corresponding significations in the Q-code series QOA-QQZ and any additional series reserved for the maritime service.

Draft Recommendations

relating to Agenda Item 7.5

Item 7.5 : Frequencies to be assigned for the transmission by television of port radar images.

CAN/45(37)

a)

b)

a)

b)

c)

Proposal

Since there are no world-wide allocations available to the maritime mobile service for the purpose nor are there any existing port-radar image transmission systems suitable for international acceptance, Canada considers that the need and operational requirements should be studied by Administrations, the I.M.C.O. and the C.C.I.R. as suggested in the following Recommendation :

Recommendation

Transmission by television of port radar images to ships The World Administrative Radio Conference 1967

Considering

- that there may be a future requirement. for the transmission by television of port radar images from shore to ships, in congested waters;
- that the table of frequency allocations does not provide spectrum for this purpose.

Recommends

- that as a matter of urgency. Administrations. and the Inter-Governmental Maritime Consultative Organization study the operational need and the parameters for such systems and inform the Secretary-General of the results of these studies;
- that if such an operational need does exist the C.C.I.R. be invited to determine the most suitable order of frequencies required for this purpose, and the technical parameters to be met by such systems;

that Administrations be prepared to take a decision in this matter at the next competent W.A.R.C.

Ref.

HOL/75(25)

Frequencies to be assigned for the transmission by television of port radar images

DRAFT RECOMMENDATION

to the C.C.I.R. relating to the transmission by television of port radar images

The World Administrative Radio Conference, Geneva 1967,

having noted

that some administrations have drawn attention to a need to provide for the transmission of port radar images by means of television when the use of normal radar systems on board ships sailing a harbour area would not appear to be feasible;

considering

a) that the use of such port radar images in the circumstances referred to above will contribute to the safety of navigation and thereby of human life in harbour areas;

b) that no sufficient information is available as to

- the minimum technical demands to be made upon the transmission by television of port radar images, and
- the frequency bands in which such a system could best be accommodated,

so as to provide for satisfactory operation;

c) that, however, the transmission by television of port radar images, although being in the interest of shipping, does not come under the definition of the Maritime Mobile Service as given in No. 36 of the Radio Regulations and that, therefore, the Conference is not competent to take any decision in this matter;

invites the C.C.I.R.

to study the problems involved in the transmission by television of port radar images and to make recommendations concerning :

1. the technical standards for such a system, particularly with respect to the minimum bandwidth necessary;

2. the frequency bands in which such a system could best be accommodated.

Ref.

Draft Recommendation relating to the use of the band 450 - 470 Mc/s for radiotelephone communication

Ref.

G/114(60)

RECOMMENDATION No. RELATING TO THE USE OF THE BAND 450-470 Mc/s FOR RADIOTELEPHONE COMMUNICATION

The Maritime Administrative Radio Conference, Geneva, 1967.

considering

a) that a need exists for short-range on-board radiotelephone communication in ships;

b) that sufficient frequencies in other bands cannot be provided to meet this requirement in full;

c) the advantages of reaching international agreement on the frequencies to be used for "on-board" communications in order to minimise interference between such communications and other Fixed and Mobile services;

recommends

1. that in addition to any frequency channels which may be made available in other bands, allocations for this purpose be made in the band 450 to 470 Mc/s;

2. that for this purpose Administrations should consider allocating the frequencies 456.925 Mc/s, 456.975 Mc/s,462.425 Mc/s and 462.475 Mc/s on a single frequency basis with a power limit of 500 mW and a channel-width of 50 kc/s.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/3-E 19 September 1967 Original : English

GENÈN

COMMITTEE 6

DRAFT OUTLINE OF THE WORK OF COMMITTEE 6 (OPERATION) WITH CROSS-REFERENCE TO RELATED PROPOSALS

A. Terms of reference :

to examine, inter alia, Articles 20, 22 to 25, 28 (Sections I and II), 29 to 31, 33, 34, 36 to 40 and Appendices 9 to 13, 16, 20 to 22 to the Radio Regulations, together with agenda items 6, 7.2, 7.3, 7.4 and other questions under item 7 which relate to operation. (Extracted from Document No. 157.)

B. The subjects resulting from the above terms of reference may be catalogued as follows :

1. <u>Matters of radiotelegraph procedure</u>

Articles 29-31, RR1000-1094 : DT/2 pages 213-224

2. Matters of radiotelephone procedure

Articles 33-34, RR1209-1318 : DT/2 pages 281-325

3. <u>Service documents</u>

Article 20, RR789-837 : DT/2 pages 131-135 Appendix 9, page 371 : DT/2 pages 443-448 Appendix 10, page 386 : DT/2 pages 449-454

4.

Revised International Code of Signals



Appendix 13, page 395 : DT/2 pages 469-528 Appendix 16, page 430 : DT/2 pages 561-575 Recommendation No. 22, page 567 : DT/2 pages 703-705 Recommendation No. 29, page 605 : (No proposals) Recommendation No. 30, page 605 : DT/2 pages 711-715

Document No. DT/3-E Page 2

Questions related to distress and safety

Article 28, Section II, RR965-969 : (No proposals) Chapter VIII, Article 36, RR1380-1495 : DT/2 pages 383-423 Appendix 20, page 437 : DT/2 pages 649-662 Recommendation 23, page 597 : (No proposals) Recommendation 24, page 598 : (No proposals) Recommendation 25, page 599 : (No proposals)

General provisions to be applied to ship stations

Article 28, Section I, RR955-964 : DT/2 pages 171-173 Appendix 11, page 388 : DT/2 pages 455-457 Resolution No. 12, page 533 : (No proposals) Recommendation No. 17, page 560 : (No proposals) Recommendation No. 26, page 600 : (No proposals) Recommendation No. 27, page 601 : DT/2 pages 707-709

Questions related to personnel

Chapter VI, Articles 22-26, RR845-948 : DT/2 pages 137-170 Appendix 12, page 392 : DT/2 pages 459-467 Recommendation No. 18, page 564 : (No proposals)

Questions related to radiotelegrams and radiotelephone calls

Chapter IX, Articles 37-40, RR1496-1550 : DT/2 pages 425-427 Appendix 21, page 439 : (No proposals) Appendix 22, page 440 : (No proposals) Additional Radio Regulations Articles 1AR-14AR, page 455, RRAR2001-2165 : DT/2 pages 677-701

<u>Note</u>: Document No. DT/2 as distributed on 19/20 September contains the proposals appearing in Documents Nos. 1 to 118.

5.

6.

7.

8.

Document No. DT/3-E Page 3

C. A list of all proposals transmitted to Committee 6 (Operation) for consideration up to Document No. 143 is reproduced in the Annex attached hereto.

The information supplied in this document is intended to serve as a basis for discussion at the first meeting of the Committee and it is the hope of the Chair that Delegations will find the crossreferences helpful.

> Konstantin ČOMIĆ Chairman

Annex : 1

Document Nº DT/3-F/E/S Page 4

ANNEXE

Liste de toutes les propositions publiées dans les documents (jusqu'au Document N° 143) et qui ont été soumises à l'examen de la Commission 6 (Exploitation). Les symboles ci-après ont été utilisés :

- 4/6 = Proposition devant être examinée conjointement par les Commissions 4 et 6.
- p/4 = Proposition devant être examinée tout d'abord par la Commission 6 puis transmise, avec la décision correspondante prise par cette dernière, à la Commission 4 qui statuera en dernier ressort.
- a/4 a/5 = Proposition sur laquelle la Commission 6 se prononcera en dernier ressort lorsqu'elle aura été examinée par la Commission 4 ou la Commission 5 selon les indications données ci-dessous.

ANNEX

List of all proposals published up to Document No. 143 which have been transmitted to Committee 6 (Operation) for consideration. The following symbols have been used :

4/6 = Proposal to be considered jointly by Committees 4 and 6.

p/4 = Proposal to be considered first in Committee 6 and then passed to Committee 4, together with the related decision of Committee 6, for final disposal.

a/4 a/5 = Proposal to be disposed of finally in Committee 6 after consideration in Committee 4 or Committee 5 as shown.

ANEXO

Lista de las proposiciones publicadas en los documentos (hasta el Documento N.º 143), sometidas a estudio de la Comisión 6 (Explotación). Se han utilizado los siguientes símbolos:

4/6 = Proposición para examen conjunto por las Comisiones 4 y 6.

p/4 = Proposición para estudio en primer lugar por la Comisión 6, que se transmitirá luego con la oportuna decisión a la Comisión que decidirá.

a/4 a/5 = Proposición para su examen definitivo por la Comisión 6, una vez que haya sido estudiada por la Comisión 4 o la Comisión 5, según se indica a continuación.

Annexe au Document N° DT/3-F/E/S Page 5

Proposition Nº Proposal No. Proposición N.º ·5 6 D (**3-**5) (6-15) D ${\mathbb D}$ (16 - 19)7 a/5 a/5 F .8 (13 - 14)8 (25-29) F F 13 (77-80) (81)p/4 F 14 F 14 (82-88) <u>USA 17</u> (24)USA 21 (40-44)USA 22 (50,52-54) p/4 USA 22 (53) USA 28 (63-65) a/5 USA 29 (66) DNK/ISL/NOR 30 (2-3) I 31 (1) I 36 (28) a/5 DNK 38 (1-17) CAN 44 (23)+Corr CAN 45 (34) p/4 CAN 45 (36) (8) (9) URS 52 URS 53 AUS 54 (5**-**6) G 58 (7)a/4 G 59 (8-11) G 60 (12,13) G 60 (18-20) G 60 (22-24) G 60 (63) G 60 (17) G 61 (69) a/4a/4 G 62 (70) G 63 (71-73) G 64 (74-75) G 65 (76-79) (82-83) G 67 G 68 (100,84-88) (RR 863,866F) <u>a/5</u>

Annexe	au	Document	No	DT/3-F/E/S
Page 6				

Proposal No. Proposición N.º			
HOL 70 (3)			a/5
HOL 74 (17-22)			
HOL 75 (24,33) G 76 (27-28)			
- G 76 (27-28)			a/5 a/5
G 77 (41)	1		a/5
<u>G 78 (90,91,93,94,96)</u> G 79 (98)			
POL 83 (4)			a/5
<u>I 84 (6,7)</u>			a/5
<u> </u>			a/5
I 86 (53)		-	a/5 a/5
I <u>88 (56-71)</u>			
I 89 (72-73)			
I 89 (78-84)			
<u>I 90 (85)</u>	`	·	
G 91 (48-53) D 92 (18)			
D 92 (18) D 93 (19)			
D 94 (20,24-27)			
SUI 101 (1)			
ISR 102 (2)			
CAN 106 (39)			
CAN 107 (35)		p/4	
CAN 108 (26-27)			
F 109 (92-95)			- / 4
F 109 (96-97) F 109 (98-103)			a/4
$ \frac{109(90-103)}{F 109(106-107)} $			
F 110 (108-103)			
F 111 (131-138)			
F 111 (148)		·	a/4
F 111 (149,150,154)			a/5
F 111 (151-153, 155-157)	ļ		
F 111 (160-185)			
G 113 (57)	. 10		
<u>G 113 (58)</u>	4/6		- / -
G 113 (59) G 118 (61)			a/5
SG 119			
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Proposition Nº

Annexe au Document N° DT/3-F/E/S Page 7

Proposit Proposal Proposic	No.	- - -		
AUS 122 ISR 129 ISR 130	(2)			a/5
ISR 130 NZL 131 NZL 133	(7-10) (27)			a/4
NZL 135 NZL 135 NZL 135 NZL 135	(2) (1-3,5)		4/6	,
B 137 B 138	(18,19) (38,39) (52,53)			
B 142 B 142	(79-97) (142,109,1 (114-120)	10)	•	
B 143	(126-127)			

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/4-E 19 September 1967 Original : English

COMMITTEE 4

PROPOSALS MADE BY ADMINISTRATIONS WHICH WERE PUBLISHED

IN DOCUMENTS Nos.1 TO 143

The following Documents and proposal numbers concern the agenda of Committee 4 meeting scheduled on 20 September, 1967.

<u>Article 28, Section III</u>: F/12 (71,72,73); USA/20 (33); USA/24 (58); I/35 (24); CAN/43 (16); AUS/54 (7); G/58 (5); G/61 (67); G/66 (80); ISR/130 (6); B/140 (65,66,67).

<u>Article 28, Section VI</u>: F/12 (74); F/14 (81); USA/20 (36); DNK/ISL/NOR/30 (1); 1/36 (27); CAN/43 (19); G/60 (21); HOL/72 (14); J/84 (13); J/89 (75,76,77); J/90 (88); NZL/135 (4); B/140 (73).

Article 28, Section V, as far as telegraphy is concerned :

F/8 (19); USA/20 (35); CAN/43 (18); G/58 (5) 992; G/66 (80) 992; J/84 (11) 992; B/140 (72) 992.

Point 2.3 of the Conference Agenda (Doc. No. 1) :

RFA/3 (1); F/9 (56); USA/17 (16); I/32 (11); CAN/40 (30); G/56 (2); POL/82 (2); J/85 (33); B/137 (9).

Point 2.4 of the Conference Agenda (Doc. No. 1) :

USA/17 (17,18,19); I/32 (12); CAN/40 (3,4,5,6,7,8,9, 10,11); URS/49 (4); USA/69 (52); DNK/NOR/S/104 (1); F/128 (188); NZL/132 (6,7); NZL/133 (12).

Point 2.5 of the Conference Agenda (Doc. No. 1) :

F/8 (9); CAN/40 page 8; URS/49 (5).



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

CONFERENCE MARITIME

GENÈVE, 1967

Addendum Nº 1 au Document Nº DT/5-F/E/S 22 septembre 1967

SEANCE PLENIERE PLENARY MEETING SESION PLENARIA

Dans la liste annexée au Document N° DT/5, il y a lisu d'ajouter les indications suivantes :

Point à l'O.J.	Pays	Nº du document	Page
Point 2.4	GRC	160	1-2
" 2.4	USA	159	1-21

The following indications should be added to the list annexed to Document No. DT/5:

Agenda item	Country	Document No.	Page
2.4	GRC	160	1-2
2.4	USA	159	1-21

Añádanse las indicaciones siguientes en la lista anexa al Documento N.º DT/5:

Punto del Orden del día	Pais	N.º del documento	Página
2.4	GRC	160	1-2
2.4	USA	159	1-21



INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/5-E 19 September 1967 Original : French

PLENARY MEETING

PROPOSALS RELATING TO THE WORK

OF THE CONFERENCE

Document No. DT/2 contains the texts of specific proposals relating to the provisions of the Radio Regulations and the Additional Regulations, and the reasons given by the Administrations concerned.

These proposals are often accompanied by general comments on agenda items which could not be included in Document No. DT/2.

These comments should not be lost sight of. The numbers of the documents concerned and the pages on which the comments appear are therefore given in the attached list.



Document No. DT/5-E Page 2

			·
Subject or agenda item	Source (country symbol)	No. of document and reference	Pages
Item UK-1 Operators' certificates	G	68 Comments	1 - 2
Item UK-5 Categories of ship stations	G ·	64	1
Item UK-10 Reduction of the guard-band for frequency 2182 kc/s	G	79	1 - 11
Item ISR-1 Watch-keeping system in the HF bands	ISR	130 ISR/130(3)	1 - 2
Item US-F Establishment and use of a manual for use by the Maritime Mobile Service	USA	28 Basic data	2
Item 1 "' "' "'	B CAN G I IND USA	136 Introduction 39 Comments 76 G/76(25) 31 Foreword 96 IND/96(1) 125	1 1 - 2 1 - 2 1 - 2 1
Item 2.1	CAN F G USA	40 Comments 9 F/9(55) 56 G/56(1) 17 USA/17(14) Basic data	1 1 1 1 - 2
Item 2.2	CAN G USA	40 Comments 56 G/56(1) 17 USA/17(15)	1 3
Item 2.4	CAN F I	40 Comments 128 F/128(188) Comments 32 Foreword	2 1 - 2 3 - 4
11 11 11 11	USA USA	I/32(12) and I/32(14) 17 Note 69 USA/69(52)	4 7 -
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	Subject or agenda item	Source (country symbol)	No. of document and reference	Fages
Item	2.5	F	9 F/9(57)	2
Item	3	F	10 Last paragraph	15
11	11	G	77 Comments	1-2
. 11	н	HOL	72	31
IT	11	JOR	147	4
11	11	USA	18 USA/18(27)	
			Basic data	8 - 9
11	11	USA	123 Appendix 15	1
			USA/123(74)	
			Basic data	7
11	11	USA	124 Appendix 25	
			USA/124(75) - (81)	1 - 5
Item	4	F	11	Ĺ
11	т ,и	G	57 Comments	1 - 2
Ħ	n	G	112	1
**	Π.,	USA	19	1
11	**	USA	55 USA/55(49)	
			Basic data	9 - 1
			USA/55(51)	
	· ·		Information	14 - 1
Item	5	CAN	43 Comments	1.
11	11	G	58 Comments	1
Item	6	В	141 Comments	1
11	1	CAN	44 Comments	1 - 2
11	n	G	59 Comments	1
Ħ	11	USA	21 USA/21(44)	
			Basic data	5 - 6
Item	7.1	CAN	45 Comments	l
11	n	G	60 Comments	1-3
11	II	HOL	75	1
11	11	USA	22	1
Item	7.2	CAN	45 Comments	1
11	1 • -	G	60 Comments	7
11	11	USA	22 USA/22(52)	. 1
			Basic data	7 - 9
				. /

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	Subject or agenda item	Source (country symbol)	No. of document and reference	Pages
Item " "	7•3 "" "	CAN G G USA	45 Comments 91 Selective calling 113 Selective calling 22	2 1 - 3 1 11
Item "	7•4 "	CAN G ISR	45 Comments 60 129 ISR/129(2)	2 13 1
Item "	7•5 "	G USA	60 22	14 12
Item "	7.6 "	CAN G USA	45 Comments 60 22	4 15 12

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UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

CONFERENCE MARITIME

GENÈVE, 1967

Document N° DT/6-F/E/S 20 septembre 1967 Original : français, anglais, espagnol

GROUPE DE TRAVAIL 6A WORKING GROUP 6A GROUPO DE TRABAJO 6A

PROJET D'EBAUCHE DES TRAVAUX DU GROUPE DE TRAVAIL 6A AVEC REFERENCES RENVOYANT AUX PROPOSITIONS CORRESPONDANTES

> DRAFT OUTLINE OF THE WORK OF WORKING GROUP 6A WITH CROSS-REFERENCE TO RELATED PROPOSALS

CLASIFICACIÓN POR MATERIAS DE LAS PROPOSICIONES OBJETO DEL GROUPO DE TRABAJO 6A



Document N°DT/6-F/E/S Page 2

Questions concernant la procédure radiotélégraphique 1.

Matters of radiotelegraph procedure 1.

Cuestiones de procedimiento radiotelegráfico 1.

	<u>DT/2</u>	<u>page - página</u>
<u>Art. 29</u>	D6(12) G60(13) G61(69)	218 219 217,218,219 211 211 216 218 217
<u>Art. 30</u>	G65(77) F111(136,137,	224
	138)	223
<u>Art. 31</u>	_	

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1_ 3

- 2. Questions concernant la procédure radiotéléphonique
- 2. Matters of radiotelephone procedure
- 2. Cuestiones de procedimiento radiotelefónico

DT/2 page - página

<u>Art. 33</u>	D6(13,14) F8(25,26,27,28,29) F13(77) USA21(41) I31(1) DNK38(1,2,3,4,5,6,7,8) G59(8) G65(78) HOL70(3) HOL74(18) G77(41) G78(93) G79(98) J84(14,15,16) J88(59,60) G91(52) F109(94,95,96,97,98, 99,100,101) F111(148,149,150,151, 152,153,154) G113(59) G118(61)
<u>Art. 34</u>	F13(78) USA21(41) G65(79) G78(9 4)

F109(102,103)

F111(155,156,157)

_ 292,300,305,317 312 289,295,311,313 292 285,289,295,306,311,312 324 295, 313, 317 284 284 292,301,305 283,306,312 301 292,301,305 284 292 289,299,300,305 289,290,299, 305, 311, 312, 313 301 291 324 325 324 324 322,323

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- 3. Documents de service
- 3. Service documents
- 3. Documentos de servicio

		DT/2 page – página
<u>Art. 20</u>	USA28(63) J86(53) CAN108(26,27) F109(93) F111(132,133)	134 133 133 134 134,135
<u>App. 9</u>	G91(53) F109(116)	448 447
<u>App. 10</u> DNK,ISL	USA17(24) ,NOR30(3) F109(107) B137(18,19) B142(120)	453 454 453

A. CHASSIGNOL Président UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

CONFERENCE MARITIME

GENÈVE, 1967

Document N° DT/7-F/E/S 20 septembre 1967 Original : français/anglais/español

GROUPE DE TRAVAIL 6B WORKING GROUP 6B GRUPO DE TRABAJO 6B

PROJET D'EBAUCHE DES TRAVAUX DU GROUPE DE TRAVAIL 6B AVEC REFERENCE RENVOYANT AUX PROPOSITIONS CORRESPONDANTES

> DRAFT OUTLINE OF WORK OF WORKING GROUP 6B WITH CROSS-REFERENCE TO RELATED PROPOSALS

CLASIFICACIÓN POR MATERIAS DE LAS PROPOSICIONES OBJETO DEL GRUPO DE TRABAJO 6B



Document N° DT/7-F/E/S Page 2 Página 2

<u>Code international des signaux revisé</u>
 <u>Revised International Code of Signals</u>
 <u>Código internacional de señales revisado</u>

DT/2 Page - Página

<u>App. 13</u>	
D 6 (6-10) D 6 (p.20) F 13 (80) F 13 (Draft Res.) USA 21 (42) USA 21 (44) (Draft Res.) DNK 38 (13) (14) DNK 38 (15, 16) URS 52 (8) G 59 (10) HOL 74 (19) J 88 (62-68) G 92 (18)	511-27 780-81 779 528 782 487, 488 488-494, 494-5 528 496-507 508 508-10 528
COORD IMCO	
F 13 (80) USA 21 (44) CAN 106 (39)	779 575, 782 795
<u>App. 16</u>	
D 7 (16-18) F 13 (79) USA 21 (43) DNK 38 (17) CAN 44 (23) URS 52 (8) G 59 (11) HOL 74 (22) J 88 (69-71)	573 566-67 574-75 565 563-65 528 568 569-70 571-72
Rec. No.22	
D 6 (11) DNK 38 (13) HOL 74 (20)	+7 487 705
Rec. No. 30	
D 7 (19) DNK 38 (17) HOL 74 (21)	573, 715 565 715
Art. 19 (SUP RR 760)	
USA 21 (40) J 88 (56) HOL 74 (17)	121 121 121

Document N° DT/7-F/E/S Page 3 Página 3

2. Questions relatives à la détresse et à la sécurité

2. Questions related to distress and safety

2. Cuestiones relativas al socorro y a la seguridad

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<u>Art. 19</u>			
G 60 (19) G 60 (20)	· a • •	• • • • • • • • •	121 125
Art. 36		•	
D 6 (14-15) F 13 (77) F 13 (78) F 14 (82) F 14 (83-88) USA 21 (41) USA 22 (52) DNK/ISL/NOR 3 I 36 (28) DNK 38 (9-12)	9 10	· ·	- 398 400 406 387, 398, 400 412 405 409 387 398
CAN 45 (34) G 59 (9) G 60 (22) G 60 (23) HOL 75 (24) G 78 (96) POL 83 (4) J 88 (61) J 89 (78-84) D 93 (19) D 94 (24-27)	11 . 12 . 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>399 400 - 399 387 407 387, 408 400 775 388 410 398-9 387 400</td>	399 400 - 399 387 407 387, 408 400 775 388 410 398-9 387 400
F 111 (160-18	27 • 160 161-2 163 164-5 166-76		411-12 391 397 399 401 415-17 421-23
в 142 (114–11	177 - 84 9)	÷ • • • • • • •	+ς⊥-ς) ⊷
App 20			
G 58 (7) G 63 (72) .		6 • • • • • • • •	651 651

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										Ī	DT/	2 Page - Página
App 20 A												
G 60 (24) .	• •	• •	•	•	٠	•	•	•	•	•	•	655
<u>Art. 1</u>												
USA 22 (50) G 60 (18) G 60 (19-20) J 89 (72-73) D 94 (20)		8 9 9 8 9 9 9 9 9 9 9 9 9 9	•	• • • • • • •	•		• • •	• • •	•	•	• • • • •	3 4 121, 125 4 4
B 142 (109-1	LO).	••	٠	9	•	•	•	•	•	٠	٠	-

H.A. FEIGLESON Président

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document N° DT/8-F/E/S 20 septembre 1967 Original : français, anglais espagnol

GROUPE DE TRAVAIL 6C WORKING GROUP 6C GRUPO DE TRABAJO 6C

PROJET D'EBAUCHE DES TRAVAUX DU GROUPE DE TRAVAIL 6C AVEC REFERENCES RENVOYANT AUX PROPOSITIONS CORRESPONDANTES

> DRAFT OUTLINE OF THE WORK OF WORKING GROUP 6C WITH CROSS_REFERENCE TO RELATED PROPOSALS

CLASIFICACIÓN POR MATERIAS DE LAS PROPOSICIONES OBJETO DEL GRUPO DE TRABAJO 6C



Document N°DT/8-F/E/S Page 2

Dispositions générales applicables aux stations de navire 1.

General provisions to be applied to ship stations 1.

.

1. Disposiciones generales aplicables a las estaciones de barco

•			DT/2 page - página
<u>Art. 28 Sect. I</u>	G/60(12)	ADD	173
	G/63(73)	SUP	173
<u>App, 11</u>	USA/28(64)	MOD	457
	(65)	MOD	45 7
<u>Rec. 27</u>	D/5(5)	SUP	709

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DT/2 page - página

------169,463

141,156

139,140,144

2. Questions relatives au personnel

2. Questions related to personnel

2. Cuestiones relativas al personal

	•
<u>Art. 23</u>	F/8(13) $F/8(14)$ $USA/29(66)$ $AUS/54(5)$ $G/68(100)$ $(84,85)$ (86) (87) $G/76(27)$ (28) $J/84(6)$ (7) $ISR/102(1)$
<u>Art. 24</u>	G/68(88)
<u>Art. 25</u>	D/5(3,4) USA/22(54) CAN/45(36) URS/53(9) AUS/54(6) G/60(63) G/64(74,75) HOL/75(33)

- 3. Questions relatives aux appels en radiotélégraphie et en radiotéléphonie
- 3. Questions related to radiotelegrams and radiotelephone calls
- 3. <u>Cuestiones relativas a las llamadas radiotelegráficas y radiotelefónicas</u>

DT/2 page - página

<u>Art. 40</u>	F/111(185)	427
<u>RR AR</u>	G/67(82)	69 0
	(83)	701
	F/110(108-110)	681
	(111-112)	682
	(113-116)	685
	(117-121)	686
	(122-123)	689
	(124-126)	690
	(127–128)	693
	(129–130)	697

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/9-E 20 September 1967 Original : English

WORKING GROUP 5A

POWER LIMITS GIVEN IN ARTICLE 23

After consultation it has been agreed that Working Group 5A should consider the proposals mentioned below concerning power limits prescribed in Article 23 of the Radio Regulations. The proposals are those given in Document No. DT/2. It may therefore be other proposals concerning the same subject in later documents.

It is desirable that Working Group 5A could take early decisions with respect to power limits in Article 23 to enable Commission 5 to transmit its findings to Commission 6.

The pr	oposals	are	the	following	:	
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G/76(27)	MOD 863
F/8(13)	MOD 863
J/84(6)	MOD 863
USA/29(66)	MOD 863
G/68(84)	ADD 866F
G/76(28)	MOD 903
F/8(14)	MOD 903
J/84(7)	MOD 903
USA/29(66)	MOD 903

Chairman of the Working Group 5A :

P. AAKERLIND



INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document N° DT/10-F/E/S 22 septembre 1967 Original : français, anglais espagnol

GROUPE DE TRAVAIL 6B WORKING GROUP 6B GRUPO DE TRABAJO 6B

1. Radiobalise de repérage en cas de sinistre

1. <u>Emergency Position - indicating Beacon</u>

1. Radiofaros de localización en caso de emergencia

Proposition Proposal Proposición	DT/2 page – página	<u>Art. 36</u>
G/60(22)	387	1388A
HOL/75(24)	387	1388a
D/94(24)	387	1388A
NZL/135(5)		1388A
D/94(25)	400	1466A
D/94(26)	400	1473A
1/36(28)	409	1476
B/142(114-119)		1476A
D/94(27)	411-412	1476A
DNK/ISL/NOR/30(2)	405	1476A
F/14(83-88)	406	1476A
G/60(23)	407	1476A
HOL/75(24)	408	1476A
J/ 89(78–84)	410	1476A
USA/22(52)	412	1476A
CAN/45(34)	يسر	í



Document Nº DT/10-F/E/S Page 2

- 1.1 Définitions correspondantes
- 1.1 <u>Related definitions</u>
- 1.1 Definiciones correspondientes

Proposition Proposal Proposición

USA/22(50) G/60(18) J/89(72-73) D/94(20) B/142(109-110) NZL/135(2)

- 1.2 <u>Caractéristiques techniques correspondantes</u>
- 1.2 Related technical characteristics
- 1.2 Características técnicas correspondientes

Proposition Proposal Proposición

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0/60(24)

- 1.3 Identification
- 1.3 Identification
- 1.3 <u>Identificación</u>

Proposition Proposal Proposición	DT/2 page - página	<u>Art. 19</u>
G/60(19) NZL/135(3)	117	736 736
G/60(20)	151	768a
G/60(20)	125	77 7 A

<u>Art. 1</u>

Appendice 20A Appendix 20A Apéndice 20A

2. Procédures pour les cas de détresse, d'urgence et de sécurité

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2. Distress, urgency and safety procedures

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2. Procedimientos de socorro, urgencia y seguridad

Proposition		
Proposal	DT/2 page – página	RR
Proposición		
$\mathcal{D}((a b ac))$	· · · ·	1216A
D/6(14-15)		
G/59(9)	387	1388A
DNK/38(9)	387	1393
USA/21(41)	387	1393, 1393.1
J/88(61)	388	1400
F/111(160)	391	1408
F/111 (1 61)	397	1426
F/111(162)	397	1427A
DNK/38(10)	398	1430
F/13 (77)	398	1430
USA/21(41)	398	1430, 1430.1
D/93(19)	398-399	1431A
F/111(163)	399	1448A
DNK/38(11)	399	1451
F/13(78)	400	1451
USA/21(41)	400	1451, 1451.1
DNK/38(12)	400	1460
USA/21(41)	400	1460, 1460.1
G/78(96)	400	1462A
F/14(82)	400	1470
F/111(164)	401	1472
F/111(165)	401	1474
F/111(166-176)	415-417	1477-1487
F/111(177-184)	421-423	1488-1494
G/58(7)	651	APP 20
G/63(72)	651	APP 20
-, -, -, -,	~) <u>-</u>	

H.A. FEIGLESON Président-Chairman-Presidente

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/11-E/F/S 21 September 1967 Original: English, French, Spanish

COMMITTEE 4

The attached document and proposal numbers concern the Agenda for the second meeting of Committee 4.



Document No. DT/11-E/F/S Page 2

					DT No. 2 page - página
1.	<u>Art. 5</u>				
	<u>RR</u> No				
	158 158	MOD MOD	CAN/46 U S A/25	(24) (59)	9 9
	167 167	MOD MOD	CAN/46 USA/25	(25) (60)	9 9
	200	MOD	CAN/145	(40)	~
2.	Art. 7	Sec.	<u>L</u>		
	437A	ADD	CAN/40	(12)	45
	437B	ADD	CAN/40	(12)	45
	438	SUP	C/78	(89)	45
	439	SUP	G/78	(89)	45
	442	MOD	G/79	(97)	46
	451 451	MOD MOD	AUS/122 HOL/72	(17) (9)	64
	451A	ADD	HOL/72	(9)	64
	452 452 452 452 452	MOD MOD MOD MOD MOD	G/77 AUS/122 F/8 HOL/72 I/33	(39) (18) (10) (9) (18)	60
	452.1 452.1 452.1	MOD MOD MOD	AUS/122 G/77 HOL/72	(19) (39) (9)	- 60 65
• -	453 453 453 453 453 453	MOD MOD MOD MOD MOD	AUS/122 G/77 HOL/72 I/33 NZL/133	(20) (39) (9) (18) (8)	61 65 67
	453.1 453.1	MOD MOD	AUS/122 HOL/72	(21) (9)	6 5

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			•	DT No. 2, page - página
454 454	MOD MOD	AUS/122 ISR/130 (corrigendum)	(22) (4)	- -
455 455 455	MOD SUP MOD	AUS/54 G/78 L/90	(4) (89) (86)	57 61 70
464A	ADD	CAN/40	(14)	81
464в	ADD	CAN/40	(14)	81
App. 1	. <u>5A</u>		۰.	
	MOD	AUS/122	(10)	-
	MOD	B/138	(21)	~
	MOD	B/138	(22)	
	MOD	CAN/107	(35)	533
	MOD	F/10	(60)	536
	MOD	F/14	(187)	536
	MOD	G/77	(36)	540
	MOD	G/77	(37)	538
	MOD	HOL/72	(12)	547
	ADD	I /3 2	(13)	549
	MOD	I /3 2	(15)	550
	MOD	ISR/130	(15)	
	MOD	J/86	(34)	554
	MOD	J/86	(35)	554
	MOD	J/86	(36)	554
•	MOD	J/86	(38)	554
	MOD	URS/50	(6)	555
	MOD	USA/18	(26)	556

3.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

2.

Document No. DT/12-E (Rev.) 28 September 1967 Original : English/Spanish French

COMMITTEE 4

DRAFT

FIRST REPORT OF

COMMITTEE 4

- The attached texts, which concern Nos. 158, 167, 200, 437A, 438, 439, 451, 453, 974, 974.1, 975, 976, 978, 981, 995, 997, 1155, 1156 and 1157 of the Radio Regulations, have been unanimously adopted by Committee 4.
 - Concerning No. 992 of the Radio Regulations, the text has been co-ordinated with the Chairman of Committee 5 and the part in square brackets will be finally agreed upon in Committee 5.

F.G. PERRIN Chairman of Committee 4

GFNÈ

Annex : 1

<u>Document No. DT/12-E (Rev.</u>) Page 2

ANNEX

MOD

MOD

SUP

ADD

158

200

Limited to coast telegraph stations (Al and Fl only). Exceptionally, the use of A7J is permissible subject to the bandwidth not exceeding that normally used for Al or Fl emissions in the bands concerned.

167 Only classes Al or Fl, A4 or F4 emissions are authorized in the band 90 - 160 kc/s for stations of the fixed and maritime mobile services. Exceptionally, A7J emission is also authorized in the band 90 - 160 kc/s for stations of the maritime mobile service.

437A § 7 (bis). Stations of the maritime mobile service employing single sideband radiotelegraph transmissions shall use upper sideband emissions. The discrete frequencies specified in the Radio Regulations for class A2H emission in the maritime mobile service such as 410, 425, 448, 454, 468, 480, 500, 512 and 8364 kc/s, shall be used as carrier frequencies.

NOC 438

NOC 439

MOD 451

Note to the Editorial Committee

ADD 437A should be inserted following the title "Section IV. Maritime mobile service" and before No. 438.

MOD 451 concerns only the French text.

Annex to Document No. DT/12-E (Rev.) Page 3

MOD (title)	453	g) Coast stations, wideband and manual telegraphy, facsimile, special and data transmission systems and direct printing telegraph systems.
MOD	974 .	a) send class A2 or A2H ¹ and receive A2 and A2H with carrier frequency on 500 kc/s;
ADD	974.1	1 The type of A2 or A2H used shall be by the on-off keying of the modulated emission.
MOD	975	b) send, in addition, class Al and either A2 or A2H emissions on at least two working frequencies;
MOD	976	c) receive, in addition, class Al, A2 and A2H emissions on all other frequencies necessary for their services.
MOD	978	§ 17. In Region 2, any radiotelegraph station installed on board a ship which uses frequencies in the band 2088.5 - 2093.5 kc/s for call and reply shall be provided with at least one other frequency in the authorized bands between 1605 and 2850 kc/s.
MOD	981	b) changes of frequency in transmitting apparatus shall be effected as quickly as practicable, but within fifteen seconds in any event;
MOD	992	§ 22. (1) Any aircraft following a maritime course and required by national or international regulations to communicate, for safety purposes, with stations of the maritime mobile service shall be capable of trans- mitting preferably class A2 or A2H and receiving preferably class A2 and A2H emissions on the carrier frequency 500 kc/s or, / on the carrier frequency 2182 kc/s, transmitting class A3 or A3H and receiving class A3 and A3H emissions./

Note to the Editorial Committee

In No. MOD 992 the part in square brackets will be finally agreed upon in Committee 5.

Annex to Document No. DT/12-E (Rev.) Page 4

MOD	995	 in the bands between 405 and 535 kc/s, be able to transmit with carrier frequency on 500 kc/s, using class A2 or A2H emissions, / (but see No. 677) /. If a receiver is provided for any of these bands, it shall be able to receive class A2 and A2H emissions on the carrier frequency 500 kc/s; 	
MOD	997	- in the bands between 4000 and 27 500 kc/s, be able to transmit on the carrier frequency 8364 kc/s using class A2 or A2H emissions. If a receiver is provided for any of these bands, it shall be able to receive class A1, A2 and A2H emissions throughout the band 8320 to 8745 kc/s;	
SUP .	1155		
MOD	1156	§ 20. (1) Stations installed on ships shall, at the discretion of the administration controlling the ship station concerned, use either the high traffic band (see No. 1151) or the low traffic band (see No. 1153), depending on their traffic requirements.	
SUP	1157		

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/12-E 22 September 1967 Original : English

COMMITTEE 4

DRAFT REPORT TO THE PLENARY MEETING

The attached texts, which concern Nos. 158, 167, 200, 437A, 438, 439, 453, 974, 974.1, 975, 976, 978, 981, 992, 995, 997 and 1156 of the Radio Regulations, have been unanimously adopted by Committee 4 at its First, Second and Third Meetings.



Document No. DT/12-E Page 2

•	MOD	158	Ex	mited to coast telegraph stations (Al and Fl only). ceptionally, the use of A7J is permissible subject to the ndwidth not exceeding that normally used for Al or Fl issions in the bands concerned.
	MOD	167	in ma al	ly classes Al or Fl, A4 or F4 emissions are authorized the band 90 - 160 kc/s for stations of the fixed and ritime mobile services. Exceptionally, A7J emission is so authorized in the band 90 - 160 kc/s for stations of e maritime mobile service.
	SUP	200	(a	s far as radiotelegraphy is concerned).
	MOD	200		ommittee 5 is considering proposal CAN/145(40) which supported by Brazil).
		•	-	the title "Section IV. Maritime Mobile Service" and 438, add the following :
t	ADD	437A	em sh si	(bis). (1) Stations of the maritime mobile service ploying single sideband radiotelegraph transmissions all use upper sideband emissions. Stations using single deband radiotelegraph emissions on designated frequencies
		· .	83	ch as 410, 425, 448, 454, 468, 480, 500, 512 and 64 kc/s, shall use carrier (reference) frequencies of e same value.
	NOC	438		
	NOC	439		
	MOD (tit		fac	ast stations, wide-band radiotelegraph systems, esimile, special transmission systems, teleprinters, ta transmission and manual telegraphy.
	MOD	974	a)	send class A2 or A2H 1 and receive A2 and A2H with carrier frequency on 500 kc/s.
	*****			• · · · · · · · · · · · · · · · · · · ·
	ADD 9	974.1	· · · · 1	The type of A2 and A2H used shall be by the on-off keying of the modulated emission.
	MOD	9 7 5	b)	send, in addition, class Al and A2 or A2H emissions on at least two working frequencies.

Document No. DT/12-E Page 3

MOD 976	c) receive, in addition, class Al, A2 and A2H emissions on all other frequencies necessary to their services.
MOD 978	§ 17. in Region 2, any radiotelegraph station installed on board a ship which uses frequencies in the band 2088.5 - 2093.5 kc/s for call and reply shall be provided with at least one other frequency in the authorized bands between 1605 and 2850 kc/s.
MOD 981	b) changes of frequency in transmitting apparatus shall be effected as quickly as practicable, but within fifteen seconds in any event.
MOD 992	§ 22.(1) any aircraft following a maritime course and required by national or international regulations to communicate, for safety purposes, with stations of the maritime mobile service shall be capable of transmitting preferably class A2 or A2H and receiving preferably class A2 and A2H emissions on the carrier frequency 500 kc/s or, on the frequency 2182 kc/s, transmitting class A3 or A3H and receiving class A3 and A3H emissions.
MOD 995	- in the bands between 405 and 535 kc/s, be able to transmit with carrier frequency on 500 kc/s using class A2 or A2H emissions, (but see No.677). If a receiver is provided for any of these bands, it shall be able to receive class A2 and A2H emissions on 500 kc/s.
MOD 997	 in the bands between 4000 and 27 500 kc/s, be able to transmit on 8364 kc/s using class A2 or A2H emissions. If a receiver is provided for any of these, it shall be able to receive class A1, A2 and A2H emissions throughout the band 8320 to 8745 kc/s.
SUP 1155	
MOD 1156	§ 20.1 Stations installed on ships shall, at the discretion of the Administration controlling the ship station concerned, use either the high traffic band (see No. 1151) or the low traffic band (see No. 1153), depending on their traffic requirements.
SUP 1157	

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/13-E 25 September 1967 Original: English

WORKING GROUP 6B

DRAFT TERMS OF REFERENCE FOR WORKING GROUP 6B AD HOC

Recognizing that the Conference is not competent ho modify or delete signals of Appendix 13 (Sections I and II)

- to consider proposals for the addition of new codes to Sections I and II (which would be indicated by a footnote stating for use by the Maritime Mobile Service) and a possible amendment to the title of Appendix 13 providing for use in radiotelephony communications,
- to consider proposals for the insertion of any modified codes for the Maritime Mobile Service in a new Section III of Appendix 13,
- to consider proposals for a draft resolution relating to the desirability of aligning the revised International Code of Signals to the pertinent Radio Regulations revised by the Maritime Conference, Geneva 1967,
- to consider proposals for a draft resolution relating to the areas of responsibility for signalling codes of the I.T.U. and of I.M.C.O.

H.A. FEIGLESON Chairman Working Group 6B

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/14-E 25 September 1967 Original : French

WORKING GROUP 6A

DRAFT

FIRST REPORT OF WORKING GROUP 6A TO COMMITTEE 6 (OPERATION)

<u>General radiotelegraph procedure</u> (Article 29, Sections I, II and III in part)

- 1. Having considered all proposals on the above provisions submitted to it, Working Group 6A <u>unanimously agreed</u> the <u>statu quo</u> or revision shown in the annex attached hereto.
- 2. Radio Regulations 1004 and 1005

The further consideration of these provisions is deferred pending decisions by Working Group 6B on related proposals which it must examine.

3. Radio Regulation 1012A

The Working Group <u>agreed</u> that this new provision should form a sub-paragraph to be inserted between sub-paragraphs 6(1) and 6(2) of Article 29.

Furthermore the attention of <u>Working Group 6B</u> is invited to the need to include in Appendix 13, Section II, the signal = (BT) appearing in Radio Regulation 1012A and which constitutes a signal to mark the separation between different parts of the same transmission.

> A. CHASSIGNOL Chairman

> > ARCHIVES U.I.T. GENEVE

Annex : 1

Docur	nent	No.	DT/	<u>′14–E</u>
Page	2			

ANNEX

Article 29

Section I

- NOC 1000
- NOC 1001
- NOC 1002

NOC 1003

1005

1012A

- 1004 _ held in abeyance
 - / held in abeyance/
 - Section II
- SUP 1006 NOC 1007
- 1011

Section III

- NOC 1012
- ADD
- (1) bis. However, in the maritime mobile service in the bands between 4000 and 27 500 kc/s the call consists of:
 - the call sign of the station called, not more than three times;
 - the word DE;
 - the call sign of the calling station, not more than three times;
 - the signal = (\overline{BT}) ;
 - the call sign of the station called, once only;
 - the letter K.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/15-E 25 September 1967 Original : English

WORKING GROUP 6B

I.M.C.O. RESOLUTION RELATING TO THE ADOPTION

OF THE REVISED INTERNATIONAL CODE OF SIGNALS

Attached hereto is the text of a resolution adopted by the Assembly of I.M.C.O. at its 4th Session in 1965. It is to be noted that the date of 1 January 1968 which appears twice in paragraph (d) under DECIDES has since been changed to 1 January 1969.

> H.A. FEIGLESON Chairman

<u>Annex</u> : 1

<u>Note</u>: Only the resolution is reproduced herein. The Annex to the I.M.C.O. resolution is not included.



Document No. DT/15-E Page 2

ANNEX

I.M.C.O.

ASSEMBLY - 4th Session

27 September 1965

RESOLUTION A.80(IV)

INTERNATIONAL CODE OF SIGNALS

The Assembly,

<u>Recalling</u> Resolution A.3 (I) whereby the Assembly decided that the Organization should assume all the functions then being performed by the International Code of Signals Committee and requested the Maritime Safety Committee to assume the duties of providing the necessary machinery in accordance with Article 29 (b) of the I.M.C.O. Convention;

<u>Taking note</u> with satisfaction that the Maritime Safety Committee, at its tenth session, was able to approve a revised Code of Signals;

<u>Taking note</u> also that consideration is still being given by the International Telecommunication Union to those parts of the revised Code which are related to the Radio Regulations;

<u>Bearing in mind</u> the important contribution which the revised Code of Signals will make to Safety at Sea;

<u>Decides</u>

(a) to adopt the revised Code of Signals;

(b) to endorse the recommendations of the Maritime Safety Committee which appear in the Annex to this Resolution regarding the distribution, carriage and periodical revision of the Code and the knowledge of the spelling tables;

(c) to authorize the Maritime Safety Committee to <u>incorporate any</u> amendments to the Code which may become necessary as a result of the next or any future Administrative Radio Conference for the maritime mobile service;

Annex to Document No. DT/15-E Page 3

(d) to specify 1 January 1968 as the date for bringing the Code into force provided that an Administrative Radio Conference for the maritime mobile service has given final consideration to those parts of the Code on which I.T.U. concurrence is required; however, in the event that I.T.U. concurrence is not obtained or any necessary amendments to the Code cannot be incorporated by the Maritime Safety Committee by 1 January 1968, every effort should be made to bring the Code into force as soon thereafter as is feasible if necessary the figure spelling table and the procedural signals should be adopted on an experimental basis;

(e) to invite Governments to supply, in due course, any comments by users of the Code so that it can be revised and kept up to date, as necessary;

(f) to invite the Secretary-General to communicate the Code, together with a copy of this Resolution, to all I.M.C.O. Member States, and to all States which were invited to be represented at the International Conference on Safety of Life at Sea, 1960.

Note : The Annex is not reproduced herein.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No.DT/16-E 25 September 1967 Original : English

COMMITTEE 4

During the fourth meeting of Committee 4 there appeared to be general agreement that an ad-hoc working group should be established to examine proposals relating to the revision of Appendix 15, Section A. Should the Committee decide to maintain its decision to establish this ad-hoc working group the attached draft terms of reference (composed by delegates from France, Italy and U.S.A.) are submitted for consideration at the fifth meeting of Committee 4, at 0930 hours on Tuesday, September 26 1967.

F.G. PERRIN

Chairman

Annex : 1

U.I.T. GENÈVE

Document No.DT/16-E Page 2

ANNEX

To draft a proposed Appendix 15-A taking into account :

- a) All relevant documents and proposals;
- b) the decisions of Committee 4 to reduce the frequency bands available to radiotelegraphy (low traffic bands in particular);
- c) the decisions of Committee 4 with respect to :
 - 1) channel spacings in the several sub-bands;
 - 2) number of channels per band;
 - 3) harmonic relationship;
 - 4) separate bands for teleprinter and manual high traffic.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/17-E 26 September 1967 Original : English

WORKING GROUP 6B

DRAFT

FIRST REPORT OF WORKING GROUP 6B TO COMMITTEE 6 (OPERATION)

Revision of Appendix 16 - Phonetic Alphabet and Figure Code

Abrogation of Recommendation No. 30 - Draft resolution

Article 1, new RR 68A - Emergency position-indicating radio beacon station

Article 36, new Section VIIIA - Emergency position-indicating radiobeacon signals

Having considered all proposals submitted to it on the above subjects, Working Group 6B <u>unanimously agreed</u> the draft new provisions reproduced in the Annex attached hereto.

> H.A. FEIGLESON Chairman

CHIVES

Annex : 1

Document No. DT/17-E

Page 2

ANNEX

(ex-DT/2 p. 574)

APPENDIX 16

Phonetic alphabet and figure code

(see Article 33)

MOD

1. When it is necessary to spell out call signs, service abbreviations and words, the following letter spelling table shall be used :

Letter to be transmitted	Word to be used	Spoken as *)
Α	Alfa	AL FAH
В	Bravo	BRAH VOH
С	Charlie	<u>CHAR</u> LEE or <u>SHAR</u> LEE
D	Delta	DELL TAH
Ē	Echo	ECK OH
F	Foxtrot	FOKS TROT
G	Golf	GOLF
Н	Hotel	HOH TELL
I	India	IN DEE AH
J	Juliett	JEW LEE ETT
K	Kilo	KEY LOH
\mathbf{L}	Lima	LEE MAH
М	Mike	MIKE
Ν	November	NO <u>VEM</u> BER
0	Oscar	OSS CAH
P	Papa	PAH PAH
Q P	Quebec	KEH BECK
R	Romeo	ROW ME OH

*) The syllables to be emphasized are underlined.

Annex to Document No. DT/17-E Page 3

Appendix 16 (cont.)

Letter to be transmitted	Word to be used	Spoken as *)
S	Sierra	SEE AIR RAH
T	Tango	TANG GO
U	Uniform	YOU NEE FORM or OO NEE FORM
V	Victor	VIK TAH
W	Whiskey	WISS KEY
X	X-ray	ECKS RAY
Y	Yankee	YANG KEY
Z	Zulu	<u>200</u> LOO

ADD

2. When it is necessary to spell out figures, the following table shall be used :

Figure to be transmitted	Code word	Spoken as
0	NADAZERO	NAH-DAH-ZAY-RCH
1	UNAONE	00-NAH-WUN
2	BISSOIWO	BEES-SOH-TOO
3	TERRATHREE	TAY-RAH-TREE
4	KARTEFOUR	KAR-TAY-FOWER
5	PANTAFIVE	PAN-TAH-FIVE
6	SOXISIX	SOK-SEE-SIX
7	SETTESEVEN	SAY-TAY-SEVEN
8	OKTOEIGHT	OK-TOH-AIT
9	NOVENINE	NO-VAY-NINER
Decimal point	DECIMAL	DAY-SEE-MAL

Note : Each syllable should be equally emphasized.

MOD

3. However, stations of the same country may use, when communicating between themselves, any other table recognized by their administration.

*) The syllables to be emphasized are underlined.

DRAFT RESOLUTION

RELATING TO THE ABROGATION OF RESOLUTION No. ... AND RECOMMENDATIONS Nos. 30, AND ... OF THE ADMINISTRATIVE RADIO CONFERENCE, GENEVA, 1959

The Maritime Conference, Geneva, 1967,

considering

that the texts in question are now obsolete

decides.

that the undermentioned Resolutions and Recommendations of the Administrative Radio Conference, Geneva, 1959, are abrogated:

Recommendation No. 30 relating to the Phonetic Figure Table.

Note to the Editorial Committee

It is anticipated that several other Resolutions or Recommendations may be included in this Resolution.

Annex to Document No. DT/17-E Page 5

Article 1 - Terms and Definitions

 $/ex_{G}/60(18)$

68A

Emergency position-indicating radio beacon station : A station in the mobile service the emissions of which are intended to facilitate search and rescue operations.

Article 36 - Distress Signal and Traffic, Alarm, Urgency and Safety Signals

Section VIIIA - Emergency position-indicating radiobeacon signals

 $\S44(bis)(1)$ The emergency positionindicating radiobeacon signal consists of :

a) for medium frequencies,

i) a keyed emission modulated by a tone of 1300 cycles per second having a ratio of the period of the emission to the period of silence equal to or greater than one, and an emission duration between one and five seconds;

or

ii) the radiotelephone alarm signal (see No. 1465) followed by the morse letter 'B' and/or the call-sign of the ship to which the beacon belongs transmitted by keying a carrier modulated by a tone of 1300 cycles per second or of 2200 cycles per second.

or

ъ) for VHF

a swept tone modulation sweeping downward over a range of not less than 700 c/s, within the range 1600 to 300 e/s, with a repetition rate between two and three sweeps per second.

 $\left[\frac{ex-G}{60} \right]$ ADD 1476A ADD 1476B

ADD

ADD

ADD

ADD

 $\int ex_{DT}/2 p.4057$

1476D

14760

Annex to Document No. DT/17-E Page 6

Article 36 Section VIIIA (cont.) /ex-DT/2 p.407/ ADD 1476E (2)The signal in No. 1476B shall be sent continuously or as in No. 1476C. 1476F ADD The keying cycle of the (3) signal in No.1476C (and of the signal in No. 1476B, when used on a high power beacon -Type H), shall consist alternately of the keying signal having a duration between thirty and fifty seconds followed by a period of silence having a duration between thirty and sixty seconds. /ex-DT/2 p.407/ ADD (4) However, the keying cycles in 1476G Nos, 1476E and 1476F may be interrupted for speech transmission if administrations so desire. ADD (5) The purpose of the emergency 1476H position-indicating radiobeacon signals is to indicate the position of survivors and to facilitate search and rescue operations. /ex-DT/2 p.405/ ADD 1476I This signal shall indicate (6)that a person(s) is in a distress situation, may no longer be on board an aircraft or ship and that receiving facilities may not be available. F/14(88)<u>/ex-DT/2 p.406</u> 1476J (7) Any mobile service station receiving one of these signals, while no distress or urgent traffic is being passed, shall consider that the circumstances are as described in No. 1453. /ex-DT/2 p.407/ ADD Equipment designed to transmit 1476K (8) emergency position-indicating radiobeacon signals shall meet the requirements specified in Appendix 20A.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/18-E 25 September 1967 Original: English

WORKING GROUP 6B ad hoc

TERMS OF REFERENCE FOR WORKING GROUP 6B AD HOC

- To consider proposals for the addition of new codes to Sections I and II (which would be indicated by a footnote stating for use by the Maritime Mobile Service) and a possible amendment to the title of Appendix 13 providing for use in radiotelephony communications,
- to consider proposals for the insertion of any modified codes for the Maritime Mobile Service in a new Section III of Appendix 13,
- to consider what this Conference should do with signals which Administrations have proposed for deletion,
- to consider proposals for a draft resolution relating to the alignment of the revised International Code of Signals to the pertinent Radio Regulations revised by the Maritime Conference, Geneva 1967,
- to consider proposals for a draft resolution relating to the areas of responsibility for signalling codes of the I.T.U. and of I.M.C.O.

H.A. FEIGLESON Chairman Working Group 6B



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

CONFERENCE MARITIME

GENÈVE, 1967

Addendum Nº 1 au Document Nº DT/19-F/E/S Original : français, anglais, espagnol

COMMISSION	5
COMMITTEE	5
COMISION	5

Numéro du Règlement des Radiocommunications	
Number of the Radio Regulation	Proposition/Proposal/Proposición
Número del Reglamento de Radiocomunicaciones	N ^o
Page/Página 2	
<u>Art. 7</u>	
442	lire/read/léase URSS/48(1) au lieu de/instead en lugar de URSS/49(2)
Page/Página 4	
<u>Art. 35</u>	
Ajouter/Add/Añadase:	
1336 A	HOL/183(37)
Page/Página 6	
<u>Art. 7</u>	
447	Ajouter/Add/Añádase: NZL/133 (Annexe/Annex/ Anexo)
448	Ajouter/Add/Añádase: NZL/133 (Annexe/Annex/ Anexo)
<u>Art. 35</u>	
1352	Ajouter/Add/Añadase: DNK/NOR/115(1)
Page/Página 7	
Art. 35	· · · · · · · · · · · · · · · · · · ·
Ajouter/Add/Añadase: 1358 A	
	F/15(91)



Addendum N° 1 au Document N° DI/19-F/E/S Page/Página 2

· · · · · · · · · · · · · · · · · · ·	
Numéro du Règlement des Radiocommunications	
Number of the Radio Regulations	Proposition/Proposal/Proposición
Número del Reglamento de Radiocomunicaciones	No
<u>Art. 35</u> (suite)	
AP.15-B	Ajouter/Add/Añádase : B/138(1) GRC/160(2) G/178 (101)
AP.17	Ajouter/Add/Añádase : GRC/160(2)
Page/Página 9	
AP. 25	Ajouter/Add/Añádase : GRC/160(3)
Page/Página 11 Art. 1	
37 A	Ajouter/Add/Añádase : USA/177
<u>Art. 35</u>	
Biffer/Delete/Suprimase :	
1358 A	F/15(91)
1363 A	Ajouter/Add/Añádase : USA/177
1363 в	Ajouter/Add/Añádase : USA/177
AP. 18	Ajouter/Add/Añádase : USA/177

II. Page/Página 8

Sous le titre l ajouter/Under.title l add/Sobre el título l añádase : USA/125/16(11)(Rev.)

Page/Página 12

Sous le titre 1 ajouter/Under title 1 add/Sobre el título 1 añádase : D/184(30)

Addendum Nº 1 au Document Nº DI/19-F/E/S Page/Página 3

Ajouter la page 5 bis ci-annexée entre les pages 5 et 6. Add attached page 5 bis between pages 5 and 6. Añádase la página adjunta 5 bis entre las páginas 5 y 6.

Document No. DT/19-F/E/S Page 5 bis

6. <u>Proposition relative à l'attribution en exclusivité au service mobile</u> <u>maritime d'une fréquence de la bande 3155-3200 kHz pour les communications</u> <u>radiotéléphoniques entre les navires effectuant des opérations de recherches</u> <u>et de sauvetage.</u>

Proposal relating to the allocation exclusively to the Maritime Mobile Service of a frequency in the band 3155-3200 kc/s for the radiotelephone traffic between ships engaged in search and rescue operations.

Proposición relativa a la atribución exclusivamente al servicio móvil marítimo de una frecuencia de la banda 3155-3200 kc/s para el tráfico radiotelefónico entre barcos dedicados a operaciones de búsqueda y salvamento.

URSS/49(3)

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

CONFERENCE MARITIME

GENÈVE, 1967

Document N° DT/19-F-E-S 25 septembre 1967 Original: français/anglais/ espagnol

GENEV

COMMISSION 5 COMMITTEE 5 COMISIÓN 5

ORGANISATION DES TRAVAUX

Le présent document contient une liste par ordre numérique des dispositions du Règlement des radiocommunications ainsi que des Appendices audit Règlement dont l'examen est confié respectivement à chacun des Groupes de travail créé par la Commission 5 au cours de sa première séance. Il contient, en outre, une liste de questions à examiner par ces groupes de travail et au sujet desquellez il conviendra de décider sous quelle forme et dans quelle partie des Actes Finals de la Conférence les décisions prises à cet égard seront publiées.

En regard de chaque numéro de disposition et sous chaque titre de question figurent les références des propositions présentées par les Administrations.

. * * *

ORGANIZATION OF WORK

The present document contains a list by numerical order of the provisions of the Radio Regulations and of the Appendices to those regulations to be examined respectively by each of the Working Groups set up by Committee 5 during its first meeting. It also contains a list of questions to be dealt with by these Working Groups and about which it should be decided in what form and in which part of the Final Acts of the Conference the decisions taken in this respect will be published.

Opposite each provision number and under the title of each question appear the references of the proposals presented by the Administrations.

ORGANIZACION DEL TRABAJO

El presente documento contiene, por orden numérico, una lista de las disposiciones del Reglamento de Radiocomunicaciones así como de los apéndices a dicho Reglamento cuyo examen se confía respectivamente a cada uno de los Grupos de trabajo creados por la Comisión 5 en su primera reunión. Además, contiene una lista de las cuestiones a examinar por estos Grupos de trabajo respecto a las cuales convendrá que se decida en qué forma serán publicadas y en qué parte de las Actas finales de la Conferencia serán incluidas.

Junto a cada número de disposición y debajo del título de cada cuestión se incluyen las referencias de las proposiciones presentadas por las administraciones.

GROUPE DE TRAVAIL 5A - WORKING GROUP 5A

GRUPO DE TRABAJO 5A

Numéro du Règlement des Radiocommunications	
Number of the Radio Regulations	Proposition/Proposal/Proposición
Número del Reglamento de Radiocomunicaciones	N°
Art.5	
200	B/143(124) CAN/145(40) USA/16(13)
Table (2000-2194 kHz)	J/84(1)
Art.7	
442	F/8(1) $G/79(97)$ URSS/49(2)
443-444	I/31(9) F/8(2) F/8(3) G/76(26)
445	F/8(4) J/84(2) USA/125(82)
<u>Art.23</u>	
863	G/76(27) F/8(13) J/84(6) USA/29(66) HOL/167(35)
866	G/86(84) for C6
90 3	F/8(14) G/76(28) J/84(7) USA/29(66)
Art.28	
983	B/76(29) USA/16(12)
(984)	URSS/51(7) (Item 5)
984	B/140(68) CAN/43(17) F/8(15) HOL/70(2) I/35(24) J/84(8) USA/20(34) USA/16(12)
985	B/140(69) F/8(16) HOL/70(2) I/31(10) J/84(9) USA/16(12)
986	B/140(70) F/8(17) HOL/70(2) I/31(10) J/84(10) USA/16(12)
986 A	B/140(71) USA/16(12)

Groupe de travail 5A (suite) Working Group 5A (cont.) Grupo de trabajo 5A (cont.)

Numéro du Règlement des Radiocommunications l'umber of the Radio Regulations Número del Reglamento de Radiocomunicaciones	Proposition/Propo N°	sal/Proposición
Art.28 (suite)		a 19 ar 49 9 9 9 9 9 9 9.
987	F/8(18)	
987 A	G/76(29)	
987 B	G/76(29)	
987 C	G/76(29)	
987 D	G/76(29)	ann an <u>de an an an a</u> -chuileann a' Allannag - A-Maillen <mark>- Canadan - An a-</mark> a-Maillen - An a-
987 E	G/76(29)	***************************************
992	B/140(72) CAN/43(18) F/ G/66(80) I/35(24) J/84(8(19) G/ 58(5) 11) USA/20(35)
996		8(20) G/76(2 9) /20(37) J/84(12)
<u>Art.33</u> 1227-1235	F/111(149 -15 0))
12 27 AA	I/31 (1)	,))
1233 AA	I/31(1))
1242	F/111(150)	
12 42 A	G/113(59))) p./6
1247	F/111(150))
1248 A	G/79(98)	
1251	F/8(27) AUS/122(44)	
1254	F/111(150))
1290	F/111(154))
<u>Art.35</u> 1320	(à examiner aussi G/78(95) (to be considered (a ser examinada t	

Groupe de travail 5A (suite) Working Group 5A (cont.) Grupo de trabajo 5A (cont.)

Numéro du Règlement des Radiocommunications Number of the Radio Regulations Número del Reglamento de Radiocomunicaciones	Proposition/Proposal/Proposición N°
Art.35 (suite)	
1321 A	F/8(30)
1322 A	G/76(30) F/8(31) J/84(17)
1323	F/8(32) RFA/94(22)
1323 A	J/84(18)
1325	G/79(99) F/8(33) RFA/4(2) J/84(19) HOL/70(4) I/31(2) USA/16(1-2)
1326 A	F/111(158)
1326 B	F/111(159)
1329 A	F/109(104)
1330 AA	I/31(2)
1334	POL/83(3) RFA/94(23)
1335	POL/83(3)
1336	F/8(34) J/84(20)
1337	F/8(35) J/84(21) CAN/43(22) G/76(30) HOL/73(16) I/35(26) USA/20(39) B/140(78) USA/16(3)
1339 A	USA/16(4) G/79(99) J/84(22)
1339 AA	I/31(2)
1339 B	J/84(22)
1339 C	J/84(22)
1341	F/8(36) G/76(30) HOL/70(4) I/31(5) POL/81(1)
1342	F/8(37) G/76(30) HOL/70(4) I/31(5) POL/81(1)
1344	F/8(38)
1344 A	G/76(30)
1344 B	G/79(99)
1345	F/8(39)
1345 A	G/76(30)
1350	F/8(40) G/79(99) HOL/70(4) I/31(5) J/84(23) USA/16(7)
1351	F/8(41) J/84(24) USA/16(8) et/and/y (8 Rev.)

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GROUPE DE TRAVAIL 5A (suite) WORKING GROUP 5A (cont.) GRUPO DE TRABAJO 5A (cont.)

1. Propositions concernant la division des voies DBL en voies BLU dans la bande 1605 - 4000 kHz Proposals concerning the division of DSB channels in SSB channels in the band 1605 - 4000 kc/s Proposiciones relativas a la división de canales de DBL en canales BLU en la banda 1605 - 4000 kc/s

> F/8 (52 Corr.) G/Add.76(62)

2. Propositions concernant la mise en application de la technique de la bande latérale unique sur la fréquence 2182 kHz

Proposal concerning the implementation of single-sideband mode of operation on frequency 2182 kc/s

<u>Proposiciones relativas a la implantación de la técnica de la banda lateral</u> <u>única en la frecuencia 2182 kc/s</u>

G/76(35)

3. Propositions relatives à la veille sur la fréquence 2182 kHz Proposal concerning the watch on frequency 2182 kc/s Proposiciones relativas a la escucha en la frecuencia 2182 kc/s

POL/83(4)

4. <u>Propositions relatives aux spécifications techniques pour les émetteurs BLU</u> <u>Proposals concerning the technical specifications for SSB transmitters</u> <u>Proposiciones relativas a las especificaciones técnicas de los transmisores</u> <u>de BLU</u>

> (A examiner également par le Groupe de travail 5B) (To be considered also by Working Group 5B) (A ser examinadas también por el Grupo de trabajo 5B)

CAN/39(1)		J/86(40)
I/31(4)	ана страна 1	B/136(3)
USA/16(6)		F/8(51)
I/31(8)		G/76(32)
USA/16(11)		HOL/70(6)

5. <u>Propositions concernant le calendrier à adopter pour la mise en application</u> <u>de la technique de la bande latérale unique</u> <u>Proposals concerning the dates to be adopted for the implementation of the</u> <u>single-sideband mode of operation</u> <u>Proposiciones relativas a las fechas que han de adoptarse para la implantación</u> <u>de la técnica de banda lateral única</u>

(A examiner également par le Groupe de travail 5B)(To be considered also by Working Group 5B)(A ser examinadas también por el Grupo de trabajo 5B)(Aser examinadas también por el Grupo de trabajo 5B)(A ser examinadas también por el Grupo de trabajo 5B)</

Document	No	DT/19-F/E/S
Page 6		

GROUPE DE TRAVAIL 5B WORKING GROUP 5B GRUPO DE TRABAJO 5B

Numéro du Règlement des Radiocommunications Number of the Radio Regulations Número del Reglamento de Radiocomunicaciones	Proposition/Proposal/Proposición Nº
<u>Art. 7</u> 447	AUS/122(12) F/8(5) G/77(39) HOL/72(9) 1/33(18) IND/97(2)
448	AUS/122(13) F/8(6) G/77(39) HOL/72(9) I/33(18) IND/97(2)
448 A	AUS/122(14)
449	AUS/122(15) F/8(7) G/77(39) HOL/72(9) I/33(18) CAN/40(13) J/84(3) USA/17(20) B/138(28)
450	AUS/122(16) $F/8(8)$ G/77(39) HOL/72(9) I/33(18) J/84(4) USA/17(21) B/138(29)
451	AUS/122(17)
456	B/138(30)
<u>Art. 33</u> 1295	(pour (F/8(29) (for (C 6) (para (
<u>Art. 35</u> 1320	g/78(95)5A/b
1351 A	B/136(2) F/8(42) G/76(31)
1352	AUS/122(45) B/138(54) F/8(43) G/77(42) HOL/72(11) I/33(21), J/84(25) NZL/133(15)
1352 A	B/143(125)
1353	AUS/122(46) F/8(44) URSS/49(3)
1353 A	G/78(95)
1354	AUS/122(47) F/8(45) G/77(42) J/84(26) NZL/133(15)
1355	J/84(27)
1355 A	F/8(46)
1356	AUS/122(48) $B/137(6)$ $B/138(57)$ $F/8(47)$ G/77(42) HOL/72(11) $I/31(6)$ $J/84(28)$ NZL/133(15) USA/16(9)

GROUPE DE TRAVAIL 5B (suite) WORKING GROUP 5B (cont.) GRUPO DE TRABAJO 5B (cont.)

Numéro du Règlement des Radiocommunications Number of the Radio Regulations Número del Reglamento de Radiocomunicaciones	. Proposition/Proposal/Proposición N°
Art. 35 1357 1358	AUS/122(48) $B/137(7)$ $F/8(48)$ $G/77(42)$ HOL/72(11) $I/31(6)$ $J/84(29)$ USA/16(9) B/137(8) $F/8(49)$ $G/76(31)$ $I/31(6)$ $J/84(30)$
<u>AP 15-B</u>	USA/16(9) CAN/41(15)a/4 F/10(60) G/77(37) G/77(36)a/4 HOL/72(12) J/86(37) J/86(39) NZL/133(8) NZL/133(9) NZL/133(10)a/4 URSS/50(6)a/4 USA/18
	USA/17(15) USA/18(26) $G/56(1)$ IND/97(2) $F/9(55)$ CAN/40(28) NZL/132(24) CAN/40(29) $G/56(62)$ DNK/NOR/115(1)
<u>AP 17</u>	AUS/122(11) B/138(23) B/138(26) B/138(24-25) CAN/39(2) DNK/ISL/NOR/S/37(1) F/10(61) G/77(38) HOL/71(30) HOL/72(13) I/33() I/33(16) J/86(41) J/86(42) J/86(43) J/86(43bis) NZL/133(8) USA/18(28

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1. Propositions relatives aux spécifications techniques pour les émetteurs BLU Proposals concerning the technical specifications for SSB transmitters Proposiciones relativas a las especificaciones técnicas de los

transmisores BLU

(Doit aussi être examiné par le Groupe de travail 5A) (To be considered also by Working Group 5A) (Debe ser examinado también por el Grupo de trabajo 5A)

CAN/39(1)	J/86(40)
I/31(4)	B/136(3)
USA/16(6)	F/8(51)
I/31(8)	G/76(32)
USA/16(11)	HOL/70(6)

2. <u>Propositions relatives au calendrier à adopter pour la mise en application</u> <u>de la technique de la bande latérale unique</u> <u>Proposals concerning</u> the dates to be adopted for the implementation of

the single-sideband mode of operation Proposiciones relativas a las fechas que han de adoptarse para la implantación de la técnica de banda lateral única

(Doit aussi être examiné par le Groupe de travail 5A) (To be considered also by Working Group 5A) (Debe ser examinado también por el Grupo de trabajo 5A)

USSR/48(1)	U SA/16(10)	J/84(32)
CAN/39(1)	B/136(5)	
1/31(3)	F/8(54)	
USA/16(5)	G∕7€ (34)	
I/31(7)	HOL/70(1)	

GROUPE DE TRAVAIL 5D WORKING GROUP 5D GRUPO DE TRABAJO 5D

Numéro du Règlement des Radiocommunications Number of the Radio Regulations Número del Reglamento de Radiocomunicaciones	Proposition/Proposal/Proposición N°
<u>Art.7</u> 457	F/8(12) G/77(39) J/84(5) J/86(45) NZL/134(17) B/138(31)
<u>Art.9</u> 488	J/86(46) USA/18(27) USA/18
500	J/86(47) USA/18(29) HOL/80(29) I/33(19) B/138(32) NZL/134(18)
540	HOL/80(29) I/33(19) J/86(48) USA/18(30) B/138(33) NZL/134(19)
541~551	HOL/80(29) I/33(19) J/86(49) USA/18(31) NZL/134(20) B/138(34)
541	F/10(63)
544	F/10(64)
547	F/10(65)
573	HOL/80(29) I/33(19) J/86(50) USA/18(31a) AUS/122(23) NZL/134(21) B/138(35)
577–586	HOL/80(29) I/33(19) J/86(15) USA/18(32) B/138(36) NZL/134(22)
581	F/10(66)
586	F/10(67)
635	HOL/80(29) I/33(19) J/86(52) USA/18(32a) NZL/134(23) B/138(37)
<u>Ap. 25</u>	CAN/41(31) B/138(27) F/10(186) HOL/80(34) I/33(17) J/86(44) NZL/134(16) MDG/47(1) URSS/50(1) USA/18(28)

GROUPE DE TRAVAIL 5D (suite) WORKING GROUP 5D (cont.) GRUPO DE TRABAJO 5D (cont.)

> <u>Propositions relatives au traitement des assignations de</u> <u>fréquences au cours de le période de transition</u> <u>Proposals concerning the treatment of the frequency</u> <u>assignments during the transition period</u> <u>Proposiciones relativas al tratamiento de las asignaciones</u> <u>de frecuencia durante el periodo de transición</u>

A. <u>Téléphonie/Telephony/Telefonía</u>

F/8 (52 Corr.)
F/8 (54)
J/86 (54)
F/10 (62) (to be dealt with also by 5B)
HOL/80 (28)
I/33 (17)
USA/124 (75-81)

B. <u>Télégraphie/Telegraphy/Telegrafía</u> (Aprés decision par la Commission 4) (After decision in Committee 4) (Después de una decisión en la Comisión 4)

> F/8 (53 Corr.) G/77 (43) I/33 (22) NZL/133 (11) URSS/49 (5)

GROUPE DE TRAVAIL 5C WORKING GROUP 5C GRUPO DE TRABAJO 5C

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Numéro du Reglement des Radiocommunications Number of the Radio Regulations Número del Reglamento de Radiocomunicaciones	Proposition/Proposal/Proposición Nº
<u>Act.1</u> 37 A	B/1 <i>3</i> 9(58
37	AUS/54(1)
3 7 A	AUS/54 (2)
37 A .	USA/55(45)
<u>Act.5</u> 287	AUT/120(1) B/142(122) F/14(89) HOL/75(26) USA/55(50)
<u>Act.7</u> 457 A	NZL/131(25)
<u>Act.28</u> 998 A	NZL/131(26)
Act.35 1358 A 1359 1359 A 1363 1363 A 1363 B 1363 C 1367 A	F/15(91) NZL/131(28) F/109(105) USA/55(51) B/139(59) USA/55(46) B/139(60) USA/55(46) USA/55(46) G/78(95)
<u>AP 18</u>	AUT/120(2) $B/142(123)$ $B/139(62)$ CAN/42(32) F/14(90) $G/112(55)$ HOL/75(27) USA/55(47) $G57(4)$
<u>AP 19</u>	G/Add.112(100) F/11(69) RFA/95(29) USA/55(48) B/139(63)

GROUPE DE TRAVAIL 5C (suite) WORKING GROUP 5C (cont.) GRUPO DE TRABAJO 5C (cont.)

Propositions relatives à l'espacement entre canaux dans la bande 156-175 MHz 1. Proposals concerning the channel spacing in the band 156-175 Mc/s Proposiciones relativas a la separación de los canales en la banda 156-175 Mc/s

(Voir aussi AP 18) (See also AP 18) (Véase también AP 18)

F/11 (70) G/112 (54) G/112 (56) I/34 (23) ISL/NOR/S/105 (1) J/87 (55) USA/55 (49)

2. Propositions concernant l'utilisation de la bande 450-470 MHz pour les communications radictelephoniques

Proposal concerning the use of the band 450-470 Mc/s for radiotelephone communications

Proposiciones relativas a la utilización de la banda 450-470 Mc/s para las comunicaciones radiotelefónicas

G/114 (60)

3. Propositions relatives à l'etablissement d'une catégorie spéciale pour le trafic radiotéléphonique sur les voies d'eau intérieures (Point 7.6) Proposals concerning the establishment of a separate category for mobile

radiotelephone traffic in inland waterways (Item 7.6) Proposiciones relativas al establecimiento de una categoría especial para el tráfico móvil radiotelefónico en las vías interiores de navegación (Punto 7.6)

AUT/120(3)	F/14(89)
CAN/45(38)	HOL/75(26, 27)
G/60(65)	B/142 (123)
USA/22(56)	

4. Proposition relative à l'utilisation des techniques de télécommunications spaciales dans le service mobile maritime

Proposal concerning the utilization of space communication techniques in the Maritime Mobile Service

Proposición relativa a la utilización de las técnicas de las telecomunicaciones espaciales en el servicio móvil marítimo

USA/126 (83)

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/20-E 26 September 1967 Original : English

WORKING GROUP 6C AD HOC

TERMS OF REFERENCE FOR WORKING GROUP 6C AD HOC

To investigate and prepare a draft Recommendation relating to the desirability of revising the certificate structure for radio operator certificates, including the concept of a general class of certificate.

> F. WIEFELSPÜTZ Chairman, Working Group 6C



INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/21-E 28 September 1967 Original : English

WORKING GROUP 6B

REPORT BY WORKING GROUP 6B AD HOC

TO WORKING GROUP 6B

Terms of Reference : Document No. DT/18

Participants

Delegations of the U.S.A., France, Norway, the Federal Republic of Germany, the United Kingdom, the U.S.S.R. and Yugoslavia. The Observers of I.M.C.O. and the International Chamber of Shipping.

Appendix 13

1.

- All proposals concerning the revision of Appendix 13 to the Radio Regulations were considered and the Working Group <u>unanimously</u> <u>recommends</u> to Working Group 6B the adoption of a draft new Appendix 13A which appears in Annex A attached hereto, subject to the indications listed in Annex B attached hereto.
- 2. Consequential amendments in Articles 29 and 33

The Group invites attention to the need for considering amendments in Articles 29 and 33 as follows :

Article 29

General Radiotelegraph procedure ...

MOD _1004

§ 3. (1) In order to facilitate radiocommunications, stations of the mobile service, other than the Maritime Mobile Service, shall use the service abbreviations given in Appendix 13.

MOD 1005

(2) In the Maritime Mobile Service, only the service abbreviations given in Appendix 13A are to be used.

Document No. DT/21-E

Page 2

Article 33

General Radiotelephone procedure in the Maritime Mobile Service

MOD 1216A.

To facilitate radiocommunications in the Maritime Mobile Service the service abbreviations given in Appendix 13A may be used.

3. The Group was not convinced of the necessity to include new codes relating to charges which form part of Proposal No. DNK/38(15) DT/2, pages 491 and following. It felt that the code QSJ covered the requirement; however, it invited the Delegation of Denmark to raise the question, if it so desires, at a later stage.

4. The Group did not have time to complete its consideration of the proposed deletion of codes and abbreviations. A summary of the related proposals is given in Annex C to the present report for final disposal in Working Group 6B.

5. In view of the difficulties surrounding the convening of a further meeting of the Group and in agreement with the Chairman of Working Group 6B, the Group referred back the proposals concerning draft resolutions relating to questions of mutual interest to I.T.U. and I.M.C.O. in connection with signal codes (see Document No. DT/26).

> F.J. CLARKE Chairman Working Group 6B ad hoc

Annexes : 3

ANNEXA

KEY TO SYMBOLS USED IN THE MARGIN

(ex.App.13)		means	code carried over from Appendix 13 without amendment since no proposal was received.
(ex-App.13)	NOC	means	the Group recommends the inclusion of this code taken from Appendix 13 without amendment.
(ex-App.13 MOD)	•	means	oode taken from Appendix 13 with an editorial amendment.
(ex-App,13 MOD)		means	code taken from Appendix 13 with an amendment of substance (applies to Introduction).
(ex-App.13 SUP)		means	code carried over from Appendix 13 but for which there is at least one proposal either for dele- tion or for no longer required by the Maritime Mobile Service (Working Group 6B will dispose of these proposals, see paragraph 3 of the report of Working Group 6B ad hoc).
(ex-App,13)	SUP	means	the Group recommends that this code should not be included in the new Appendix 13A.
(ex-p.487)		means	code taken from page 487 of Document No. $DT/2$ with or without amendment.

APPENDIX 17 A

ADD

1.

to QVZ.

MISCELLANEOUS ABBREVIATIONS AND SIGNALS TO BE USED FOR RADIOCOMMUNICATIONS IN THE MARITIME MOBILE SERVICE

(See Articles 29 and 33)

Q CODE SECTION I.

Introduction

The series of groups listed in this Appendix range from QOA

(ex-App.13)MOD)

(exmApp,13

MOD)

(ex-p.511)

(ex-App.13 MOD)

(ex-App.13 Of these, the QOA to QQZ series are reserved for the Maritime 2. MOD) Mobile Service.

> Certain Q code abbreviations may be given an affirmative or -3. negative sense by sending, immediately following the abbreviation,

- a) YES or NO in the case of radiotelegraphy communications,
- b) the letter C (spoken as CHARLIE) or NO (spoken as NO) in the case of radiotelephony communications.
- (ex-App.13)

The meanings assigned to Q code abbreviations may be amplified 4. or completed by the addition of appropriate other groups, call signs, place names, figures, numbers, etc. It is optional to fill in the blanks shown in parentheses. Any data which is filled in where blanks appear shall be sent in the same order as shown in the text of the following tables.

Q code abbreviations are given the form of a question when 5. followed by a question mark in radiotelegraphy and RQ (ROMEO QUEBEC) in radiotelephony. When an abbreviation is used as a question and is followed by additional or complementary information, the question mark (or RQ) should follow this information.

(ex-App.13)6. Q code abbreviations with numbered alternative significations shall be followed by the appropriate figure to indicate the exact meaning intended. This figure shall be sent immediately following the abbreviation.

(ex-App, 13)

All times shall be given in Greenwich Mean Time (G.M.T.) unless 7. otherwise indicated in the question or reply.

 $(ex-p_{488})$

ABBREVIATIONS AVAILABLE FOR THE MARITIME MOBILE SERVICE

A. List of Abbreviations in Alphabetical Order

		<u>Abbre-</u> viation	Question	Answer or Advice
(ex - p•489)	AD D	Q	Can you communicate by radiotelegraphy (500 kc/s)?	I can communicate by radio- telegraphy (500/kc/s).
(ex- p.490)	ADD	Q	Can you communicate by radiotelephony (2182 kc/s)?	I can communicate by radio- telephony (2182 kc/s).
(ex-p.490)	ADD	Q • •	Can you communicate by radictelephony (channel 16-156.80 Mc/s)?	I can communicate by radio- telephony (channel 16-156.80 Mc/s).
(ex-p.490)	ADD	Q	Can you communicate with me in O. Dutch 5. Italian 1. English 6. Japanese 2. French 7. Norwegian 3. German 8. Russian 4. Greek 9. Spanish?	 I can communicate with you in O. Dutch 5. Italian I. English 6. Japanese 2. French 7. Norwegian 3. German 8. Russian 4. Greek 9. Spanish
(ex-p.490)	ADD	Q		The groups which follow are from the International Code of Signals.
(ex-p.491)	ADD	Q	Have you received the safety signal sent by (name and/or call sign)?	I have received the safety signal sent by (name and/or call sign).
(ex-p.498)	ADD	Q	What is your MAGNETIC course?	My MAGNETIC course is degrees.
(ex-p.499)	ADD	Q	What is the commercial value of my signals?	Your signals are : 1. Uncommercial 2. Commercial with difficulty 3. Commercial.
(ex-p.499)	ADD	Q	How many tapes have you to send?	I have tapes to send.

		<u>Abbre-</u> viation	Question	Answer or Advice
(ex-p.499)	ADD	Q	Shall I send a phasing signal for seconds?	Send a phasing signal for seconds.
(ex-p.499)	ÅDD	Q	Shall I send my tape?	Send your tape.
(ex-p.528)	ADD	Q	Listen on 2182 kc/s or 121.5 Mc/s or 243 Mc/s for signals of emer- gency position-indi- cating radiobeacons.	I am listening on 2182 kc/s or 121.5 or 243 Mc/s for signals of emergency position-indicating radiobeacons.
(ex-p.528)	ADD	Q	Have you received the signal of an emergency position-indicating radiobeacon on 2182 kc/s or 121, 5 Mc/s or 243 Mc/s?	I have received the signal of an emergency position- indicating radiobeacon on 2182 kc/s or 121.5 Mc/s or 243 Mc/s.

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	Abbre- viation	Question	Answer or Advice
(ex-p.512)	QRA	What is the name of your vessel (or station)?	The name of my vessel (or station) is
(ex-App.13)	QRB	How far approximately are you from my station?	The approximate distance between our station is nautical miles (or kilometres
(ex-App.13)	QRC	By what private enterprise (<u>or</u> State Administration) are the accounts for charges for your station settled?	The accounts for charges of my station are settled by the private enterprise (or State Administration)
(ex-App.13 SUP)	QRD	Where are you bound for and where are you from?	Iam bound for from
(ex-App.13 SUP)	QRE	What is your estimated time of arrival at (or over) (<u>place</u>)?	My estimated time of arrival at (or over) (place) is hours
(ex-App.13 SUP)	QRF	Are you returning to (<u>place</u>)?	I am returning to (<u>place</u>) Return to (place) or
(ex-App.13)	QRG	Will you tell me my exact frequency (<u>or</u> that of)?	Your exact frequency (or that of) is kc/s (or Mc/s)
(ex-App.13)	QRH	Does my frequency vary?	Your frequency varies
(ex-App.13)	QRI	How is the tone of my trans- mission?	The tone of your transmission is 1. good
	·		2. variable 3. bad
(ex-App.13)	QRJ	How many radiotelephone calls have you to book?	I have radictelephone calls to book
(ex-p.512)	QRK	What is the intelligibility of my transmission (<u>or</u> that of (name and/or call sign))?	The intelligibility of your transmission (or that of (name and/or call sign)) is 1. bad 2. poor 3. fair

fair 5.

4. 5.

good excellent

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	Abbre- viation	Question	Answer or Advice
(ex-p.512)	QRL	Are you busy?	I am busy (or I am busy with (name and/or call sign)) Please do not interfere.
(ex-p.496)	QRM	Is my transmission being interfered with?	Your transmission is being interfered with : (1. nil 2. slightly 3. moderately 4. severely 5. extremely).
(ex-App.13)	QRN	Are you troubled by static?	I am troubled by static. (1. nil 2. slightly 3. moderately 4. severely 5. extremely).
(ex-App.13)	QRO	Shall I increase transmitter power?	Increase transmitter power.
(ex-App.13)	QRP	Shall I decrease transmitter power?	Decrease transmitter power.
(ex-App.13 MOD)	QRQ	Shall I transmit faster?	Transmit faster (words per minute)
(ex-App.13)	QRR	Are you ready for automatic operation?	I am ready for automatic operation. (Send at words per minute.)
(ex-App.13 MOD)	QRS	Shall I transmit more slowly?	Transmit more slowly (words per minute).
(ex-App.13 MOD)	QRT	Shall I stop transmission?	Stop transmission.
(ex-App.13)	QRU	Have you anything for me?	I have nothing for you.
(ex-App.13)	QRV	Are you ready?	I am ready.
(ex-App.13)	QRW	Shall I inform that you are calling him on kc/s (<u>or</u> Mc/s)?	Please inform that I am calling him on kc/s (or Mc/s).
(ex-App.13)	QRX	When will you call me again?	I will call you again at hours (on kc/s (or Mc/s)).

	<u>Abbre-</u> viation	Question	Answer or Advice
(ex-App.13)	QRY	What is my turn? (<u>Relates to communication</u>)	Your turn is Number (or according to any other in- dication). (Relates to communication)
(ex-App,13)	QRZ	Who is calling me?	You are being called by (on kc/s (or Mc/s)).
(ex-p,514)	QSA	What is the strength of my signals (or those of (name and/or call sign))?	The strength of your signals (or those of (name and/ or call sign) is 1. scarcely perceptible 2. weak 3. fairly good 4. good 5. very good
(ex-App.13)	QSB	Are my signals fading?	Your signals are fading.
(ex-p.509)	ର୍ଟ୍ଟ	Are you a low traffic ship station? (see Article 32, Section ♥)	I am a low traffic ship station.
(ex-p.497)	QSD	Are my signals mutilated?	Your signals are mutilated.
(ex-App.13 SUP)	QSE .	What is the estimated drift of the survival craft?	The estimated drift of the survival craft is (figures and units)
(ex-App.13 SUP)	qsf	Have you effected rescue?	I have effected rescue and am proceeding to base (with persons injured requiring ambulance).
(ex-App.13)	QSG	Shall I send telegrams at a time?	Send telegrams at a time,
(ex-p.514)	QSH	Are you able to home with your direction-finding equipment?	I am able to home with my direction-finding equipment (on (name and/or call sign)).
(ex-App∔13 (SUP)	QSI		I have been able to break in on your transmission. Will you inform (<u>call sign</u>) that I have been unable to break in on his transmission

break in on his transmission (on ... kc/s (or Mc/s)).

	<u>Abbre-</u> viation	Question	Answer or Advice
(ex-App.13)	QSJ	What is the charge to be collected to including your internal charge?	The charge to be collected to including my internal charge is francs.
(e x-A pp.13)	QSK	Can you hear me between your signals and if so can I break in on your trans- mission?	I can hear you between my signals; break in on my transmission.
(ex-App.13)	QSL	Can you acknowledge receipt?	I am acknowledging receipt.
(ex-App.13 SUP)	QSM	Shall I repeat the last telegram which I sent you (<u>or</u> some previous telegram)?	Repeat the last telegram which you sent me (<u>or</u> telegram(s) number(s)).
(ex-App.13 SUP)	QSN	(Do not include text of QSN)	·
(ex-p.514)	ୟଞ୍ଚ	Can you communicate with (name and/or call sign) direct (or by relay)?	I can communicate with (name and/or call sign) direct (or by relay).
(e x- p.515)	QSP	Will you relay to (name and/or call sign) free of charge?	I will relay to (name and/or call sign) free of charge.
(ex-App.13 NOC)	ର ୍ବର	Have you a doctor on board (<u>or</u> is (<u>name of person</u>) on board)?	I have a doctor on board (<u>or</u> (<u>name of person</u>) is on board)
(ex-App.13)	QSR	Shall I repeat the call on the calling frequency?	Repeat your call on the calling frequency; did not hear you (<u>or</u> have interference).
(e x- p,515)	QSS	What working frequency will you use?	I will use the working fre- quency kc/s (or Mc/s) (in the high frequency bands;

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normally only the last three figures of the frequency need be given).

	<u>Abbre-</u> viation	Question	Answer or Advice
(e x- p.515)	QSU	Shall I transmit or reply on this frequency (or on kc/s (or Mc/s)); (with emissions of class)?	Transmit or reply on this frequency (or on kc/s (or Mc/s)); (with emissions of class).
(e x- p.515)	QSV	Shall I transmit a series of V's (or signs for adjust- ment on this frequency (or kc/s (or Mc/s))?	Transmit a series of V's (or signs for adjustment on this frequency (or kc/s (or Mc/s)).
(ex-App.13)	ୟୁସ୍କ	Will you send on this frequency (or on kc/s (or Mc/s)) (with emissions of class)?	I am going to send on this frequency (or on kc/s (or Mc/s)) (with emissions of class).
(ex-p.515)	QSX	Will you listen to (name and/or call sign) on kc/s (or Mc/s))?	I am listening to (name and/or call sign)(on kc/s (or Mc/s)).
(ex-App.13)	QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on kc/s (or Mc/s)).
(ex-p.515)	QSZ	Shall I transmit each word or group more than once?	Transmit each word or group twice (or times).
(ex-p.515)	QTA	Shall I cancel telegram (or message or signal number)?	Cancel telegram (or message or signal number).
(ex-p.516)	QTB	Do you agree with my counting of words?	I do not agree with your counting of words; I will repeat the first letter or digit of each word or group.
(e x- p.516)	QTC	How many telegrams have you to send?	I have telegrams for you (or for (name and/or call sign)).
(ex- App.13 SUP)	QTD	What has the rescue vessel or rescue aircraft recovered?	<pre> (identification) has recovered 1 (number) survivors 2. wreckage</pre>

2. wreckage 3. ... (number) bodies.

			Page 12
• .	<u>Abbre</u> - viatior	Question	Answer or Advice
(e x- p.516)	QTE	What is my TRUE bearing from you? or	Your TRUE bearing from me is degrees at hours. or
	•	What is my TRUE bearing from (name and/or call sign) from or What is the TRUE bearing	Your TRUE bearing from (name and/or call sign) was degrees at hours. or The TRUE bearing of (name
		of (name and/or call sign) from (name and/or call sign)?	and/or call sign) from (name and/or call sign) was degrees at hours.
(ex-p.516)	QTF	Will you give me my position according to the bearings taken by the direction- finding stations which you control?	Your position according to the bearings taken by the direction-finding stations which I control was latitude longitude (or other indication of position), class at hours.
(ex-p.516)	QTG	Will you transmit two dashes (or carrier frequency) of ten seconds each followed by your call sign (or name) (repeated times) (on kc/s (Mc/s)?	I am going to transmit two dashes (or carrier frequency) of ten seconds each followed by my call sign (or name) (repeated times) (on kc/s (or Mc/s)).
		or Will you request (name and/or call sign) to send two dashes of ten seconds each (or carrier) followed by his call (and/or name) (repeated times on kc/s (or Mc/s))?	I have requested (name and/or call sign) to send two dashes of ten seconds each (or carrier) followed by his call sign (and/or name) (repeated times) on kc/s (or Mc/s)
(ex-App:13 SUP)	QTH	What is your position in latitude and longitude (or according to any other indication)?	My position is latitude longitude (or according to any other indication).
(e x- p.497)	QTI	What is your TRUE course?	My TRUE course is degrees.

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Annex A	to Document No. DT	/21 - E
Page 13		

	<u>Abbre-</u> viation	Question	Answer or Advice
(ex-App.13 SUP)	QTJ	What is your speed?	My speed is knots (<u>or</u> kilometres per hour <u>or</u> statute miles per hour).
		(<u>Requests the speed of a ship</u> or aircraft through the water or air respectively)	(Indicates the speed of a ship or aircraft through the water or air respectively)
(ex-App.13 SUP)	QTK	What is the speed of your aircraft in relation to the surface of the earth?	The speed of my aircraft in relation to the surface of the earth is knots (or kilometres per hour or statute miles per hour)
(ex-App.13 SUP)	QTL	What is your TRUE heading?	My TRUE heading is degrees.
(ex-App.13 SUP)	QTM	What is your MAGNETIC heading?	My MAGNETIC heading is degrees.
ex-App.13 SUP)	QTN	At what time did you depart from (<u>place</u>)	I departed from (<u>place</u>) at hours.
(ex-App.13)	QTO	Have you left dock (or port)?	I have left dock (or port).
		<u>or</u> Are you airborne?	<u>or</u> I am airborne.
(ex-App.13)	QTP	Are you going to enter dock (<u>or</u> port)? or	I am going to enter dock (<u>or</u> port). <u>or</u>
		Are you going to alight (or land)?	I am going to alight (or land).
(ex-App,13 MOD)	QTQ	Can you communicate with my station by means of the International Code of Signals (INTERCO)?	I am going to communicate with your station by means of the International Code of Signals (INTERCO).
(ex-App.13)	QTR	What is the correct time?	The correct time is hours.
(ex-p.498)	QTS	Will you transmit your call sign (and/or name) for seconds?	I will transmit my call sign and/or name) for seconds

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	<u>Abbre-</u> viation	Question	Answer or Advice
(ex-App.13 SUP)	QTT		The identification signal which follows is superimposed on another transmission.
(ex-App.13)	QTU	What are the hours during which your station is open?	My station is open from to hours.
(ex-App.13 MOD)	QTV	Shall I stand guard for you on kc/s (<u>or</u> Mc/s) (from to hours)?	Stand guard for me on kc/s (<u>or</u> Mc/s) (from to hours).
(or Ann 13			
(ex-App.13 SUP)	QTW	What is the condition of survivors?	Survivors are in condition urgently need
(ex-App.13)	QTX	Will you keep your station open for further communi- cation with me until further notice (<u>or</u> until hours)?	I will keep my station open for further communication with you until further notice (or until hours).
(ex-App.13 SUP)	QTY	Are you proceeding to the position of incident and of so when do you expect to arrive?	I am proceeding to the position of incident and expect to arrive at hours (on <u>date</u>)
(ex-App.13 SUP)	QTZ	Are you continuing the search?	I am continuing the search for (aircraft, ship, survival craft, survivors or wreckage).
(ex-p.517)	QUA	Have you news of (name and/or call sign)?	Here is news of (name and/or call sign)
(ex-App.13 SUP)	QUB	Can you give me in the following order information concerning: the direction in degrees TRUE and speed of the surface wind; visibility; present weather; and amount, type and height of base of cloud above surface elevation at (place of observation)?	Here is the information requested: (<u>The units used for speed</u> and distances should be indicated).

	Abbre- viation	Question	Answer or Advice
(ex-r-489)	QUC	What is the number (<u>or other</u> <u>indication</u>) of the last message you received from me (<u>or</u> from (name and/or call sign))?	The number (<u>or</u> other indication) of the last message I received from you (<u>or</u> from (name and/or call sign)) is
(e x- p.518)	QUD	Have you received the urgency signal sent by (name and/or call sign)?	I have received the urgency signal sent by (name and/or call sign) at hours.
(ex-App.13)	QUE	Can you use telephony in (<u>language</u>), with interpreter if necessary; if so, on what frequencies?	I can use telephony in (<u>language</u>) on kc/s (<u>or</u> Mc/s).
(ex-p.518)	QUF	Have you received the distress signal sent by (name and/or call sign)?	I have received the distress signal sent by (name and/or call sign) at hours.
(ex-App.13 SUP)	QUG	Will you be forced to alight (or land)?	I am forced to alight (<u>or</u> land) immediately. <u>or</u>
			I shall be forced to alight (or land) at (position or place) at hours.
(ex-App.13 SUP)	QUH	Will you give me the present barometric pressure at sea level?	The present barometric pressure at sea level is (<u>units</u>)
(ex-App.13 SUP)	QUI	Are your navigation lights working?	My navigation lights are working.
(ex-App.13 SUP)	QUJ	Will you indicate the TRUE track to reach you (<u>or</u>)?	The TRUE track to reach me (<u>or</u>) is degress at hours.
(ex-App.13 SUP)	QUK	Can you tell me the condition of the sea observed at (place or co-ordinates)?	The sea at (place or <u>co-ordinates</u>) is
(ex-App.13 SUP)	QUL	Can y ou tell me the swell observed at (<u>place or</u> <u>co-ordinates</u>)?	The swell at (place or <u>co-ordinates</u>) is

	<u>Abbre-</u> viation	Question	Answer or Advice
(ex-App.13)	QUM	May I resume normal working?	Normal working may be resumed.
(ex-p,498)	QUN	1. When directed to all stations :	My position, TRUE course and speed are
		Will vessels in my immediate vicinity	
		or (in the vicinity of latitude longitude) or	
		(in the vicinity of)	
• •		Please indicate their position, TRUE course and speed?	
		2. When directed to a single station :	
•		Please indicate your position, TRUE course and speed.	
(arr Ann 37	OIIO		Discourse for
(ex-App.13 SUP)	ର୍ଥଠ	Shall I search for 1. aircraft	Please search for
		2. ship	1. aircraft 2. ship
		3. survival craft	3. survival craft
	•	in the vicinity of latitude longitude (or according to any other indication)?	in the vicinity of latitude longitude (or according to any other indication).
(ex-App.13 SUP)	QUP	Will you indicate your position by	My position is indicated by
		l. searchlight 2. black smoke trail 3. pyrotechnic lights?	 searchlight black smoke trail pyrotechnic lights.
(ex-App.13 SUP)	QUQ	Shall I train my searchlight nearly vertical on a eloud, occulting if possible and, if your aircraft is seen, deflect the beam up wind and on the water (or land) to facilitate your landing?	Please train your searchlight on a cloud, occulting if possible and, if my air- eraft is seen or heard, deflect the beam up wind and on the water (or land) to facilitate my landing.

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	<u>Abbre-</u> viation	Question	Answer or Advice
(ex-App.13 SUP)	QUR	 Have survivors 1. received survival equipment 2. been picked up by rescue vessel 3. been reached by ground rescue party? 	 Survivors 1. are in possession of survival equipment dropped by 2. have been picked up by rescue vessel 3. have been reached by ground rescue party.
(ex-App.13 SUP)	QUS	Have you sighted survivors or wreckage? If so, in what position?	Have sighted 1. survivors in water 2. survivors on rafts 3. wreckage in position latitude longitude (or accord- ing to any other indi- cation).
(ex-App.13 SUP)	QUT	Is position of incident marked?	Position of incident is marked by 1. flame or smoke float 2. sea marker
			 sea marker dye (specify other marking).
(ex-App.13 SUP)	QUU	Shall I home ship or aircraft to my position?	<pre>Home ship or aircraft (call sign) 1. to your position by transmitting your call sign and long dashes on kc/s (or Mc/s) 2. by transmitting on</pre>
	•		kc/s (<u>or Mc/s</u>) TRUE track to reach you.
(ex-App.13 SUP)	QUW	Are you in the search area desig- nated as (<u>designator or</u> <u>latitude and longitude</u>)?	I am in the(<u>designation</u>) search area.
(ex-App.13 SUP)	QUY	Is position of survival craft marked?	Position of survival craft was marked at hours by 1. flame or smoke float 2. sea marker 3. sea marker dye 4 (<u>specify other</u> <u>marking</u>).

B. List of Signals according to the Nature of Questions,

Answer or Advice

(This table can be prepared only after Section I A has been adopted)

SECTION II. MISCELLANEOUS ABBREVIATIONS AND SIGNALS

•	Abbreviation or Signal	<u>Definition</u>
(ex-p.494)	AA	All after (used after a question mark in radiotele- graphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
(ex-p.494)	AB	All before (used after a question mark in radio- telegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
(ex-p.494)	ADS	Address (used after a question mark in radiotelegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
	AR	End of transmission.
· ·	AS	Waiting period.
	BK	Signal used to interrupt a transmission in progress.
(ex-p.494)	BN	All between and (<u>used after a question mark</u> <u>in radiotelegraphy and after RQ in radiotelephony (in</u> <u>case of language difficulties) to request a repetition</u>).
	BQ	A reply to an RQ.
(ex-p.505)	C	Affirmative - yes or "The significance of the previous group should be read in the affirmative".
	CFM	Confirm (<u>or</u> I confirm).
	CL	I am closing my station.
4 L	COL	Collate (<u>or</u> I collate).
(ex-p.505)	CORRECTION (KOR-REK-SHUN)	Cancel my last word or group. The correct word or group follows.
	CP	General call to two or more specified stations (see <u>Article 31</u>).
· .	୯ହ	General call to all stations (<u>see Articles 31 and 33</u> (No. 1302)).
	2.1/1 1 7111 - 7	

Note: When used in radiotelegraphy a bar over the letters composing a signal denotes that the letters are to be sent as one symbol.

	Abbreviation or Signal	Definition
	CS	Call sign (used to request a call sign).
	DDD	Used to identify the transmission of the distress message by a station not itself in distress (see No. 1459).
(ex-p.506 MOD)	DE	"From" (used to precede the name or other identification of the calling station) - see No. 1216 A.
	DF	Your bearing at hours was degrees, in the doubtful sector of this station, with a possible error of degrees.
	DO	Bearing doubtful. Ask for another bearing later (or at hours).
	Е	East (Cardinal).
	ER	Here
	ETA	Estimated time of arrival.
(ex-p.506 (MOD)	INTERCO (IN-TER-CO)	International Code of Signals groups follow.

Comments by Working Group 6B ad hoc concerning Section II

1.

The following abbreviations are the subject of at least one proposal for cancellation as no longer required for the Maritime Mobile Service:

DDD DF DO E ER ETA KMH KTS MIN MPH N NW

S SOS SS TTT W XXX YES

and are for clearance in Working Group 6B.

The MOD to the following nine abbreviations was agreed subject to decisions on the regulatory aspect of use for radiotelephony:

AA AB ADS BN PBL SIG TXT WA WB

3. The ADD of \overline{BT} and \overline{KA} (p.495 DT/2) were deferred pending an explanation by the Delegation of Denmark in Working Group 6B.

4. The MOD to TR (DT/2 p.507) was agreed, subject to decisions of Working Group 6A.

5. The MOD to CQ (DT/2 p. 505) was deferred pending decisions of Working Group 6A on RR 1302.

2.

	Abbreviation or signal	Definition
	ITP	The punctuation counts.
	K	Invitation to transmit.
	KMH	Kilometres per hour.
	KTS	Nautical miles per hour (knots).
	MIN	Minute (or Minutes).
	MPH	Statute miles per hour.
	MSG	Prefix indicating a message to or from the master of a ship concerning its operation or navigation.
	Ν	North (Cardinal).
	NIL	I have nothing to send to you.
	NO	No (<u>Negative</u>).
	'NW	Now.
	OK	We agree (or It is correct).
	OL .	Ocean Letter.
	P	Prefix indicating a private radiotelegram.
194)	PBL	Preamble (used after a question mark in radiotelegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
	R	Received.
÷	REF	Reference to (or Refer to).
· .	RPT	Repeat (or I repeat) (or Repeat).
	RQ	Indication of a request.
	S	South (Cardinal).
.94)	SIG	Signature (<u>used after a question mark in radiotelegraphy</u> and after RQ in radiotelephony (in case of language <u>difficulties</u>) to request a repetition).
	SLT	Radiomaritime Letter.
	SOS	Distress Signal (to be sent as one signal).
	SS	Indicator preceding the name of a ship station.
	SVC	Prefix indicating a service telegram.
	SYS	Refer to your service telegram.

(ex-p.49

(.ex-p.49

	Abbreviation or signal	Definition
•	TFC	Traffic.
	TR	Used by a land station to request the position and next port of call of a mobile station (<u>see</u> No. 1083 and 1314); used also as a prefix to the reply.
	TTT	This group when sent three times constitutes the safety signal (see No. 1488).
	TU	Thank you.
(ex-p.494)	TXT	Text (used after a question mark in radiotelegraphy and after RQ in radiotelephony (in case of language diffi- culties) to request a repetition).
. •	VA	End of work.
	W	West (Cardinal).
(ex-p.494)	WA	Word after (used after a question mark in radiotele- graphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
(ex-p.494)	WB	Word before (used after a question mark in radio- telegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
	WD	Word(s) or Group(s).
(ex-p.507)	WX	Weather report follows.
	XQ	Prefix used to indicate an operating communication in the fixed service.
	XXX	This group when sent three times constitutes the urgency signal (see No. 1477).
	YES	Yes (Affirmative).
(ex-p.510)	YZ	The words which follow are in plain language.
	Nata a literar	

<u>Note</u>: When used in radiotelegraphy a bar over the letters composing a signal denotes that the letters are to be sent as one symbol.

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ANNEX B

1. ADD Q... Have you received the safety signal sent by (name and/or call sign)? DT/2 p. 491.

Deferred pending decision on a draft resolution on the division of responsibility ITU/IMCO.

2. ADD Q ... What is your ship charge ? etc. DT/2 pp. 491 - 494.

Deferred pending presentation by the Delegation of Denmark - see paragraph 2 of the Report by Working Group 6B ad hoc.

3. ADD Q... What is your MAGNETIC course ? DT/2 p. 498.

Deferred pending decision on a draft resolution on the division of responsibility ITU/IMCO.

4. ADD Q... What is the commercial value of my signals ? plus three related codes appearing on page 499 of DT/2.

Agreed in principle, but are deferred in order to give the Delegation of the U.S.A. an opportunity to provide an amendment widening the application.

5. ADD QSC DT/2 p. 509.

Agreed subject to Committee 4 decision on retention of the term "low traffic ship station".

PROPOSITIONS PROPOSALS PROPOSICIONES

SUP

		DUT		
	D	G	J	USA
QRD	x		1	x
QRE	x	x	-	x
QRF	x	x	x	×x
QSE	x	x	x	x
QSF	x	x	x	x
QSI	x			
QSM	x		-	
QSN			Ŧ	
QTD	x.		x	x
QTH			nera Ganadaootii Gal	x
QTJ	x		•	x
QTK	x	x		x
QTL	۲x	x		x
QTM	x	x		x
QTN	x	x	x	x

PROPOSITIONS PROPOSALS PROPOSICIONES

SUP

ວບກ					
	D	G	J	USA	
QTT	x				
QTW	x		x	x	
QTY	x		x	x	
QTZ	x		x	x	
QUB	x		x	x	
QUG	x	x	x	x .	
QUH	x		X	x	
QUI	x	X .	x	x	
QUJ	x	x	x	x	
QUK	x	x	x	x	
QUL	x	x	x	x	
QUO	x		x	x	
QUP	x		x	X	
ୡୄୄୄୄୄୄୄୄୄୄ୰	x	x	x	x	
QUR	x		x	x	

SUP

Annexe C au Document Nº DT/21-F/E/S Page 24

PROPOSITIONS PROPOSALS PROPOSICIONES

SUP					
	D	G	J	USA	
QUS	x		x	x	
QUT	X		x	x	
QUU	x		x	x	
QUW	x	x	x	x	
QUY	x		x	x.	
DDD		x			
DF				x	
DO				x	
E				x	
ER				x	
ETA				x	
KMH		,		x	

PROPOSITIONS PROPOSALS PROPOSICIONES

SUP						
	D.	G	J	USA		
KTS				x		
MIN				x		
N				x		
NW				x		
S ·				x		
SOS		x				
SS		. X				
TTT		x				
W				x		
XXX		x				
YES		x				

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/22-E 26 September 1967 Original : English/French

WORKING GROUP 5D AD HOC

TERMS OF REFERENCE FOR WORKING GROUP 5D AD HOC

1. To draft a procedure for the conversion from DSB to SSB operation in the HF maritime mobile radiotelephony bands, taking into account

- a) the principle of retaining Appendix 25 to the Radio Regulations (Geneva, 1959); and
- b) the inclusion in this Appendix of all additional HF radiotelephone channels made available by this Conference.

2. To draft a recommendation concerning the convening, before a date to be suggested by the Ad Hoc Group, of a World Administrative Radio Conference to establish a Frequency Allotment Plan for the High Frequency radiotelephony bands, such a Conference to be preceded by a preparatory meeting of experts.

> P.E. WILLEMS Chairman Working Group 5D



INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/23-E 26 September 1967 Original : English

WORKING GROUP 6C

DRAFT

FIRST REPORT OF WORKING GROUP 6C TO COMMITTEE 6 (OPERATION)

Article 28, RR 956

Abrogation of Recommendation No. 27 - Draft resolution

Having considered all proposals submitted to it on the above subjects, Working Group 6C <u>unanimously agreed</u> the draft new provisions reproduced in the Annex attached hereto.

> F. WIEFELSPUTZ Chairman



Annex : 1

Document No. DT/23-E page 2

ANNEX

Article 28

SUP 956

DRAFT RESOLUTION

RELATING TO THE ABROGATION OF RESOLUTION No. ... AND RECOMMENDATIONS Nos. 27 AND ... OF THE ADMINISTRATIVE RADIO CONFERENCE, GENEVA, 1959

The Maritime Conference, Geneva, 1967,

considering

that the texts in question are now obsolete

decides

that the undermentioned Resolutions and Recommendations of the Administrative Radio Conference, Geneva, 1959, are abrogated :

Recommendation No. 27 relating to "Hours of Service for Ship Stations"

Note to the Editorial Committee

It is anticipated that several other Resolutions or Recommendations may be included in this Resolution.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/24-E 26 September 1967 Original : English

WORKING GROUP 6C

REPORT OF WORKING GROUP 6C AD HOC

(Reference Document No. DI/20)

Participants :

Chairman : P.J. CHAPMAN (Australia)

Indonesia	:	E.J.S. LAHAY	U.S.A.	:	D. CHILD
Italy	:	Captain CARLOTTI	U.K.	:	Capt. F.J. WYLIE
Fed. Republic Germany	:	R.W. HARDER			P.V.G. LINTZGY
Sweden	•	SVEN-RAHMN	I.S.F.	•	M.J. ALLEN
Norway	•	P.A. TORVIK	I.F.R.O.	:	M. HANSEN
France	•	M. MARTINEZ	C.I.R.M.	:	Col. J.D. PARKER

The Working Group <u>agreed</u> that it was not competent to discuss the full terms of reference as understood by the Delegation of the United Kingdom at the last meeting of Working Group 6C, i.e. whether or not the ad hoc Working Group could consider the wishes of countries desiring to adopt the proposed single class of general radiotelegraphists' certificate.

However, it was <u>finally agreed</u> that this problem would be referred back to Working Group 6C and that Working Group 6C ad hoc could only consider the preparation of a draft Recommendation as dictated by Document No/ DT/20.

A copy of the agreed draft Recommendation is attached hereto.



Document No. DT/24-E Page 2

It was <u>further agreed</u> to recommend to the Chairman of Working Group 6C that the discussion on the United Kingdom proposal as mentioned above should precede discussion on the draft Recommendation.

> P.J. CHAPMAN Chairman, Working Group 6C ad hoc

Annex : 1

Document No. DI/24-E Page 3

ANNEX

DRAFT RECOMMENDATION

The Administrative Radio Conference, Geneva, 1967;

Considering

that Article 23 of the Radio Regulations provides for two classes of certificate as well as a special certificate for radiotelegraph operators;

that the majority of radiotelegraph operators, said to be about 70%, are the holders of the Second Class Certificate;

that it is doubtful if the higher morse speed qualification would be necessary in the future;

that there is a future need for a greater emphasis on the practical maintenance of radio equipment in service;

Recommends

that administrations consider the desirability of replacing the present two classes of certificate with one class of certificate for radio-telegraph operators more closely related to future needs.

MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/25-E 28 September 1967 Original : French

WORKING PARTY 6A

DRAFT

OF SECOND REPORT OF WORKING PARTY 6A TO COMMITTEE VI (OPERATION)

USE OF SELECTIVE CALLING DEVICES

1. General principle

The Working Party <u>unanimously decided</u> that <u>a selective calling</u> <u>system</u> should be used in the Maritime Mobile Service and that provisions to this effect should be introduced into the Radio Regulations.

2. Final objective

The Working Party <u>unanimously decided that a single international</u> <u>system should be adopted</u> operating on all bands allocated to the Maritime Mobile Service.

However, this system does not rule out the possibility of using national systems operating on frequencies other than international calling frequencies.

The Working Party also <u>recognized</u> that the final objective of a single international system could not be attained during the lifetime of the new provisions of the Radio Regulations at present being worked out.

3. Identification of calling station by ship stations

For this system to be fully effective, ship stations should be provided with a means of identifying the calling station but this should not necessarily be compulsory during the lifetime of the new provisions of the Radio Regulations at present being worked out.

4. Frequency requirements

Selective calls should normally be made on the international calling frequencies (500 kc/s, 2182 kc/s, 156.8 Mc/s) but this does not exclude the use of working frequencies or national frequencies.



As regards the HF range, the Working Party <u>unanimously decided</u> that <u>a frequency</u> is required in each of the bands allocated exclusively to the Maritime Mobile Service.

5. Conclusion

The Working Group <u>recommended</u> that the selective calling system adopted should be such as to enable a coast station to contact a ship irrespective of the type of radio equipment used by the ship or the nature of the traffic to be exchanged (radio telegrams or radiotelephone calls).

Chairman :

Albert CHASSIGNOL

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/26-E 29 September 1967 Original : English

WORKING GROUP 6B

DRAFT RESOLUTION

RELATING TO THE EXAMINATION OF PERTINENT PORTIONS OF THE REVISED INTERNATIONAL CODE OF SIGNALS (submitted by the Chairman of Working Group 6B as a basis for discussion)

The Manitime Conference, Geneva, 1967.

considering

a) that the Intergovernmental Maritime Consultative Organization (I.M.C.O.) has prepared a revised International Code of Signals which may be used in all methods of signalling including radio;

b) that the revised International Code of Signals was adopted by the 4th Assembly of the I.M.C.O. in 1965, to come into effect on first of January 1968; later emended to be first of January 1969;

c) that the I.M.C.O. Assembly at its 4th Session invited the International Telecommunication Union (I.T.U.) to make such recommendations relative to the revised International Code of Signals at an Administrative Radio Conference for the Maritime Mobile Service;

d) that the present Conference has amended certain portions of the Radio Regulations, exclusively with respect to the Maritime Mobile Service, which relate to the revised International Code of Signals in order to reduce to a minimum differences between the two documents;

e) that it is necessary to determine the responsibility of the I.T.U. and the I.M.C.O. regarding the choice and conditions of use of international signals related to radiocommunication;



resolves

1. that the International Telecommunication Union is responsible for determining the choice and conditions for the use of international signals relating to radiocommunication procedures;

2. that the Intergovernmental Maritime Consultative Organization is responsible for determining the choice and conditions of use of signals relating to other matters, such as navigation and search and rescue activities;

3. that where considered desirable, signals within the responsibility of one organization may be included for information or use in the publications of the other organization, suitably annotated as to indicate their source;

4. that after an examination of the revised International Code of Signals, the International Telecommunication Union can see no objection to the adoption of that Code;

5. that the attention of the Intergovernmental Maritime Consultative Organization should be drawn to certain differences existing between the Radio Regulations and the revised International Code of Signals;

requests the Secretary General

1. to refer to the Secretary General of the I.M.C.O. the fact that there is no objection to the adoption of the revised International Code of Signals;

2, to refer to the Secretary General of the I.M.C.O. the report prepared by the World Maritime Radio Conference (Geneva, 1967) annexed hereto.

Annex : 1

Document No. DT/26-E Page 3

A N N E X TO THE DRAFT RESOLUTION

(OUTLINE OF ITEMS WHICH

MIGHT BE INCLUDED)

1. Certain procedure signals from Section II of Appendix 13 have one meaning in the Radio Regulations for radiocommunications and a second meaning in the revised International Code of Signals for other uses. Those signals listed in Conference Document F/13(80), (page 781 of Document No.DT/2), require review to insure that modifications, additions, and deletions made to prepare Appendix 13A have not made necessary any revision of this list of signals.

2. A recommendation that signals pertaining to use of the emergency position-indicating radiobeacon, which will now be a part of the Radio Regulations, be included in the revised International Code of Signals.

3. A recommendation that I.M.C.O. examine the section of the revised International Code of Signals dealing with radiocommunications procedures and, wherever possible, align to signals of the International Telecommunication Union used for radiocommunication procedures. The I.T.U. has no objection to the use of these radiocommunications signals for communication procedures by means other than radio.

4. A recommendation that the $I_{.}T_{.}U_{.}$ would urge $I_{.}M_{.}C_{.}O_{.}$ to make the carriage of the revised International Code of Signals mandatory.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Addendum to Document No. DT/27-E 29 September 1967 Original : English

WORKING GROUP 6B

DRAFT SECOND REPORT OF WORKING GROUP 6B TO COMMITTEE 6 (OPERATION)

Emergency position-finding radiobeacons

Article 36 ADD 1388A

ADD Appendix 20A

The cover page to Document No. DT/27 apparently should have mentioned that the delegate of the U.S.S.R. reserved the right to express further views on the substance of this subject in Committee 6.

> H.A. FEIGLESON Chairman



INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/27-E 28 September 1967 Original : English

WORKING GROUP 6B

DRAFT

SECOND REPORT OF WORKING GROUP 6B TO COMMITTEE 6 (OPERATION)

Emergency position-indicating radiobeacons

Article 36 ADD 1388A

ADD Appendix 20A

Working Group 6B <u>unanimously agreed</u> to recommend the draft provisions appearing in the Annex attached hereto.

> H.A. FEIGLESON Chairman

Annex : 1



Document No. DT/27-E Page 2

ANNEX



1388A

ADD

\$5(bis) The characteristics of the emergency position-indicating radiobeacon signals are given in Nos. 1476B, 1476C and 1476D.

Note to Editorial Committee

In the English version of the Radio Regulations, at least one edition contains an error in the paragraph numbering of RR 1388 which should read " (2)" instead of "5 (1)"; also the fifth word should read "radiotelephone".

Annex to Document No. DT/27-E Page 3

APPENDIX 20A

Technical characteristics of emergency position-indicating

radiobeacons operating on the carrier frequency 2182 kc/s

(See Section VIIIA of Article 36)

Emergency position-indicating radiobeacons shall fulfill the following conditions :

a) Low power beacon (Type L)

The power radiated shall be of a value necessary to produce at a distance of 30 nautical miles at sea level a field strength equal to or less than 10 microvolts per metre, with a minimum initial field strength of at least 2.5 microvolts per metre.

b) High power beacon (Type H)

The power radiated shall be of a value necessary to produce a field strength greater than 10 microvolts per metre at a distance of 30 nautical miles at sea level.

- c) After a period of 48 hours continuous operation the radiated power shall not be less than 20 per cent of the initial power.
- d) Shall be capable of Class A2 or A2H emission, with a depth of modulation between 30 and 90 per cent.
- e) The keying signal for Type L beacon shall consist of a keyed emission modulated by a tone of 1300 cycles per second (±20 cycles per second), having a ratio of the period of the emission to the period of silence equal to or greater than one, and an emission duration between one and five seconds.

ADD

/ex.DT/2 p.655/

Annex to Document No. DT/27-E Page 4

ex.DT/2. p. 656

- f) The keying signal for a Type H beacon shall either consist of the radiotelephone alarm signal (see No. 1465) or be the same as in d) above; if the radiotelephone alarm signal be used, the morse letter 'B' and/or the call-sign of the ship to which the beacon belongs, shall be included by keying a carrier modulated by a tone of 1300 cycles per second (+20 c/s) or of 2200 cycles per second (+35 c/s).
- g) Speech transmission may be provided if administrations so desire.
- h) Equipment shall be so designed as to comply with relevant C.C.I.R. recommendations.

GENEVA, 1967

Document No. DT/28-E 28 September 1967 Original : English

WORKING GROUP 5A (AD HOC)

The ad hoc Working Group consisting of delegates of the U.S.S.R., U.S.A., Canada, Japan, Federal Republic of Germany and the United Kingdom, has considered the wording of footnote 985.3 to the Radio Regulations.

Having regard to para. 14 of the Report of the Special Meeting of C.C.I.R. Study Group XIII (Mobile Services), Geneva, 1967, the ad hoc Group considered that the special case of Japan should also be included in the footnote, and accordingly submits the following text for consideration by Working Group 5A:

985.3 "During the transition period,

- a) In certain areas administrations may reduce this requirement to Class A3 and A3J, or Class A3H and A3J emissions on working frequencies;
- b) For Japanese ships, emissions on working frequencies may be confined to Class A3J emission only for communication with their own coast stations where the circuits are not extended to the public telephone network."

R. WILSON Chairman, ad hoc Working Group



GENEVA, 1967

Document No. DT/29-E 28 September 1967 Original : English

WORKING GROUP 5A.

DRAFT

FIRST REPORT OF WORKING GROUP 5A TO COMMITTEE 5

Article 23

Nos. 863 and 903

The examination of these provisions by Working Group 5A was limited to the question of designation of the power, the final drafting of these provisions being of the competence of Committee 6.

The Working Group has decided that :

1. The first sub-paragraph of No. 863 should read as follows :

- "the peak envelope power of the transmitter does not exceed 200 Watts".

2. The two last lines of the second sub-paragraph of No. 863 should read as follows :

- "the peak envelope power of the transmitter does not exceed 1 Kilowatt".

3. The part of sentence "the carrier power of the transmitter does not exceed 100 Watts" which appears in the present text of No. 903 should be replaced by :

- "The peak envelope power of the transmitter does not exceed 400 Watts".



Document No. DT/29-E Page 2

Article 7

No. 442 - Guard-band for the distress frequency 2182 kc/s.

The Working Group decided to modify as follows the provisions of No. 442 relating to the guard-band for frequency 2182 kc/s :

"2173.5-2190.5 kc/s : Guard-band for the distress and calling frequency 2182 kc/s".

It was also decided that the two bands 2170-2173.5 kc/s and 2190.5-2194 kc/s would be reserved exclusively for the Maritime Mobile Service, but that the exact allocation of these bands would be decided later.

No. 443 - The Working Group agreed that the provisions contained in No. 443 should be kept in force during the period of transition, but that it should be decided later on in what form and in which part of the Final Acts of the conference they would appear.

It was also agreed that the spacing between the frequencies assigned to stations using single-sideband would be decided later on.

No. 444

The Working Group decided to delete these provisions from the Radio Regulations.

No. 445

The Working Group adopted the new text appearing in the Annex I to this report /See USA/125(82)/.

Article 28

No. 983

The Working Group agreed that the text of this number remains unaltered.

No. 984

The Working Group adopted the new text appearing in Annex II to this report $\underline{/See B/140(68)}$

Annexes : 2

Document No. DT/29 E page 3

ANNEX I

Article 7

• • • • • • • • • •

SUP 444

MOD 445 (4) In Regions 2 and 3, frequencies 2636.4 (carrier frequency 2635 kc/s) and 2639.4 kc/s (carrier frequency 2638 kc/s) are used as single sideband intership radiotelephony working frequencies in addition to the specific frequencies prescribed for common use in certain services. Class A3A and A3J emissions only may be used on 2636.4 kc/s. In region 3, these frequencies are protected by a guard-band between 2634 and 2642 kc/s.

Document No. DT/29-E page 4

ANNEX II

Article 28

NCC Section IV - Ship Stations using Radiotelephony.

NOC - Bands between 1605 and 4000 kc/s.

NOC 983

MOD 984 (a)

- Send class A3 or A3H emissions with carrier frequency on 2182 kc/s, and receive class A3 and A3H emission with carrier frequency on 2182 kc/s.

GENEVA, 1967

Document No. DT/30-E(Rev.) 29 September 1967 Original : English

WORKING GROUP 6C

ADOPTED TERMS OF REFERENCE FOR WORKING GROUP 6C AD HOC

In the light of the discussion in Working Group 6C, to investigate and prepare a recommendation relating to the desirability of revising the certificate structure for radio operator certificates, including the concept of permitting a general class of certificate to be issued as an alternative to the existing first and second class radiotelegraph operators' certificates by the administrations who wish to do so and the international recognition of this certificate in relation to the first and second class radiotelegraph operators' certificates.

> F. WIEFELSPUTZ Chairman, Working Group 6C



GENEVA, 1967

Document No. DF/30-E 28 September 1967 Original : English

WORKING GROUP 6C

REVISED TERMS OF REFERENCE FOR WORKING GROUP 6C AD HOC

In the light of the discussion in Working Group 6C, to investigate and prepare a recommendation relating to the desirability of revising the certificate structure for radio operator certificates, including the concept of permitting a general class of certificate to be issued as an alternative to the existing first and second class radiotelegraph operators' certificates by the administrations who wish to do so.

> F. WIEFELSPUTZ Chairman, Working Group 6C



GENEVA, 1967

Document No.DT/31-E 29 September 1967 Original : French

WORKING GROUP 5B

DRAFT

FIRST REPORT BY WORKING GROUP 5B TO COMMITTEE 5

Article 35

No. 1320

The Working Group considered that the decision whether or not to omit this number should be taken by Committee 7 in connexion with its study of the advisability of rearranging those parts of the Radio Regulations relating to the maritime mobile service.

<u>No. 1352</u>

A'majority of the Working Group decided in favour of retaining the frequencies for calling ships by coast stations in the high-frequency band.

Consideration of this number will be resumed when Committee 4 has finished examination of Appendix 15.

Nos. 1352 A and 1353

As the proposals on these numbers would change or introduce new safety or distress frequencies in the high-frequency bands, the Working Group decided that Committee 6 should be consulted. The latter is asked to specify the bands in which such safety and distress frequencies should lie.

No. 1354

The Working Party adopted the text shown in Annex I.

J. BES Chairman



Annex : 1

Document No.DT/31-E Page 2

ANNEX

MOD

1354

§ 16. The hours of service of coast stations open to public correspondence and the frequency or frequencies on which watch is maintained shall be indicated in the List of Coast Stations.

MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/32-E 29 September 1967 Original : French

WORKING GROUP 6A

DRAFT

THIRD REPORT OF WORKING GROUP 6A TO COMMITTEE 6 (OPERATION)

SPECIAL CALLING FREQUENCIES

(Article 29, Section III, RR 1013A)

1. Proposal ISR/130(8) implies that special calling frequencies should be established. On the whole, the Group felt that such frequencies are not desirable.

2. The delegations of Australia, Israel, the Republic of South Africa and the United States of America reserved the right to raise the matter again in Committee 6 if necessary.

> A. CHASSIGNOL Chairman

GENEVA, 1967

<u>Document No. DT/33-E</u> 30 September 1967 <u>Original</u> : English

WORKING GROUP 6C

DRAFT

SECOND REPORT OF WORKING GROUP 6C. TO COMMITTEE 6 (OPERATION)

<u>Chapter IX</u> - <u>Radiotelegrams and Radiotelephone Calls</u> - Articles 37, 38, 39 and 40.

Appendices 21 and 22 - Additional Radio Regulations in part

Having considered all the proposals submitted to it on the above provisions, Working Group 6C <u>unanimously adopted</u> the <u>status quo</u> or revision as shown in the Annex attached hereto.

F. WIEFELSPÜTZ

Chairman



Annex : 1

Document No. DT/33-E Page 2

ANNEX

Articles 37, 38 and 39

	NOC	1496 - 1504	<u>/</u> subject to adoption DT/34_7									
			Article 40									
	NOC	1505 - 1529	/ subject to adoption DT/34 7									
(ex-DT/2 p.427)	(MOD)	1530	(concerns French and Spanish texts only - replace "or" by "and")									
	NOC	1531 - 1559	/ subject to adoption DT/34 7									
	NOC I	Appendices 21 and 22	<u>/</u> subject to adoption DT/34_7									
	Additional Radio Regulations											
		Art	icles 1, 2 and 3									
	NOC	2001 - 2017	/ subject to adoption DT/34 /									
			Article 4									
	NOC	2018 - 2030	/ subject to adoption DT/34 $/$									
	SUP	2031										
	NOC	2032 - 2039	/ subject to adoption DT/34 7									
	(MOD)	2040	Sil. The land station or ship or aircraft station charges for radio- telegrams concerning stations not yet									

aircraft station charges for radiotelegrams concerning stations not yet included in the appropriate list of stations are fixed, as part of its duties, by the office which collects the charge. The ship or aircraft station charges pertaining to radiotelegrams intended for mobile stations the names or call signs of which are replaced by the indication of the route followed or by any other equivalent indication (see No. 2011), are also fixed, as part of its duties, by the office which collects the charge.

Annex to Document No. DT/33-E Page 3

They are the normal rates notified by the administration(s) in question or, in, the absence of such notification, they are the maximum charges prescribed in No. 2025.

/subject to adoption DT/34 7

Meteorological radiotelegrams must bear the service instruction =OBS= at the beginning of the preamble and the paid service indication =OBS= before the address. This paid service indication is the only one admitted.

/ subject to adoption DT/34 7

D. Press radiotelegrams

Press telegrams from a mobile station to the mainland shall be admitted as press radiotelegrams.

/ subject to adoption DT/34 7

\$18. (1) The land station and ship or aircraft charges are reduced by 50 per cent. These radiotelegrams are subject to the conditions of acceptance laid down in Articles 65 to 69 of the Telegraph Regulations (Geneva revision, 1958). For those radiotelegrams which are addressed to a destination in the country of the land station, the telegraph charge to be collected is one-half of the telegraph charge applicable to an ordinary radiotelegram.

NOC	2060 - 2062	<pre>subject to adoption DT/34_7</pre>
		Articles 5 and 6
NOC	2063 - 2106	/ subject to adoption DT/34 7

NOC 2041 - 2053 (ex-DT/2 MOD 2054 p.681)

	NOC	2055 - 2057
(ex-DT/2 p.682)	ADD	2057A
	NOC	2058
	MOD	2059

.

Annex to Document No. DT/33-E Page 4

Article 7

:	NOC	2107	
(ex - DT/2 p.685)	MOD	2108	a) Press radiotelegrams in the conditions specified in Nos. 2057A to 2060.
(ex-DT/2 p.685)	MOD	2109	b) Meteorological radiotelegrams in the conditions mentioned in Nos. 2053 to 2057.
	NOC	2110 - 2111	/ subject to adoption DT/34 7
	NOC	2112	
	NOC	2113 - 2117	/subject to adoption $DT/3^{l_{+}}$
	ADD	2117A	The supplementary charges levied by the offices of origin or by mobile stations for the special radiotelegram category mentioned in Nos. 2110 to 2117 inclusive
			shall be the charges specified in the Telegraph Regulations.
(ex-DT/2 p.686)	MOD	2118	k) Radiotelegrams to be retransmitted by one or two mobile stations at the sender's request (=RM=), (in the conditions specified in Nos. 2152 to 2154).
(ex-DT/2 p.686)	MOD	2119	 Radiomaritime letters and radio air letters (in the conditions specified in Article 6 AR).
(ex -DT /2 p.686)	MOD	2120	m) Radiotelegrams concerning persons protected in time of war by the Geneva Conventions of 12 August 1949 (=RCT=) (in the conditions specified in Nos. 2061 and 2062).
	SUP	2121	

Annex to Document No. DT/33-E Page 5

(ex-DT/2 p.686) MOD 2122

2123

NOC

S2. In addition, the following paid service indications shall be permitted in radiotelegrams : =GP=, =GPR=, =MP=, =TR=, =TFx= (from ship or aircraft to land), =TLXx= (from ship or aircraft to land), =Jx= (from land to ship or aircraft), =Réexpédié de x= (only when the charge for forwarding can be collected), =Jour=, =Nuit=, =Etat Priorité Nations=, =Etat Priorité=, =Etat=, =Remettre x= (from ship or aircraft to land).

7 subject to adoption DT/34 7

GENEVA, 1967

Document No. DT/34-E 2 October 1967 Original : English

WORKING GROUP 6C

SUPPLEMENTARY REPORT

BY THE CHAIRMAN OF WORKING GROUP 6C LISTING THE RR AND AR, IN PART, TO WHICH NO PROPOSALS HAVE BEEN SUBMITTED TO THIS CONFERENCE

RR

Articles 37, 38, 39 Article 40 Appendix 21 Appendix 22	: Nos. 1496 - 1504 : Nos. 1505 - 1529, 1531 - 1559
AR	
Articles 1, 2, 3 Article 4	<pre>: Nos. 2001 - 2017 : Nos. 2018 - 2030, 2032 - 2039 Nos. 2041 - 2053, 2055 - 2057 Nos. 2058, 2060 - 2062</pre>
Articles 5, 6 Article 7	: Nos. 2063 - 2106 : Nos. 2110 - 2111, 2113 - 2117 No. 2123

F. WIEFELSPUTZ Chairman



GENEVA, 1967

Document No. DT/35-E 2 October 1967 Original : English

WORKING GROUP 5A

DRAFT

SECOND REPORT OF WORKING GROUP 5A TO COMMITTEE 5

Article 28

No. 985

The Working Group adopted the new text appearing in the Annex to this report as well as the text of two additional footnotes 985.2 and 985.3.

No. 986

The Working Group adopted the new text which appears in the Annex to this report.

No. 987

The Working Group decided that the text of this number would remain unaltered.

No. 992

The Working Group adopted the following text for the last part of this number :

"OZ, on the carrier frequency 2182 kc/s, transmitting class A3 or A3H emissions and receiving class A3 and A3H emissions." (The drafting of the first part of this number has been dealt with by Committee 4).

No. 996

The Working Group adopted the new text which appears_in the Annex to this report.

The Chairman : P. AAKERLIND



Annex : 1

Document No. DT/35-E Page 2

ANNEX

Article 28

			·
			• • • • • • • • • • • • • • • • • • • •
	MOD	985	b) send in addition class A3 or A3H, A3A and A3J emissions on at least two working frequencies; 1) 2) 3)
·	MOD	986	c) receive in addition class A3 and A3H or A3H, A3A and A3J emissions on all the other frequencies necessary for their service. 3)
	NOC	987	
	NOC	985.1	
	ADD	985.2	2) "During the transition period
			a) In certain areas administrations may reduce this requirement to class A3 and A3J, or class A3H and A3J emissions on working frequencies.
			b) For Japanese ships, emissions on working frequencies may be confined to class A3J emission only for communication with their own coast stations where the circuits are not extended to the public telephone network."
	ADD	985.3	3) After the transition period class A3 and A3H emissions are no longer authorized.
		• • • • •	• • • • • • • • • • • • • • • • • • • •
	MOD	996	- in the bands between 1605 and 2850 kc/s, be able to transmit on carrier frequency 2182 kc/s using class A3 or A3H emissions. If a receiver is provided for any of these bands, it shall be able to receive class A3 and A3H emissions on carrier frequency 2182 kc/s.

GENEVA, 1967

Document No. DT/36-E 2 October 1967 Original : French/English/ Spanish

WORKING GROUP 5D

REPORT OF WORKING GROUP 5D AD HOC

Participants :

Chairman : Mr. P.V. Larsen (Denmark)

Delegations of :

Brazil

Canada

United States of America

France

India

Netherlands

United Kingdom

Union of Soviet Socialist Republics

Representatives of the I.F.R.B. also participated

The Ad Hoc Working Group submits to Working Group 5D the following Report, which covers the task entrusted to the Group according to Document No. DT/22.



FUTURE USE OF THE HF RADIOTELEPHONE CHANNELS

FOR COAST STATIONS, TAKING INTO ACCOUNT THE NEW CHANNELS

MADE AVAILABLE BY THE PRESENT CONFERENCE

According to its terms of reference (Document No. DT/22), Working Group 5D Ad hoc <u>unanimously recommends</u> the following to Working Group 5D :

1.

2.

A World Administrative Radio Conference should be convened in 1973 to prepare, on the basis of SSB operation, a Frequency Allotment Plan for High Frequency radiotelephone coast stations in the frequency bands specified in No. 448 of the present Radio Regulations and in the additional frequency bands made available to maritime radiotelephony by the present Conference; a draft Recommendation to this effect is contained in Annex 1 hereto.

Between the date (possibly 1971) when the new channels in such additional frequency bands are made available to radiotelephony, and the date (possibly 1974) of entry into force of the new Frequency Allotment Plan prepared by the 1973 Radio Conference, the new channels should be used for maritime radiotelephony according to the provisions of the draft Resolution contained in Annex 2 hereto. It is recommended that

Document No. DT/36-E Page 3

Working Group 5B should consider the matter of power limitations referred to in paragraph 1 of the draft Resolution.

It is also recommended that the new channels should be included by the present Conference in Appendix 17 and in a separate section (Section III) to be added to Appendix 25; however no allotments to countries should appear in this section.

> P.V. LARSEN Chairman of Working Group 5D Ad hoc

Annexes : 2

3.

Document No. DT/36-E Page 4

ANNEX 1

DRAFT

RECOMMENDATION No.

RELATING TO THE PREPARATION OF A NEW FREQUENCY

ALLOTMENT PLAN FOR HF - RADIOTELEPHONE COAST STATIONS

The World Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service (Geneva, 1967),

considering

a) that the present Frequency Allotment Plan for coast radiotelephone stations contained in Appendix 25 to the Radio Regulations (Geneva, 1959), was initially prepared by the Provisional Frequency Board in the years from 1948 to 1950 and was subject to amendments by the Extraordinary Administrative Radio Conference, Geneva (1951), and by the Administrative Radio Conference, Geneva (1959);

b) that the Plan has already been implemented to a great extent,
 this being illustrated by the assignments, corresponding to allotments,
 recorded in the Master Register;

c) that a number of additional assignments has also been recorded in the Master Register;

Annex 1 to Document No. DT/36-E Page 5

d) that the introduction of SSB technique in the maritime HF radiotelephone bands has already started on the basis of the provisions of Appendix 17 to the Radio Regulations (Geneva, 1959), and that the conversion from DSB to SSB will continue, guided by the timetable and the supplementary technical specifications adopted by the present Conference;

e) that DSB operation in the frequency bands concerned will continue until for coast stations and for ship stations;

f) that the Conference has decided to create as from new HF - radiotelephone channels to be used in accordance with the provisions of Resolution No., to include such new channels in Appendix 17 and, without allotting them to countries, in Section III of Appendix 25;

g) that it was found impracticable for the present Conference to prepare a new Frequency Allotment Plan, but it was found necessary that such a Plan be prepared by a subsequent conference;

h) that it is expedient to have our expert group to lay down in advance of a planning conference the technical basis necessary for the preparation of a frequency plan;

in view of

the provisions of Nos. 60 and 61 of the International Telecommunication Convention, Montreux (1965);

Annex 1 to Document No. DT/36-E Page 6

recommends

2.

4.

1. that a World Administrative Radio Conference be convened in order :

1.1 to prepare on the basis of SSB operation a new Frequency Allotment Plan for HF - radiotelephone coast stations, covering the frequency bands in the present Appendix 25 as well as the new channels referred to in f) above;

1.2 to amend the associated provisions of the Radio Regulations;

that such a conference be convened in 1973;

3. that the Administrative Council determine the exact date and place of such a conference, in accordance with No. 64 of the Convention;

that this conference be preceded by a preparatory meeting, in accordance with No. 73 of the Convention.

Document No. DT/36-E Page 7

ANNEX 2

DRAFT

RESOLUTION No.

RELATING TO THE USE OF THE NEW HF CHANNELS

MADE AVAILABLE TO MARITIME RADIOTELEPHONY

BY THE PRESENT CONFERENCE

The World Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service (Geneva, 1967),

considering

a) that the Conference has decided to create as from new HF radiotelephone channels to be included in Appendix 17 and, without alloting them to countries, in a new section (Section III) of Appendix 25;

b) that the Conference also decided to recommend that a World Administrative Radio Conference be convened in 1973 to prepare a new frequency allotment plan for HF radiotelephone coast stations, covering the frequency bands in the present Appendix 25 as well as the new channels referred to in a) above;

Annex 2 to Document No. DT/36-E Page 8

c) that, however, interim measures have to be taken by administrations and by the I.F.R.B. in order to provide for an orderly use of the new channels between the date when they are made available to maritime radiotelephony and the date of entry into force of the new frequency allotment plan;

decides that

1. during the interim period referred to in c) above, the new channels should be used for SSB operation, and also for DSB operation where technically feasible, in accordance with the time table for conversion to SSB operation laid down by the present Conference; / the peak envelope power of the transmitters shall be limited to for coast stations and for ship stations;/

2. the I.F.R.B. shall collect from administrations requirements for use of these new channels;

urges administrations

3. to submit only those requirements considered essential for use during the interim period referred to in c) above, in view of the limited number of new channels available for maritime radiotelephony;

Annex 2 to Document No. DT/36-E Page 9

further decides that

4. after compilation of the requirements collected from administrations, the Board, in consultation, where appropriate, with the administrations concerned, shall endeavour to distribute such requirements amongst the new channels, by dealing with them in the following order:

- 4.1 requirements from those countries which have no allotments in the present Appendix 25, which have no assignments to HF radiotelephone coast stations recorded in the Master Register and which are in urgent need of frequencies for HF maritime radiotelephony;
- 4.2 requirements from those countries which have assignments to HF radiotelephone coast stations recorded in the Master Register, but which have a large volume of traffic-to handle and whose present assignments are causing or experiencing harmful interference;

5. the distribution of requirements amongst the new channels in accordance with paragraph 4 above shall be circulated to all administrations at least six months before the new channels are made available for maritime radiotelephony;

6. the channels distributed in accordance with paragraph 4 above shall be regarded as allotments to the countries concerned from the point of

Annex 2 to Document No. DT/36-E Page 10

view of the frequency notification and registration procedure to be applied as from the date these become available;

7. as from that date, the relevant provisions of Nos. 541 to 551 of the Radio Regulations, insofar as they refer to Section I of Appendix 25, shall apply also to the frequency bands covered by the new channels (Section III of Appendix 25), for the examination by the I.F.R.B. of frequency assignment notices for transmission or reception by coast stations;

8. the dates to be entered in Column 2a or Column 2b of the Master Register according to the findings reached by the Board after the examination referred to in paragraph 7 above, shall be in accordance with the relevant provisions of Nos. 577 to 586 of the Radio Regulations;

9. the above procedure, which should be discontinued on the date of entry into force of the new frequency allotment plan to be prepared by the 1973 Radio Conference, is of an interim nature and shall not prejudge the decisions to be taken by the 1973 Radio Conference; a suitable remark to this effect shall be entered in the Master Register for the frequency assignments in the bands concerned.

GENEVA, 1967

<u>Document No. DT/37-E</u> 3 October 1967 <u>Original</u> : French

WORKING GROUP 5B

USE ON BOARD SHIPS OF FREQUENCIES OF THE ORDER OF 27 Mc/s (Proposal F/15(91))

The following draft text was prepared to take account of views expressed at the meeting held on 2 October 1967.

Article 35

of

ADD Section III bis Bands between 26100 and 27500 kc/s ADD 1358A Frequencies in the 26960 - 27280 kc/s band may be used for radiotelephony between different parts of a ship¹. Class A3 emission is to be used. ADD 1358B The carrier wave power may not exceed / / milliwatts. The mean power of any spurious radiation from a transmitter must not be more than db less than the mean power on the fundamental frequency. ADD 13580 Any harmful interference with connexions established by virture of No. 1358A that may be caused by the operation of industrial, scientific and medical equipment (No.225) or by other emissions authorized by these Regulations, must be accepted. ¹ This provision does not apply in the territorial waters 1358A.1

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MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/38-E 3 October 1967 Original : French

WORKING GROUP 5B

DRAFF-

SECOND REPORT BY WORKING GROUP 5B

TO COMMITTEE 5

Article 35

Nos. 1351A and 1355A

It is proposed that the texts of Nos 1351A and 1351B as shown in Annex I hereto should be adopted. They incorporate the provisions which it was proposed to include in Nos. 1351A and 1355A. It was agreed that :

- 1) the bandwidth required should be determined at a later date;
- 2) the conference to be convened to prepare a new plan should decide whether the use of class A3B emission should be retained after the transition period.

No. 1358

It was decided that the technical characteristics of transmitters (and receivers) should be the subject of a special appendix (Appendix 17A). A reference to this appendix will be made in No. 1358 (Article 35), the new text of which is given in Annex I hereto.

Appendix 17A

The Working Group adopted the text of paragraph 1 with regard to classes of emission A3J and A3A (points a) and b)) (see Annex II). The text of point c) on the A3H class of emission will be completed once the appropriate decision has been reached.

J. BES Chairman

(

Annexes : 2

Document No. DT/38-E Page 2

ANNEX I

Article 35

ADD

1351A

1351B

Unless otherwise provided in these Regulations /see Nos...../, the classes of emission used for radiotelephony in the bands between 4000 and 23 000 kc/s shall be A3, A3H, A3A or A3J and exceptionally A3B.

After the end of the transition period, unless otherwise provided / see Nos. /, only A3A and A3J classes of emission shall be permissible; the upper sideband shall be used and the necessary bandwidth shall not exceed / / kc/s.

ADD

The normal mode of operation of each coast station is shown in the List of Coast Stations.

MOD 1358

The technical characteristics of transmitters (and receivers) used in the maritime mobile service for radiotelephony in the bands between 4000 and 23 000 kc/s are specified in Appendix 17A.

Document No. DT/38-E Page 3

ANNEX II

APPENDIX 17A

<u>Technical characteristics of transmitters (and receivers)</u> used in the maritime mobile service for radiotelephony in the bands between 4000 and 23 000 kc/s

- a) Foremissions in class A3J the power of the carrier shall be more than 40 db less than the peak power of the emission.
- b) For emissions in class A3A the power of the carrier shall be 16 ± 2 db less than the peak power of the emission.
- c) For emissions in class A3H the power of the carrier shall be $\int \int db$ less than the peak power of the emission.

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ADD

1.

GENEVA, 1967

Document No. DT/39-E 3 October 1967 <u>Original</u> : French/English

WORKING GROUP 6A

DRAFT

FOURTH REPORT OF WORKING GROUP 6A TO COMMITTEE 6

(OPERATION)

<u>General Radiotelegraph Procedure</u> (Article 29, Section III continued to Section VII)

Calls by Radiotelegraphy (Article 30)

Radiotelegraphic Calls to Several Stations (Article 31)

Working Group 6A <u>unanimously agreed</u> the new provisions and revision of the Radio Regulations reproduced in the Annex attached hereto.

A. CHASSIGNOL Chairman



Annex : 1

Document No. DT/39-E Page 2

ANNEX

			Article 29, Section III (cont.)
	NOC	1013	/held in abeyance/
•	ADD	1013A	/held in abeyance/
	NOC	1014	
	MOD	1015	/held in abeyance/
	ADD	10 1 5A	/held in abeyance/
	NOC	1016	
)	MOD	1017	(2) When, in the aeronautical mobile service, as an
			exception to this rule, the call is not followed by an indication of the frequency to be used for the traffic, this indicates :
	NOC	1018	
	NOC	1019	
)	ADD	1019A	(3) When, in the maritime mobile service, as an exception to No. 1016 the call is not followed by an indication of the frequency to be used for the traffic, this indicates that the calling station is a coast station and that it proposes to use for traffic its normal working frequency shown in the List of Coast Stations.
	NOC	1020 - 1022	
、	MOD	1023	Sll.(1) Except as otherwise provided for in these

Sll.(1) Except as otherwise provided for in these regulations, for transmitting the reply to calls and to preparatory signals, the station called shall use the frequency on which the calling station keeps watch, unless the calling station has specified a frequency for the reply.

- (ex DT/2,
- page 218)
- (ex DT/2,
- page 218)

- (ex DT/2,
- page 218)

<u>Annex to Document No. DT/39-E</u> Page 3

	-		Article 29, Section III (cont.)
	SUP	1024	
	SUP	1025	
	SUP	1026	
	NOC	102 7- 1040	
			<u>Sections IV - VII</u>
	NOC	10 41- 1062	
			Article 30
	NOC	1063- 1068	
(ex DT/2, page 224)	ADD	1068A	(2) bis. However, in the bands between 4000 and 27 500 kc/s a coast station may transmit its call sign at intervals to enable mobile stations to select the calling band with the most favourable propagational characteristics for effecting reliable communication (see No. 1162).
(ex DT/2, page 223)	MOD	1069	(3) Coast stations shall transmit their traffic lists on their normal working frequencies in the appropriate bands. This transmission shall be preceded by a call to all stations (CQ).
(ex DT/2, page 223)	MOD	1070	(4) The call to all stations preceding the traffic list may be sent on a calling frequency in the following form :
			- CQ, not more than three times;
			- the word DE;
			- the call sign of the calling station, not more than three times;
			- QSW followed by the indication of the working frequency or frequencies on which the traffic list is about to be sent.
			In no case may this preamble be repeated.

	·	- · · · ·	
			Article 30 (cont.)
(ex DT/2, ⁻ page 224)	MOD	1071	(5) The provisions of No. 1070 :
page 224)	ADD	1071A	a) are obligatory when 500 kc/s is used;
	(MOD)	1072	b) do not apply when frequencies in the bands between 4000 and 27 500 kc/s are used.
	NOC	1073- 1076	
	MOD	1077)	
	ADD	1077A	
	SUP	1078	/held in abeyance/
	NOC	1079	
	SUP	1080)	
	NOC	1081- 1087	
			Article 31
	NOC	1088- 1094	

GENEVA, 1967

Document No. DT/40-E 4 October 1967 Original : English

WORKING GROUP 6A

REPORT BY WORKING GROUP 6A AD HOC

<u>General Radiotelegraph Procedure</u> (Article 29 in part) Calls by Radiotelegraphy (Article 30 in part)

Participants in Working Group 6A ad hoc :

Chairman : Mr. Raymond E. SIMONDS (U.S.A.)

Delegations of Denmark, France, Ghana, Japan, Norway, the Netherlands, the United Kingdom and Switzerland.

Working Group 6A <u>ad hoc</u> <u>unanimously agreed</u> to recommend the adoption of the texts which appear in the Annex attached hereto.

The Group recalls that in the First Report of Working Group 6A (Document No. 181) the text of No. 1012A should be deleted as the same text has been incorporated in Article 30 with the numbering 1077A.

Raymond E. SIMONDS

Chairman

Annex : 1

Document No. DT/40-E Page 2

ANNEX

Article 29 - Section III

	ADD	1013A	The procedure given in No. 1013 is not applicable to the maritime mobile service (see Nos. 1077A, 1077B and 1077C)
•		,	Article 30
<u>/</u> ex Doc.18 <u>1</u> /	ADD	1077A	(1) bis. However, in the maritime mobile service bands between 4000 kc/s and 27 500 kc/s the call consists of:
			- the call sign of the station called, not more than three times;
			- the word DE;
			- the call sign of the calling station, not more than three times;
			- the signal BT;
			- the call sign of the station called, once only;
			- the letter K.
(ex DT/2 p.217)	ADD	1077B	(1) ter. For normal calling in the maritime mobile bands between 4000 kc/s and 27 500 kc/s when the requirements of No. 1162 have been met, the call specified in No. 1077A may be repeated at intervals of not less than one minute for a period
			not exceeding five minutes and shall not be renewed until after an interval of ten minutes.
/ex DT/2 p.215/	ADD	10770	(1) quater. However, in the maritime mobile bands between 4000 kc/s and 27 500 kc/s, when the conditions of establishing contact are difficult, the call sign may be transmitted not more than ten times in succession. The call shall consist of :
• •		•	- the call sign of the station called, not more than ten times;
			the more DI

- the word DE;

- the call sign of the calling station, not more than three times;

/ex DT/2 p.215/ (cont.)

- the signal BT;
- the call sign of the station called, once only;
- the letter K.

If necessary, this call may be repeated a second time, (see No. 1079). Each group of two consecutive calls may be repeated three times at intervals of two minutes; thereafter it shall not be repeated until an interval of 10 minutes has elapsed.

SUP 1080

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

GENÈVE, 1967

Document N° DT/41-F/E/S 3 octobre 1967 Original : anglais

COMMISSION 4 COMMITTEE 4 COMISIÓN 4

PROPOSITIONS-CONCERNANT L'ARTICLE 32

La liste ci-jointe contient les numéros des documents et des propositions concernant l'article 32 du Règlement des radiocommunications, ainsi que des références au Document N° DT/2.

Le Président de la Commission 4 :

F.G. PERRIN

PROPOSALS CONCERNING ARTICLE 32

The attached list contains document and proposal numbers concerning Article 32 of the Radio Regulations and references to Document No. DT/2.

F.G. PERRIN

Chairman of Committee 4

PROPOSICIONES RELATIVAS AL ARTÍCULO 32

En la lista que adjunto se acompaña se indican los números de los documentos y proposiciones relativos al artículo 32 del Reglamento de Radiocomunicaciones, así como las referencias al Documento N.° DT/2.

El Presidente de la Comisión 4,

F.G. PERRIN

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Article/Artículo 32

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	UP 1098 UP 1099	\$	GRC/160(5)			
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MOD	1196	F/8(24)	. 11	11	267
MOD	1196	G/77(40)	11	· 11	271
MOD	1 196	HOL/72(10)		11	274
MOD	1196	I/33(20)	. 11 • ·	11	275
SUP	1197	AUS/122(36)			
MOD	1197	B/138(51)			
MOD	1197	F/10(59)			

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MOD	1197	G/'7'7(40)	DT/2	page/página	271
SUP	1198	AUS/122(36)			
SUP	1199	AUS/122(36)			
MOD	1200	AUS/122(37)			
SUP	1201	AUS/122(38)			
ADD	1201A	AUS/122(39)			
ADD	1201B	AUS/122(40)			
SUP	1205	AUS/122(41)			
SUP	1206	AUS/122(41)			
ADD	1206A	B/137(15)			
ADD	1206A	USA/17(23)	11	81	276
ADD	1206B	B/137(16)	•		
ADD	1206B	USA/17(23)	t1	, tt	276
ADD	1206C	B/137(17)			
ADD	1206C	USA/17(23)	t7	71	276

GENEVA, 1967

Document No. DT/42-E 4 October 1967 <u>Original</u>: English

WORKING GROUP 6C

MEMORANDUM BY THE CHAIRMAN OF WORKING GROUP 6C

The attention of delegations is invited to Document No. 201, page 1, which contains decisions of Committee 5 pertaining to Nos. 863 and 903 of Article 23 (Operators' certificates for ship and aircraft stations).

Document No. 201, page 1, therefore, will be taken up by Working Group 6C when the revision of Article 23 is reconsidered.

Additionally, I wish to advise that the Second Report of Working Group 6C ad hoc is contained in Document No. DT/43 (agenda item 2 for Thursday morning - GT 6C(Rev.) - refers):

F. WIEFELSPÜTZ

Chairman

GENEVA, 1967

Document No. DT/43,4E 4 October 1967 Original : English

WORKING GROUP 6C

SECOND REPORT OF WORKING GROUP 6C AD HOC

DRAFT RESOLUTION

Relating to the Issue of a General Class of Radiocommunication Operators General Certificate for the Maritime Mobile Service

Participants in the Working Group 6C ad hoc :

Chairman : Mr. P.J. CHAPMAN (Australia)

Delegations of the U.S.A., France, Greece, Indonesia, Italy, Norway, Fed. Rep. of Germany, the United Kingdom and Sweden.

Observers of the C.I.R.M. and I.S.F.

2. Working Group 6C ad hoc <u>unanimously agreed</u> to recommend the adoption of the draft resolution reproduced in the Annex hereto.

3. The present report cancels and replaces the First Report (Document No. DT/24).

P.J. CHAPMAN Chairman

CHIVES GENE

Annex : 1

1.

Document No. DT/43-E Page 2

ANNEX

DRAFT RESOLUTION

Relating to the Issue of a General Class of Radiocommunication Operators General Certificate for the Maritime Mobile Service

The World Administrative Radio Conference, Geneva, 1967,

considering

a)

b)

c)

d)

1.

2.

that Article 23 of the Radio Regulations, Geneva, 1959, provides for two classes of certificate as well as a special certificate for radiotelegraph operators;

that the majority of radiotelegraph operators are the holders of the second class certificates;

that it is doubtful if the higher morse speed qualification of the first class certificate would be necessary in the future;

that there is a future need for a greater emphasis on the practical maintenance of radio equipment in service;

is of the opinion

that administrations should consider the desirability of replacing the present two classes of certificate with a general class of certificate for radiotelegraph operators more closely related to future needs;

that in considering the issue of such a certificate administrations take into account the desirability of modified certificate qualification as appended hereto in Annexes 1, 2 and 3; and in connection therewith

resolves

that administrations which wish to issue a general class of certificate are authorized to do so, and such general class of certificate shall be recognized as an alternative to present first and second class certificates for purposes of the Radio Regulations provided the certificate maintains at least the practical technical standards of present first and second class certificates in all respects except for the morse code speed which shall not be less than in No. 884 of the Radio Regulations.

Annexes : 3

Annex 1

Conditions for the issue of the radiocommunication operator's general

certificate - Maritime

1. The radiocommunication general certificate is issued to candidates who have given proof of the technical and professional knowledge and qualifications enumerated below.

2. Knowledge of the principles of electricity, the theory of radio and marine aerial systems, sufficient to meet the requirements of paragraphs 3, 4 and 5 below.

3. Theoretical knowledge of marine radiotelegraph and radiotelephone transmitters and receivers; automatic alarm devices; radio equipment for lifeboats and other survival craft; direction-finding equipment; together with all auxiliary items, including power supply auxiliaries (such as motors, alternators, generators, inverters, rectifiers, and accumulators) with particular reference to maintaining the equipment in service.

4. Practical knowledge of the operation, adjustment and maintenance of the apparatus mentioned in paragraph 3) above, including the taking of direction-finding bearings and the calibration of radio direction-finding apparatus.

5. Practical knowledge necessary for the location and remedying (with the means available on board) of faults which may occur during a voyage, in the apparatus mentioned in paragraph 3) above.

6. Ability to send correctly by hand and to receive correctly by ear, in the Morse Code, code groups (mixed letters, figures and punctuation marks), at a speed of sixteen groups a minute, and a plain language text at the speed of twenty words a minute. Each code group shall comprise five characters, each figure or punctuation mark counting as two characters. The average word of the text in plain language shall contain five characters. The duration of each test of sending and receiving shall be, as a rule, five minutes.

7.

Ability to send correctly and to receive correctly by telephone.

8. Knowledge of the Regulations applying to radiocommunications, knowledge of the documents relating to charges for radiocommunications, knowledge of the provisions of the Convention for the Safety of Life at Sea which relate to radio.

9. A sufficient knowledge of world geography, especially the principal shipping and air routes and the most important telecommunication routes.

10. Knowledge of one of the working languages of the Union. Candidates should be able to express themselves satisfactorily in that language, both orally and in writing. Each administration shall decide for itself the language or languages required.

Annex 2

Qualifying service

1. An operator holding a radiocommunication operator's general certificate is authorized to embark as chief operator of a ship station of the fourth category (see No. 932 of the Radio Regulations).

2. Before becoming chief operator of a ship station of the second or third category (see Nos. 931 and 931A of the Radio Regulations) an operator shall hold a radiocommunication operators general certificate and shall have had at least six months experience as operator on board ship or in a coast station.

3. Before becoming chief operator of a ship station of the first category (see No. 930 of the Radio Regulations) an operator shall hold a radiocommunication operator's general certificate, and shall have had at least two years experience as operator on board ship or in a coast station.

Annex 3

Class and minimum number of operators for ship stations

1. In the public correspondence service, each government shall take the necessary steps to ensure that ship stations of its own nationality have personnel adequate to perform efficient service.

2. The personnel of these ship stations shall, having regard to the provisions of Article 23 and Section IV of Article 25 of the Radio Regulations include at least :

3. Ship stations of the first category; a chief operator holding a radiocommunication operators general certificate.

4. Ship stations of the second and third categories; one operator holding a radiocommunication operator's general certificate.

5. Ship stations of the fourth category, except in the case provided for in paragraph 6) below; one operator holding a radiocommunication operator's general certificate.

6. Ship stations in which a radiotelegraph installation is provided but not prescribed by international agreements; one operator holding a radiocommunication operator's general certificate or a radiotelegraph operator's special certificate as provided for in Nos. 889 to 893 of the Radio Regulations.

7. Ship station equipped with a radiotelephone installation; one operator holding a radiocommunication operator's general certificate or a radiotelephone operator's certificate as provided for in No. 918 of the Radio Regulations.

GENEVA, 1967

Document No. DT/44-E 4 October 1967 Original : English

WORKING GROUP 5A

DRAFT

THIRD REPORT OF WORKING GROUP 5A

TO COMMITTEE 5

Article 35

No. 1319

It was decided that the text of this number would remain unaltered.

No. 1320

No decision has been taken with respect to this number since it had already been dealt with by Working Group 5B which referred it to Committee 7.

No. 1321

No proposal having been submitted with respect to this number, it thus remains unchanged.

No. 1321A

The Working Group adopted the new text which appears in the annex. The delegation of U.S.S.R. reserved its right to raise again this question when submitted for approval.

No. 1322

No proposal having been submitted with respect to this number, it thus remains unchanged.

No. 1322A

The Working Group adopted the new text which appears in the annex.



Annex : 1

Document No. DT/44-E Page 2

ANNEX

Article 35

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	• • •	
NOC	1319	
	• • •	R 6 6 6
NOC	1321	
ADD	1321A	Frequencies on which SSB emissions are sent shall be designated by the assigned frequency followed, in brackets, by details of the carrier frequency.
NOC	1322	
	• • •	
ADD	1322 A	Unless otherwise specified in the present Regulations (see Nos. 987, 996, 1323, 1336 and 1337), the class of emission to be used in the bands between 1605 and 4000 kc/s shall be class A3A or class A3J using the upper sideband and with the necessary bandwidth not exceeding 2.7 kc/s. Before the end of the transition period, class A3 or A3H emissions are also required. The normal method of operation for each coast station shall be indicated in the List of Coast Stations.

GENEVA, 1967

Document No. DT/45-E 5 October 1967 Original : English

WORKING GROUP 5A

TENTATIVE ADVANCE DRAFTS OF TEXTS

FOR WORKING GROUP 5A

	USA	MOD NOC	1323	83.(1) The frequency 2182 kc/s ¹ is the inter- national distress frequency for radiotelephony; it shall be used for this purpose by ships,
	RFA			aircraft, survival craft stations and by floatable emergency position-indicating radio beacons using frequencies in the authorized bands between 1605 and 4000 kc/s when requesting
,	RFA			assistance from the maritime services. It is used for the distress call and distress traffic, for signals of floatable emergency position-
				indicating radio beacons, for the urgency signal and urgency messages and for the safety signal, safety messages shall be transmitted where
	F F	amended amended		practicable, on a working frequency after a preliminary announcement on 2182 kc/s. The class of emission to be used for the frequency 2182 kc/s shall be A3 or A3H (see 984).
	F J	ADD	1323.1	(1) Whatever the class of emission used, the value indicated, 2182 kc/s, always designates the carrier frequency of the emission.
	RFA, USA	NOC	1324	
•	Chairman	MOD	1325	(3) Except for transmissions authorized on the carrier frequency 2182 kc/s, all transmissions on the frequencies between 2173.5
-	G, F, J, RFA, HOL, I, USA			and 2190.5 kc/s are forbidden ¹ .



Document No. DT/45-E Page 2

USA I F	ADD amended amended amended	1325.1 1330AA 1329A	(1) Transmissions on the two channels of 3.5 kc/s bandwidth each with assigned frequencies and kc/s formed by reduction of the band 2170 - 2194 kc/s to 2173.5 - 2190.5 kc/s, are limited to single sideband emissions A3H, A3A and A3J. The higher of the two channels is also used with class A2H emission by coast stations for selective calling.
	Compare Compare J Compare I		F the same G the reverse G the lower of the two channels is used by coast stations for selective calling, the higher for ship stations calling and working to coast stations.
RFA, USA	NOC	1326	
F, two proposals combined		1326A and B	Before transmitting on 2182 kc/s, a station in the mobile service should listen on this frequency for a reasonable period to make sure that no distress traffic is being sent (see number 1007). This provision does, however, not apply to stations in distress.
USA	NOC	1327	
USA	NOC	1328	
USA	NOC	1329	
USA	NOC	1330	
USA	NOC	1331	
USA	NOC	1332	
USA	NOC	1333	

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			Document No. DT/45-E Page 3
POL	MOD	1334	(3) In addition all ship stations should keep the maximum watch practicable on 2182 kc/s for receiving by any appropriate means the radiotele- phone alarm signal described in No. 1465, as well as distress, urgency and safety signals including the signals of emergency position- indicating radio beacons described in Article 36, Section VIIIA.
POL	SUP	1335	USA NOC
F J	MOD Compare 1330AA, I	1336 1325.1 1329A, 442	Par.8 (1) Coast stations which use 2182 kc/s for calling shall be able to use at least one other frequency in the authorized bands between 1605 and 2850 kc/s. This other frequency shall be capable of being used with class A3H ¹ for the transmission of messages concerning safety of shipping announced on 2182 kc/s. These stations should be able to use the frequency 2192 kc/s for simplex operation, if required by
USA	NOC		their service. The frequency 2171.5 kc/s may be used as an additional frequency.
Chairman		1336.1	(1) Before the conversion date for coast stations either A3 or A3H may be used.
HOL	ADD	1336A	See Document No. 183.
	MOD Compare	1337 984	(2) Coast stations open to the public corres- pondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable
J etc.			of transmitting class A3 ¹ or A3H emissions with carrier frequency on 2182 kc/s, and receiving class A3 and A3H emissions with carrier frequency on 2182 kc/s.
Chairman	ADD	1337.1	(1) Coast stations are authorized to transmit on A3 only to the conversion date for coast stations.
USA	NOC	1338	
USA	NOC	13 3 9	

Document No. DT/45-E Page 4

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USA	ADD	1339A	The peak envelope power supplied to the antenna transmission line by transmitters operating on carrier frequencies 2170 and 2190.5 kc/s shall not exceed 400 W (Pp).
	ADD	1339AI	See G/79(99), DT 2, page 340.
	ADD	1339AA	See I/31(2), DT 2, page 340.
			F (Timetable for transition to SSB, later Z (Technical specifications for SSB, later.
ΠSA	NOC	1340	

USA

• *

GENEVA, 1967

Document No. DT/46-E 5 October 1967 Original : French

WORKING PARTY 5B

DRAFT

THIRD REPORT OF WORKING GROUP 5B

TO COMMITTEE 5

Article 35

<u>No. 1358A</u>

The proposal for insertion of a new number 1358A in the Radio Regulations was withdrawn.

Appendix 3

The Working Group decided to amend Appendix 3 to the Radio Regulations with respect to the frequency tolerances for radiotelephone stations in the maritime mobile service in the bands between 4000 and 23 000 kc/s. The amendments are given in Annex I.

Appendix 17A

The Working Group approved the text of paragraphs 2, 3 and 4 appearing in Annex II. When a decision has been reached on the required bandwidth the relevant text will be added to this Appendix.

J. BES

Chairman

Annexes : 2



Document No. DT/46-E Page 2

ANNEX I

APPENDIX 3

Banc	l : from 4 to 29.7 Mc/s		
• •			
2.	Land stations :		
	a) coast stations :		
	- power 500 W or less	50	50 h)
	- power above 500 W and 5 kW or less	50*	30* h)
	- power above 5 kW	50	15 h)
	, , , , , , , , , , , , , , , , , , , 		
7			
3.	Mobile stations :		
	a) ship stations		
	2. emissions other than class Al		
	- power 50 W or less	50 c)	50 c) i)
	- power above 50 W	50	50 i)
• • • •			• • • • • • • • • •
	Footnotes to the table of frequenc	y tolerances	
● ● ₽ -0,			
	ADD h) For coast stati	on sincle side	-band radio-
		mitters instal	led after
	(/ 1 January 19	70_/ the toder	ance is av c/s.
	ADD i) For ship statio		· · ·

Document No. DT/46-E Page 3

ANNEX II

ADD Appendix 17A

2. Coast and ship stations shall use upper sideband emissions.

3. The unwanted frequency modulation of the carrier shall be sufficiently low to prevent harmful distortion.

4. The carrier frequency of transmitters shall be maintained within the following tolerances :

a) coast stations : ± 20 c/s.

b) ship stations : $\pm 100 \text{ c/s}$.

In the case of ship stations, the short-term limits (of the order of 15 minutes) shall be ± 40 c/s.

GENEVA, 1967

Document No. DT/47-E 5 October 1967 Original : English

WORKING GROUP 6C

DRAFT

THIRD REPORT OF WORKING GROUP 6C TO COMMITTEE 6 (OPERATION)

ADDITIONAL RADIO REGULATIONS IN PART

Having considered all the proposals submitted to it on the above provisions, Working Group 6C <u>unanimously adopted</u> the <u>status quo</u> or revision as shown in the Annex attached hereto.

F. WIEFELSPUTZ

Chairman

Annex : 1



Document No. DT/47-E Page 2

ANNEX

ADDITIONAL RADIO REGULATIONS

Article 10

1 mm lo			
(ex-DT/2 page 697)	MOD	2152	Mobile stations shall, if the sender so requests, serve as intermediaries for the routing of radiotelegrams; the number of intermediary mobile stations is, however, limited to two.
	NOC	2153- 2156	subject to adoption DT/48/
	MOD	2157	(3) The station assisting in the free retrans- mission in accordance with the provisions of Nos. 2155 and 2156 must enter the service abbreviation QSP (name of the mobile station) at the end of the preamble of the radiotelegram.
	NOC	2158	$\overline{\text{Subject to adoption DT/48}}$
			Article 11
	NOC	2159	$\sqrt{\text{subject to adoption DT}/48/}$
(ex DT /2 page 701)	MOD	2160	§2. When a radiotelegram received at a mobile station cannot be delivered, that station so in- forms the office or mobile station of origin by a service advice. In the case of a radiotelegram originating on land, this service advice is sent, whenever possible, to the land station through which the radiotelegram passed, or, if necessary, to another land station of the same country, or of a neighbouring country quoting the name or call sign of the station from which the radiotelegram was
			received, as far as existing conditions or special arrangements permit. Articles 12, 13 and 14
	NOC	2161- 2165	\sum subject to adoption DT/487

GENEVA, 1967

Document No. DT/48-E 5 October 1967 Original : English

WORKING GROUP 6C

SUPPLEMENTARY REPORT BY THE CHAIRMAN OF WORKING GROUP 6C LISTING THE AR, IN PART, TO WHICH NO PROPOSALS HAVE BEEN SUBMITTED TO THIS CONFERENCE

AR

Article 10	8	Nos. 2153 - 2156, 2158
Article ll	6 ·	No. 2159
Articles 12, 13, 14	e 0	Nos. 2161 - 2165

P. WIEFELSPUTZ Chairman



MARITIME CONFERENCE

GENEVA, 1967

1.

2.

Document No. DT/49-E 5 October 1967 Original : English

COMMITTEE 5

DRAFT

FIRST REPORT BY WORKING GROUP 5D TO COMMITTEE 5

At its first meeting, the Group considered, under its terms of reference (Document No. 170), all relevant proposals relating to Appendix 25 to the Radio Regulations (Geneva, 1959), as well as the possibility of establishing a new Frequency Allotment Plan for HF radiotelephone coast stations by the present Conference.

It was found that a majority of the delegations participating in the meeting of the Working Group were in favour of the principle of retaining the present Appendix 25 to the Radio Regulations.

2.1 There was general agreement as to the desirability of convening a future World Administrative Radio Conference to establish a new Frequency Allotment Plan for HF radiotelephone coast stations.

2.2 In addition, it was agreed that the present Conference should draw up provisions for the orderly use of the new radiotelephone channels made available by the present Conference.



At its second meeting the Working Group set up an ad hoc Group under the Chairmanship of Mr. P.V. Larsen (Denmark), with the following terms of reference :

> "1. To draft a procedure for the conversion from DSB to SSB operation in the HF maritime mobile radiotelephony bands, taking into account :

- a) the principle of retaining Appendix 25 to the Radio Regulations (Geneva, 1959); and
- b) the inclusion in this Appendix of all additional HF radiotelephone channels made available by this Conference.

2. To draft a recommendation concerning the convening, before a date to be suggested by the ad hoc Group, of a World Administrative Radio Conference to establish a Frequency Allotment Plan for the High Frequency radiotelephony bands, such a Conference to be preceded by a preparatory meeting of experts."

At its third meeting the Group <u>unanimously adopted</u> the texts of the draft Recommendation and Resolution annexed to this Report and recommended their approval by Committee 5.

The Working Group also recommended that Working Group 5B should consider the matter of power limitations referred to in paragraph 1 of the draft Resolution.

P.E. WILLEMS Chairman of Working Group 5D

3.

4.

5.

Document No. DT/49-E Page 3

ANNEX 1

DRAFT

RECOMMENDATION No.

RELATING TO THE PREPARATION OF A NEW FREQUENCY

ALLOTMENT PLAN FOR HF - RADIOTELEPHONE COAST STATIONS

The World Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service (Geneva, 1967),

considering

a) that the present Frequency Allotment Plan for coast radiotelephone stations contained in Appendix 25 to the Radio Regulations (Geneva, 1959), was initially prepared by the Provisional Frequency Board in the years from 1948 to 1950 and was subject to amendments by the Extraordinary Administrative Radio Conference, Geneva (1951), and by the Administrative Radio Conference, Geneva (1959);

b) that the Plan has already been implemented to a great extent, this being illustrated by the assignments, corresponding to allotments, recorded in the Master Register;

c) that a number of additional assignments has also been recorded in the Master Register;

d) that the introduction of SSB technique in the maritime HF radiotelephone bands has already started on the basis of the provisions of Appendix 17 to the Radio Regulations (Geneva, 1959), and that the conversion from DSB to SSB will continue, guided by the timetable and the supplementary technical specifications adopted by the present Conference;

e) that DSB operation in the frequency bands concerned will continue until for coast stations and for ship stations;

f) that the Conference has decided to create as from new HF - radiotelephone channels to be used in accordance with the provisions of Resolution No., to include such new channels in Appendix 17 and, without allotting them to countries, in Section III of Appendix 25;

g) that it was found impracticable for the present Conference to prepare a new Frequency Allotment Plan, but it was found necessary that such a Plan be prepared by a subsequent conference;

h) that it is expedient to have a preparatory meeting to lay down in advance of a planning conference the technical bases necessary for the preparation of a frequency allotment plan;

in view of

the provisions of Nos. 60 and 61 of the International Telecommunication Convention, Montreux (1965):

recommends

1.

- that a World Administrative Radio Conference be convened in order :
 - 1.1 to prepare on the basis of SSB operation a new Frequency
 Allotment Plan for HF radiotelephone coast stations, covering
 the channels in the present_Appendix 25 as well as the new
 channels referred to in f) above;

1.2 to amend the associated provisions of the Radio Regulations;

that such a conference be convened in 1973;

3. that the Administrative Council determine the exact date and place of such a conference, in accordance with No. 64 of the Convention;

4.

2.

that this conference be preceded by a preparatory meeting, in accordance with No. 73 of the Convention.

Document No. DT/49-F Page 6

ANNEX 2

DRAFT

RESOLUTION No.

RELATING TO THE USE OF THE NEW HF CHANNELS

MADE AVAILABLE TO MARITIME RADIOTELEPHONY

BY THE PRESENT CONFERENCE

The World Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service (Geneva, 1967),

considering

a) that the Conference has decided to create as from new HF radiotelephone channels to be included in Appendix 17 and, without alloting them to countries, in a new section (Section III) of Appendix 25;

b) that the Conference also decided to recommend that a world Administrative Radio Conference be convened in 1973 to prepare a new frequency allotment plan for HF radiotelephone coast stations, covering the channels in the present Appendix 25 as well as the new channels referred to in a) above;

c) that, however, interim measures have to be taken by administrations and by the I.F.R.B. in order to provide for an orderly use of the new channels between the date when they are made available to maritime radiotelephony and the date of entry into force of the new frequency allotment plan;

decides that

1. during the interim period referred to in c) above, the new channels should be used for SSB operation, and also for DSB operation where technically feasible, in accordance with the time table for conversion to SSB operation laid down by the present Conference; /the peak envelope power of the transmitters shall be limited to for coast stations and for ship stations;/

2. the I.F.R.B. shall collect from administrations requirements for use of these new channels;

urges administrations

3. to submit only those requirements considered essential for use during the interim period referred to in c) above, in view of the limited number of new channels available for maritime radiotelephony;

further decides that

4. after compilation of the requirements collected from administrations, the I.F.R.B., in consultation, where appropriate, with the administrations concerned, shall endeavour to distribute such requirements amongst the new channels, by dealing with them in the following order in each of the frequency bands covered by Appendix 25 :

- 4.1 requirements from those countries which have no allotments in the present Appendix 25, which have no assignments to HF radiotelephone coast stations recorded in the Master Register and which are in urgent need of frequencies for HF maritime radiotelephony;
- 4.2 requirements from those countries which have assignments to HF radiotelephone coast stations recorded in the Master Register, but which have a large volume of traffic to handle and whose assignments are causing or experiencing harmful inter-

5. the distribution of requirements amongst the new channels in accordance with paragraph 4 above shall be circulated to all administrations at least six months before the new channels are made available for maritime radiotelephony;

6. the channels distributed in accordance with paragraph 4 above shall be regarded as allotments to the countries concerned from the point of view of the frequency notification and registration procedure to be applied as from the date these become available;

7. as from that date, the relevant provisions of Nos. 541 to 551 of the Radio Regulations, insofar as they refer to Section I of Appendix 25, shall apply also to the frequency bands covered by the new channels (Section III of Appendix 25), for the examination by the I.F.R.B. of frequency assignment notices for transmission or reception by coast stations;

8. the dates to be entered in Column 2a or Column 2b of the Master Register according to the findings reached by the I.F.R.B. after the examination referred-to in paragraph 7 above, shall be in accordance-with the relevant provisions of Nos. 577 to 586 of the Radio Regulations;

9. the above procedure, which should be discontinued on the date of entry into force of the new frequency allotment plan to be prepared by the 1973 Radio Conference, is of an interim nature and shall not prejudge the decisions to be taken by the 1973 Radio Conference; a suitable remark to this effect shall be entered in the Master Register for the frequency assignments in the bands concerned.

GENEVA, 1967

Document No. DT/50-E(Rev.) 9 October 1967 Original : English

WORKING GROUP 6C

WORKING GROUP 6C

Tuesday, 10 October 1967, at 1500 hours

Article 8 AR

MOD	2130	(2) The coast station which carries out the redirection adds at the end of the preamble the service abbreviation QSP (name or call sign of the coast station to which the radiotelegram is redirected) which must be transmitted throughout the course of the radiotelegram.
MOD	2131	(3) If, within the limits of the requisite period of retention of radiotelegrams, the coast station which has redirected a radiotelegram to another coast station is subsequently in a position to transmit the radiotelegram direct to the mobile station of destination, it shall then transmit to the coast station to which the radiotelegram had been redirected a service advice informing the latter of the transmission of the said radiotelegram.
		Article 9 AR
MOD	2139	Delete: "If the transmitting station is a mobile station"
SUP	2143	
ADD	2144A	When a land station subsequently transmits a radio- telegram thus held to the mobile station which incompletely received it, it does so by inserting the service indication "ampliation" before the preamble.
MOD	2145	Amend last line to read: " the radiotelegram to this other land station, applying the relevant provisions of Article 8 of these Regulations to the radiotelegram".

REAL DI

GENEVA, 1967

Document No. DT/50-E 6 October 1967 Original : English

WORKING GROUP 6C

WORKING GROUP 6C

Friday, 6 October 1967, at 1500 hours

Agenda Item 3

2130

2131

MOD

Article 8 AR

MOD

(2) The coast station which carries out the redirection adds at the end of the preamble the service abbreviation QSP (name or call sign of the coast station to which the radiotelegram is redirected) which must be transmitted throughout the course of the radiotelegram.

(3) If, within the limits of the requisite period of retention of radiotelegrams, the coast station which has redirected a radiotelegram to another coast station is subsequently in a position to transmit the radiotelegram direct to the mobile station of destination, it shall then transmit to the coast station to which the radiotelegram had been redirected a service advice informing the latter of the transmission of the said radiotelegram.



GENEVA, 1967

Document No. DT/51-E 6 October 1967 <u>Original</u> : English, French, Spanish

COMMITTEE 4

APPENDIX 15A

The attached table contains the Appendix 15A prepared by the <u>ad hoc</u> Working Group and tentatively approved by the Committee in its thirteenth meeting.

Annex : 1

Document No. DT/51-E Page 2

ANNEX

Title :

APPENDIX 15A

FREQUENCIES ASSIGNABLE TO SHIP RADIOTELEGRAPH STATIONS USING THE MARITIME MOBILE SERVICE BANDS BETWEEN 4 AND 27.5 Mc/s

nnex to Document N	o. DT/51-E Page 3		kc/s			
Assignable fre-		Assignable wor-	Assignable		Assignable	working
quencies wide-band	Oceanographic	king frequencies	working	,		~
telegraphy,	data	for direct	frequencies	Calling	frequencies	
facsimile and	transmission	printing tele-	for high	frequencies	traffic	ships
special trans-	*	graphy and data	traffic ships	-		
mission system		systems	**		Group A	Group B
42.5 41	62.5 41	•	· · · · · · · · · · · · · · · · · · ·	4178 41	87	423
-				1. 5 4178.54186.5	· · · · · · · · · · · · · · · · · · ·	
5 frequencies	10 frequencies	12 frequencies	11 frequencies	17 frequencies	84 frequ	uencies
	_	-	-	spaced 0.5	space	
_					- Spares	
16.5 624	4.5 62	48		6267 628	0.5	(
218.56242.5	6244.96247.6	6248.56258	6258.756 266 .	25 6267.756279.75	6281.256312 6	6312.756343
7 frequencies	10 frequencies	20 frequencies	11 frequencies	17 frequencies	84 frequ	uencies
spaced 4	spaced 0.3	spaced 0.5	spaced 0.75	spaced 0.75	spaced	1 0.75
00 070	8 833	- -		07-07		
88 832				8356 83	•	{
2908326	8328.48331.1	83328341.5	83428355	8357.***.8373	83758416 8	84178458
10 frequencies	10 frequencies	20 frequencies	14 frequencies	17 frequencies	84 frequ	uencies
- 1	spaced 0.3		-	spaced 1	space	
	9.5 124		1	2554 1250	-	12680
·	12479.912482.6	- /		.5 µ2535.512559.5		-
12 frequencies		20 frequencies	, -	17 frequencies	-	
spaced 4	spaced 0.3	spaced 1	spaced 1.5	spaced 1.5	spaced	d 1.5
576 1663	6.5 166	40]	16712 1674	48	1691
657816634 1	16636.916639.6	1664116660	1666216710	1671416746	1675016832	16834
	10 frequencies	20 frequencies		17 frequencies	84 freat	
	-	*			•	
spaced 4	spaced 0.3	spaced 1	spaced 2	spaced 2	space	ea z
	0.5 221			2222.5 2226		22
211422158 ,	22160.922163.6	2216522184	2218722221	2222522265	2227022320	22322.522370
				17 frequencies		
spaced 4	spaced 0.3	spaced 1	spaced 2	spaced 2.5	space	
Spacea (spacea 0.9	Spaced I	Spaced 2	Spacea 2.9	. space	
				encies to ships of a	ll categories ****	
		Calling freq			rking frequencies	
25070 25073.5				25084	, , , , , , , , , , , , , , , , , , , ,	25106.5 25
See footnotes in	page 4	6 frequen	cies	16 fr	equencies	
		spaced 1	•5	spa	ced 1.5	

Footnotes :

*) The frequency bands may also be used by buoy stations for ocean data transmission and by stations interrogating these buoys, in accordance with the conditions set forth in Resolution No. ...

- **) Manual or automatic morse telegraphy at speeds not exceeding 40 bands.
- ***) For particular conditions concerning the use of 8364 kc/s, see No. 1179.
- ****) For use of this band, see No. 224.

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS

CONFERENCE MARITIME

GENÈVE, 1967

Document N° DT/52 - F/E/S 7 septembre 1967 Original : français/anglais/ espagnol

COMMISSION4COMMITTEE4COMISIÓN4

LA LISTE CI-JOINTE CONTIENT DES REFERENCES RENVOYANT AUX PROPOSITIONS CONCERNANT L'APPEL SELECTIF ET LES RADIOBALISES DE REPERAGE

THE ATTACHED LIST CONTAINS CROSS-REFERENCE TO PROPOSALS CONCERNING SELECTIVE CALLING AND POSITION-INDICATING RADIOBEACONS

EN LA LISTA ADJUNTA SE INDICAN LOS NÚMEROS DE REFERENCIA DE LAS PROPOSICIONES RELATIVAS A LA LLAMADA SELECTIVA Y LOS RADIOFAROS DE LOCALIZACIÓN



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1.	Sele	l sélec ctive c ada sel	alling	
	ADD	999F	G/91	(50)
	ADD	999F	G/113	(58)
	ADD	1235A	F/109	(96)
	ADD	1240A	F/109	(97)
			CAN/107	(35)

2.	Radiobalises de repérage
	Position-indicating radiobeacons
	Radiofaros de localización

ADD	999A	DNK/ISL/NOR/30	(1)
ADD	999A	F/14	(81)
ADD	999A	G/60	(21)
ADD .	999A	HOL/75	(23)
ADD	999AA	I/36	(27)
ADD	999A	J/89	(76)
ADD	999A.1	J/89	(77)
ADD	999A	NZL/135	(4)
ADD	999A	RFA/94	(21)
ADD	999A	USA/22	(51)
ADD	999B	DNK/ISL/NOR/30	(1)
ADD	999B	HOL/75	(23)
ADD	999AB	I/36	(27)
ADD	.999B	NZL/135	(4)
		-	

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	20	7	
	289	9	
	29	5	

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	203	3	
	202	2	
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	200	С	

201

				Document Nº DT/52-F/E/S Page 3
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				DT/2 page – página
AD	D 999B	USA/22	(51)	202
AD	D 999B	NZL/135	(4)	
AD	D 9999C.	DNK/ISL/NOR/30	(1)	199
AD	D 9990	HOL/75	(23)	200
AD	D 999AC	1/36	(27)	201
AD	D 9999C	NZL/135	(4)	
AD	D 999C	USA/22	(51)	202
AD	D 9990	NZL/135	(4)	
AD	D 999D	DNK/ISL/NOR/30	(1)	199
				•

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GENEVA, 1967

<u>Document No. DT/53-E</u> 6 October 1967. <u>Original</u> : English

WORKING GROUP 6C

DRAFT RESOLUTION

Relating to the Issue of a General Class of Radiocommunication Operator's Certificate for the Maritime Mobile Service

The text appearing in the Annex attached hereto is the text of the draft Resolution prepared by Working Group 6C ad hoc (Document No. DT/43) as amended in Working Group 6C up to the end of its Sixth Meeting on 6 October 1967.

Working Group 6C has agreed on the principles outlined in the draft Resolution subject to :

- editorial improvement of the text, and

- further consideration of the three annexes to the draft Resolution.

F. WIEFELSPUTZ Chairman



Annex : 1

Document No. DT/53-E Page 2

ANNEX

DRAFT RESOLUTION

Relating to the Issue of a General Class of Radiocommunication Operator's Certificate for the Maritime Mobile Service

The World Administrative Radio Conference, Geneva, 1967,

considering

<u>a</u>)

<u>b</u>)

<u>c</u>)

<u>d</u>)

that Article 23 of the Radio Regulations, Geneva, 1959, provides for two classes of certificate as well as a special certificate for radiotelegraph operators;

that many radiotelegraph operators are the holders of the second class certificates;

that it is doubtful if the higher morse speed qualification of the first class certificate would be necessary in the future;

that there is a future need for a greater emphasis on the practical maintenance of radio equipment in service;

is of the opinion

1.

2.

1.

that administrations should consider the desirability of replacing the present two classes of certificate with a general class of certificate for radiotelegraph operators more closely related to future needs;

that in considering the issue of such a certificate administrations take into account the desirability of modified certificate qualification as appended hereto in Annexes 1, 2 and 3; and in connection therewith

resolves

/ex.DT/43 page 2 resolves/

that administrations which wish to issue a general class of certificate are authorized to do so,

/ex.DT/43 2. that, for the purposes of the Radio Regulations, such page 2 general class of certificate shall be recognized as an resolves/ alternative to present first and second class certificates, 3. that countries employing operators of a foreign nationality may decide upon the status of the general radiocommunication /new/ operator's certificate in so far as employment in their own ships is concerned, /ex.DT/43 4. that the certificate shall maintain at least the practical page 2 technical standards of present first and second class certificates resolves/ in all respects, /ex.DT/43 5. that the morse code speed shall not be less than in No. 884 page 2 of the Radio Regulations. resolves/

Annexes : 3

Annex 1

Conditions for the issue of the radiocommunication operator's general

<u>certificate - Maritime</u>

1. The radiocommunication general certificate is issued to candidates who have given proof of the technical and professional knowledge and qualifications enumerated below.

2. Knowledge of the principles of electricity, the theory of radio and marine aerial systems, sufficient to meet the requirements of paragraphs 3, 4 and 5 below.

3. Theoretical knowledge of marine radiotelegraph and radiotelephone transmitters and receivers; automatic alarm devices; radio equipment for lifeboats and other survival craft; direction-finding equipment; together with all auxiliary items, including power supply auxiliaries (such as motors, alternators, generators, inverters, rectifiers, and accumulators) with particular reference to maintaining the equipment in service.

4. Practical knowledge of the operation, adjustment and maintenance of the apparatus mentioned in paragraph 3) above, including the taking of direction-finding bearings and the calibration of radio direction-finding apparatus.

5. Practical knowledge necessary for the location and remedying (with the means available on board) of faults which may occur during a voyage, in the apparatus mentioned in paragraph 3) above.

6. Ability to send correctly by hand and to receive correctly by ear, in the Morse Code, code groups (mixed letters, figures and punctuation marks), at a speed of sixteen groups a minute, and a plain language text at the speed of twenty words a minute. Each code group shall comprise five characters, each figure or punctuation mark counting as two characters. The average word of the text in plain language shall contain five characters. The duration of each test of sending and receiving shall be, as a rule, five minutes.

7. Ability to send correctly and to receive correctly by telephone.

8. Knowledge of the Regulations applying to radiocommunications, knowledge of the documents relating to charges for radiocommunications, knowledge of the provisions of the Convention for the Safety of Life at Sea which relate to radio.

9. A sufficient knowledge of world geography, especially the principal shipping and air routes and the most important telecommunication routes.

10. Knowledge of one of the working languages of the Union. Candidates should be able to express themselves satisfactorily in that language, both orally and in writing. Each administration shall decide for itself the language or languages required.

Annex 2

Qualifying service

1. An operator holding a radiocommunication operator's general certificate is authorized to embark as chief operator of a ship station of the fourth category (see No. 932 of the Radio Regulations).

2. Before becoming chief operator of a ship station of the second or third category (see Nos. 931 and 931A of the Radio Regulations) an operator shall hold a radiocommunication operators general certificate and shall have had at least six months experience as operator on board ship or in a coast station.

3. Before becoming chief operator of a ship station of the first category (see No. 930 of the Radio Regulations) an operator shall hold a radiocommunication operator's general certificate, and shall have had at least two years experience as operator on board ship or in a coast station.

Annex 3

Class and minimum number of operators for ship stations

1. In the public correspondence service, each government shall take the necessary steps to ensure that ship stations of its own nationality have personnel adequate to perform efficient service.

2. The personnel of these ship stations shall, having regard to the provisions of Article 23 and Section IV of Article 25 of the Radio Regulations include at least :

3. Ship stations of the first category; a chief operator holding a radiocommunication operators general certificate.

4. Ship stations of the second and third categories; one operator holding a radiocommunication operator's general certificate.

5. Ship stations of the fourth category, except in the case provided for in paragraphs 6) and 7) below; one operator holding a radiocommunication operator's general certificate.

6. Ship stations in which a radiotelegraph installation is provided but not prescribed by international agreements; one operator holding a radiocommunication operator's general certificate or a radiotelegraph operator's special certificate as provided for in Nos. 889 to 893 of the Radio Regulations.

7. Ship station equipped with radiotelephone installations only; one operator holding a radiocommunication operator's general certificate or a radiotelephone operator's certificate as provided for in No. 918 of the Radio Regulations.

GENEVA, 1967

Document No. DT/54-E 6 October 1967 Original : English/French/ Spanish

WORKING GROUP 5A

TENTATIVE ADVANCE DRAFT OF TEXTS. FOR WORKING GROUP 5A

MOD USA NOC (see 863 (Rev.) and 903 (Rev.))	1341	(2) The power of mobile radiotelephone stations operating in the authorized bands between 1605 and 2850 kc/s shall not exceed the following :
G, I	•	100 Watts (P_c) for class A3 /and A3H/ emissions.
I. F, G, HOL POL	:	300 Watts 400 Watts (P _p) for classes 500 Watts A3A, A3H and A3J emissions
MOD USA NOC (see 863 (Rev.) and 903 (Rev.))	1342	(3) The power of coast radiotelephone stations, operating in the authorized bands between 1605 and 3800 kc/s, shall be limited to :
		- Coast stations located north of latitude 32°N
G, I		2 kilowatts (P _c) for class A3 /and A3H/ emission
F, G, HOL, I, POL		$8 \overline{/6}$, $10\overline{/}$ kilowatts (P _p) for classes A3A, A3H and A3J emissions
		- Coast stations located south of latitude 32°N :
G, I		3.5 kilowatts (P_c) for class A3 /and A3H/ emission.
F, G, HOL, I, POL		14 $/10.5$, 15/ kilowatts (P _p) for classes A3A, A3H and A3J emissions ACHIVES
USA NOC	1343	GENÈVE

Document No. DT/54-E Page 2

F,G	MOD	1344	 a) The following ship-shore working frequencies, if required by their service : 2046 kc/s (), 2049 (2049.3/ kc/s ()) 2046 2170.8 kc/s ()/ for A3A and A3J emissions; 2049 kc/s () for A3 and A3H emissions
			until the end of the transition period only.
G	ADD	1344A	/b) The ship-shore working frequency 2191 kc/s () for A3A and A3J emissions./
	MOD	1345	c) The following intership frequencies, if
F, G			required by their service : 2053 kc/s () and 2056 /2056.3/ kc/s for A3A and A3J emissions; 2056 kc/s () for A3 and A3H emissions until the end of the transition period only. These frequencies may be used as additional ship-shore frequencies.
USA	NOC	1346	
USA	NOC	1347	
USA	NOC	1348	
USA	NOC	1349	
F, G, HOL, I, J, USA	MOD	1350	(2) During the periods mentioned above, except for the transmissions provided for in Article 36, transmission shall cease within the band <u>2173.5 - 2190.5 kc/s</u> .
JUDA			
f,j USA USA	MOD	1351	13. All stations on ships making international voyages should be able to use the intership frequency 2638 kc/s () $/and$, with A3A or A3J emissions only, the intership frequencies 2170 kc/s () and 2190.5 kc/s ()/ if required by their service.

Pocument No. DI/54-E Page 3

•		•	Article 5
	MOD	200	No. 200 has been deleted by Committee 4.
B	CAN		
J .	MOD	Table	2170 - <u>2173.5</u> maritime mobile
			<u>2173.5</u> - <u>2190.5</u> mobile (distress and calling) 201
			<u>2190.5</u> - 2194 <u>maritime mobile</u>
USA	MOD	201	The frequency 2182 kc/s is the international distress and calling frequency for radio- telephony. The conditions for the use of the band 2170 - 2194 kc/s are prescribed in Article 35.
		•	Article 33
F	MOD	1226	a) As far as possible, a working frequency, particularly in areas where the traffic density is high.
р ¹	MOD	1227	b) The carrier frequency 2182 kc/s wherever it is not possible to use a working frequency.
म	MOD	1228 1230 1232 1234 1235 1242 1247 1254	Replace, wherever necessary, "the frequency 2182 kc/s" with "the carrier frequency 2182 kc/s"
		1290	(This has already been covered in a general request from Committee 5 to Committee 7.)
I.	ADD	1227AA	(c) The frequency 2190.5 kc/s () with single sideband emissions and peak envelope power not exceeding 400 watts.
F	MOD	1233	(5) Subject to the provisions of No. 1235A, coast stations shall, in accordance with carrier frequency 2182 kc/s.

Document No. DT/54-E Page 4

F	ADD	1235A	(8) Coast stations shall call ships equipped to receive selective call signals by sending class A2H emissions on 2191.3 kc/s (). After transmission of the ship call number, they shall transmit an identification number to inform the ship of the name of the calling coast station (Nos. 788F and 1318E to K).
Í	ADD	1233A	(5 bis) When using selective calling coast stations shall use the frequency 2170 kc/s () with A3A or A3J emission.
G	ADD	1242A	When a ship is called by selective calling on 2170.5 kc/s () it shall reply on 2191 kc/s ().
G	ADD	1248a	c) On a working frequency to calls made on the frequency 2191 kc/s ().
F, AUS	MOD	1251	Should be referred to Working Group 5B.

GENEVA, 1967

Document No. DT/55-E 9 October 1967 Original : English

COMMITTEE 5

LIMITATION OF OUT-OF-BAND SPECTRUM OF A SINGLE SIDEBAND RADIOTELEPHONE EMISSION

(APPENDIX 17A)

When using single sideband A3H, A3A or A3J emission the power of any emission supplied to the antenna transmission line of a station on a discrete frequency shall, when the transmitter is driven to full peak envelope power, be less than the peak envelope power in accordance with the following table :

Frequency separation Δ kc/s from the assigned frequency	Minimum attenuation below peak envelope power
$1.6 < \Delta \leq 4.8$	28 db
$4.8 < \Delta \leq 8.0$	38 db
8.0 < Δ	43 db, without exceeding the power of 50 milliwatts

Transmitters when using suppressed carrier or reduced carrier emission may be tested for compliance with this regulation by means of a two-tone audio input signal with sufficient frequency separation between tones such that all intermodulation products occur at frequencies at least 1.6 kc/s removed from the assigned frequency.



GENEVA, 1967

Document No. DT/56-E 6 October 1967 Original : English

WORKING GROUP 5A

DRAFT

FOURTH REPORT OF WORKING GROUP 5A

TO COMMITTEE 5

Article 35

Nos.1322B and 1323

The Working Group adopted the new text which appears in the Annex.

No. 1324

The Working Group decided that this number would remain unchanged.

Nos.1325 and 1326

The Working Group adopted the text which appears in the Annex.

Nos. 1327 - 1333

The Working Group decided that these numbers would remain unchanged.

Nos. 1326A, 1326B, 1334 and 1335

The Working Group considered that before taking any decision with respect to these numbers, Committee 6 should be asked to give its opinion on the proposals in question.

Proposals concerning No. 1325.1, 1329A and 1330AA

The Working Group adopted the first part of the proposed text for this paragraph which reads as follows:

> "Transmissions in the bands [2170 - 2173.5 kc/s and 2190.5 - 2194 kc/s] respectively on carrier frequency [...] kc/s (assigned frequency [...] kc/s) and carrier frequency [...] kc/s (assigned frequency [...] kc/s) are limited to emissions of classes A3A and A3J. [The band 2170 - 2173.5 kc/s may also be used with class A2H emissions by coast stations



for selective calling 7. / The band 2190.5 - 2194 kc/s may also be used by ship stations for calling coast stations./"

.

It was also decided to request Committee 7 to insert the words "carrier frequency" before "2182 kc/s" in the text of numbers 1324, 1327, 1331 and 1332.

P. AAKERLIND

Chairman

Annex: 1

Document No. DT/56-E Page 3

ANNEX

Article 35

.

ADD

MOD

1322B

1323

§3. Apparatus in radiotelephone stations of the maritime mobile service installed for operation on frequencies in the authorized bands between 1605 and 4000 kc/s and in the authorized bands between 4000 and 23 000 kc/s shall satisfy the technical and operational conditions specified in / Appendix 17A_7.

\$3.(1) The frequency 2182 kc/s¹ is the international distress frequency for radiotelephony; it shall be used for this purpose by ships, aircraft, survival craft stations and by floatable emergency positionindicating radio beacons using frequencies in the authorized bands between 1605 and 4000 kc/s when requesting assistance from the maritime services. Itis used for the distress call and distress traffic, for signals of floatable emergency position-indicating radio beacons, for the urgency signal and urgency messages and for the safety signal, safety messages shall be transmitted where practicable, on a working frequency after a preliminary announcement on 2182 kc/s. The class of emission to be used for the frequency 2182 kc/s shall be A3 or A3H (see No. 984).

ADD 1323.1 NOC 1324 MOD 1325

(1) Whatever the class of emission used, the value indicated, 2182 kc/s, always designates the carrier frequency of the emission.

(3) Except for transmissions authorized on carrier frequency 2182 kc/s, all transmissions on the frequencies between 2173.5 and 2190.5 kc/s are forbidden¹.

	MOD	1326	(4) Any coast station using carrier frequency 2182 kc/s shall be able to transmit the radiotelephone alarm signal described in No. 1465 (see also Nos. 1471, 1472 and 1473).
	NOC	1327	
,	NOC	1328	
	NOC	1329	
	NOC	1330	
	NOC	1331	
-	NOC	<u>[c]</u>	Watch
	NOC	1332	
	NOC\$	1333	

GENEVA, 1967

<u>Document No. DT/57-E</u> 9 October 1967 <u>Original</u> : English

COMMITTEE 4

REPORT OF COMMITTEE 4 AD HOC I.O.C./W.M.O.

The <u>ad hoc</u> Committee, consisting of delegates of the United Kingdom, U.S.S.R., France and the United States of America, assisted by members of the I.F.R.B., held three meetings and approved unanimously the two draft Resolutions attached hereto.

The first Resolution defines the role of I.0.C./W.M.0. in coordinating the use of the frequencies allocated for oceanographic data transmissions.

The second Resolution instructs the I.F.R.B. with respect to notifications and registrations pertaining to oceanographic stations.

S.M. MYERS Chairman

 $\underline{\text{Annexe}}$: 2



Document No. DI/57-E Page 2

ANNEX 1

DRAFT RESOLUTION No.

Relating to the establishment of a coordinated world-wide system for the collection of data relating to oceanography

The World Administrative Radio Conference, Geneva, 1967,

considering

<u>a</u>)

<u>b</u>)

<u>c</u>)

<u>d</u>)

<u>e</u>)

f).

<u>g</u>)

the expressed desire for the establishment of a coordinated world-wide system for the collection of data relating to oceanography;

that a frequency band has been designated in each of the six high frequency bands allocated exclusively to the maritime mobile service for use in the collection of data relating to oceanography in accordance with <u>Appendix 15A revised</u>;

that use of these frequencies with maximum effectiveness is dependent upon cooperation and coordination among administrations;

that certain administrations expressed the desire that a coordinated world-wide system for the transmission of data relating to oceanography be established on the basis of a coordinated plan in the bands allocated by this Conference;

that, however, certain other administrations wish to use in the near future stations for the collection of data relating to oceanography within the framework of decisions taken on this matter by the present Conference;

that, consequently, a coordinated programme for the collection of data relating to oceanography should be established using the frequency bands referred to in \underline{b}) above; and

that the Intergovernmental Oceanographic Commission (I.O.C.) and the World Meteorological Organization (W.M.O.) have been in consultation since 1962 with respect to cooperative efforts in the collection of data relating to oceanography (e.g. the W.M.O./I.O.C. Panel of Experts on Coordination of Requirements, Geneva, 19-21 July 1967);

Annex 1 to Document No. DT/57-E

Page 3

resolves

that the I.O.C. and W.M.O. be invited to develop jointly, in consultation with the I.F.R.B., and in consultation with I.T.U. administrations as appropriate, a coordinated plan designed to meet existing and future requirements of all interested I.T.U. Member countries, for use by stations in the collection of data relating to oceanography in a world-wide system, within the framework of provisions made by the W.A.R.C. for such a system,

this plan to include the geographical distribution of oceanographic stations, their system of operation, the deployment of frequencies in the system and the manner in which oceanographic information is to be transmitted;

that administrations be encouraged to assign frequencies in conformity with the plan and the recommendations of I.O.C. and W.M.O., for the portion of the world-wide system over which they have jurisdiction;

that the I.O.C. and W.M.O. be invited further to assume jointly the responsibility, in consultation with the I.F.R.B., for keeping such a plan current, in the light of changing requirements for data relating to oceanography; and

that the plan developed under points 1 and 3 above shall be considered at the next Administrative Radio Conference competent to deal with matters relative to the maritime mobile service, to determine what, if any, changes appear necessary to improve its effectiveness.

1.

3.

4.

2.

Document No. DT/57-E Page 4

ANNEX 2

DRAFT RESOLUTION No. ...

Relating to the manner in which the I.F.R.B. shall treat notifications dealing with frequency assignments to oceanographic stations

The World Administrative Radio Conference, Geneva, 1967,

considering

<u>a</u>)

b)

that the Conference had adopted Resolution No. ..., relating to the establishment of a coordinated world-wide system for the collection of data relating to oceanography; and

that the I.F.R.B. would require instructions relative to the notification and registration of assignments to oceanographic stations;

resolves

that the I.F.R.B. be instructed to accept for registration only such notifications, submitted by administrations in accordance with Nos. 486 and 487, as pertain to transmitting and receiving oceanographic stations which are land based and which are in conformity with Resolution No. ..., referred to in a) above. Such notifications shall be treated by the Board in accordance with No. 505 of the Regulations. These entries in the M.I.F.R. shall not prejudice any decisions to be taken by the next Administrative Radio Conference competent to deal with the maritime mobile service.

GENEVA, 1967

1.

Document No. DT/58-E 10 October 1967 Original : French/English

WORKING GROUP 6A

DRAFT

FIFTH REPORT OF WORKING GROUP 6A TO COMMITTEE 6 (OPERATION)

General Radiotelephone Procedure in the Maritime Mobile Service (Article 33)

Calls by Radiotelephony (Article 34, in part)

Working Group 6A unanimously agreed to recommend the adoption of the provisions appearing in the Annex attached hereto.

2. International Code of Signals

In recommending ADD 1216A, the Working Group specifically did not include reference to the International Code of Signals since it was of the opinion that the appropriate place for such mention would be in Article 36. In this respect the attention of <u>Working Group 6B</u> is invited to a proposal to this effect appearing on page 399 of Document No. DT/2, ADD 1433A.

A. CHASSIGNOL

Chairman

Annex: 1



Document No. DT/58-E Page 2

WT 37 79 97				
N A R X	Y	E	M	ΤT

			ANNEX
	Article 3	3	
	NOC	1209	
	SUP	1210	
	NOC	1211 - 1214	
(ex DT/2 p. 283)	MOD	1215	(2) Radiotelephone stations of the maritime mobile service which participate in communica- tions between ship stations and subscribers of the land telephone system, should as far as possible, avoid manual methods of switching from transmission to reception and vice versa.
	ADD	1215A	\int Held in abeyance pending App.17A, page 2847
	(MOD)	1216	5.(1) add sub-paragraph number 7
(ex DT/2 p. 283)	ADD	1216A	(2) To facilitate radiocommunications the service abbreviations given in Appendix 13A may be used.
(ex DT/2 p. 283)	ADD	1216B	(3) When it is necessary to spell out certain expressions, difficult words, service abbre- viations, figures, etc., the phonetic spelling tables in Appendix 16 shall be used.
	NOC	1217 - 1218	
(ex DT/2 p. 283)	MOD	1219	(a) The mobile station whose emission causes interference to the correspondence of a mobile station with a coast station shall cease sending at the first request of the coast station.
	NOC	1220 - 1221	
(ex DT/2 p. 289)	MOD	1222	\$7.(1) The call consists of :
			- the call sign or other identification of the station called, not more than three times:
			 the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);

(ex DT/2 p. 289) (contd)			- the call sign or other identification of the calling station, not more than three times.
	NOC	1223	
• •	MOD	1224	\int G/91 (52) page 292 held in abeyance_7
(ex DT/2)			
p. 291)	ADD		Internal radio communication on ships
· · ·	DD	1224 A	$rac{S}{S}$ 7 (bis) (1) Calls for internal communica- tions on board ship shall consist of :
(ex DT/2 p. 291)	ADD	1224B	a) From the control station :
F			- the name of the ship followed by a single letter (ALFA, BRAVO, CHARLIE, etc. indicating the substation (see No. 777B))not more than three times;
			- the words "THIS IS";
			- the name of the ship followed by the word "CONTROL";
(ex DT/2 p. 291)	ADD	1224C	b) From the substation :
			- the name of the ship followed by the word "CONTROL" not more than three times;
			- the words "THIS IS";
			- the name of the ship followed by a single letter (ALFA, BRAVO, CHARLIE, etc. indicating the sub- station - see No. 777B).
• •	NOC	1225	
	NOC	1226	
	MOD	1227	b) a working frequency, observed by the coast station, as shown in the List of Coast Stations.

			·
	ADD	122 7AA	\int I/31 (1) page 292, held in abeyance \int
	(MOD)	1228	(2) A radiotelephone ship station calling a coast station of another nationality should, as a general rule, use the carrier frequency 2 182 kc/s. However, where so agreed by administrations, the ship station may use a working frequency on which watch is kept by that coast station.
	NOC	1229	
	(MOD)	1230	a) the carrier frequency 2 182 kc/s;
	NCC	1231	
	(MOD)	1232	(4) An aircraft station calling a coast station or a ship station may use the carrier frequency 2 182 kc/s
	MOD	1233	\int "carrier" added and held in abeyance_7
4	DTA	1233AA	$\int I/3l/l$ page 292, held in abeyance \int
	(MOD)	1234	["carrier" added and held in abeyance]
	(MOD)	1235	["carrier" added and held in abeyance_7
	ADD	1235A	<pre>[F/109 (96) page 289, held in abeyance_7</pre>
	MOD	1236	Held in abeyance, page 292 plus proposals AUS/122 (42), NZL/133 (13) and B/138 (52)_7
	NOC	1237 - 1238	
2)	MOD	1239	\$10.(1) In the bands between 156 Mc/s and 174 Mc/s used for the maritime mobile services, coast and ship stations should, as a general rule, call on 156.80 Mc/s. However, calling may be conducted on a working channel or on a two-frequency calling channel, which has been implemented in accordance with No. 1361.
	NOC	1240	
	ADD	1240A	$\sum F/109$ (97) page 295, held in abeyance 7

(ex DT/2 p. 295)

			Annex to Document No. DT/58-E Page 5
(ex DT/2 p. 295)	MOD	1241	Sil. The reply to calls consists of :
₽• <i>29)</i> }			- the call sign or other identification of the calling station, not more than three times;
			- the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);
			- the call sign or other identification of the station called, not more than three times.
(ex DT/2 p. 299)	(MOD)	1242	\$12. (1) When a ship station is called on the carrier frequency 2 182 kc/s it should reply on the same frequency unless another frequency is indicated by the calling station.
	ADD	1242 A	\int G/113 (59) page 301, held in abeyance \int
	NOC	1243	
	ADD	1243A	$\sum F/109$ (98) page 299, held in abeyance \sum
(ex DT/2 p.299)	MOD	1244	(3) When calling a coast station or another ship station, a ship station shall indicate the frequency on which a reply is required if this frequency is not the normal one associated with the frequency used for the call.
	ADD	1244A	<pre>/ F/111 (152), page 299, held for further study_/</pre>
	NOC	1245 - 1246	
	(MOD)	1247	a) on the carrier frequency 2 182 kc/s tolcalls made on the carrier fre- quency 2 182 kc/s unless another frequency is indicated by the
	NOC	1248	calling station;
	ADD	1248A	$\int G/79$)98) page 301, held in abeyance 7
	MOD	1249	<pre>[F/8 (26), G/77 (41), J/84 (15), AUS/122 (43), B/138 (53), pages 299-301, held in abeyance</pre>
	MOD	1250	$\int G/77$ (41) page 301, held in abeyance 7
	MOD	1251	<pre>_ F/8 (27) page 300, AUS/122 (44) held in abeyance_/</pre>
	NOC	1252	

GENEVA, 1967

Document No. DT/59-E 9 October 1967 Original : English

COMMITTEE 4

REVISION OF ARTICLE 32 Nos. 1145, 1146 AND 1148 TO 1202

The conclusions of the Ad-hoc Working Group are attached as Annex.

F. THORNE Chairman Ad-hoc Working Group

<u>Annex</u> : 1



Document No. DT/59-E Page 2

ANNEX

Section V.

Bands between 4 000 and 27 500 kc/s

A. General provisions

§ 17. (1) Mobile radiotelegraph stations equipped to operate in the bands specified in Nos. 1174, 1192 and 1196 shall employ only class Al emission. In the bands specified in No. 1192, stations may use manual or automatic Al Morse telegraphy at speeds not exceeding 40 bands. Survival craft stations may use class A2 or A2H emissions in these bands (see Nos. 994 and 997).

(2) Mobile stations equipped to operate in the frequency bands authorized to ships for wide-band telegraphy, facsimile and special transmission systems may use any class of emissions provided that such emissions can be contained within the wide-band channels indicated in \angle Appendix 15A \angle . However, manual Morse and telephony are excluded, except for circuit alignment purposes.

(4) Coast radiotelegraph stations employing single channel class Al or Fl emission operating in the maritime mobile exclusive bands between 4 000 and 27 500 kc/s shall at no time use mean power in excess of the following :

Band	<u>Maximum</u> m	lean power
4 Mc/s	5	kW
6 Mc/s	5	kW
8 Mc/s	10	kW
12 Mc/s	15	kW
16 M c/ s	15	kW
22 Mc/s	15	kW

NOC

NOC

MOD

MOD

1145

1146

MOD 1148

1148A (5) Coast radiotelegraph stations employing multi-ADD channel telegraph emissions operating in the maritime mobile exclusive bands between 4 000 and 27 500 kc/s shall at no time use a mean power in excess of 2.5 kW per 500 c/s bandwidth. 1149 § 18. (1) Each of the bands reserved for ship radiotelegraph stations, except for the band 25 070-25 110 kc/s, shall be divided into six parts, beginning at the low frequency end : 1150 a) a band of working frequencies for ship stations using wide-band telegraphy, facsimile and special transmission systems : aa) a band of working frequencies for 1150A oceanographic data transmissions; 1150B ab) a band of working frequencies for ship stations using narrow-band directprinting telegraph and data systems; NOC 1151 NOC 1152 NOC 1153 MOD 1154 (2) The bands 25 070-25 082.5 kc/s and 25 082.5-25 110 kc/s are allocated, respectively, for calling and working by ship radiotelegraph stations employing Al or Fl emissions on ships of all categories. (See No. 224.) SUP 1155 1156 $\frac{1}{2}$ 20. (1) Stations installed on ships shall, at the MOD discretion of the administration controlling the ship station concerned, use either the high traffic band (see No. 1151) or the low traffic band (see No. 1153), depending on their traffic requirements. SUP 1157

1158 (3) The arrangement of the frequencies in the ship radiotelegraph bands is illustrated graphically in $\underline{/Appendix 15A^{7}}$.

§ 21. For the exchange of radiotelegraph communications with stations of the maritime mobile service, aircraft stations may utilize the frequencies of the bands allocated to that service for radiotelegraphy between 4 000 and 27 500 kc/s. When using these frequencies, aircraft stations shall comply with the provisions of this section.

NOC 1160-1172

1173

1159

(3) Working frequencies assigned to coast stations using the bands between 4 000 and 27 500 kc/s are included within the following band limits :

> 4 231.5 to 4 361.5 kc/s 6 344 to 6 512 kc/s 8 460 to 8 729 kc/s 12 689.5 to 13 105.5 kc/s 16 917.5 to 17 255.5 kc/s 22 372 to 22 622 kc/s (see No. 453.1)

D. Assignment of Frequencies to Mobile Stations

1. Calling Frequencies of Ship Stations

1174

§ 29. (1) The calling frequencies assigned to ship stations are included within the following band limits :

4 178	to	.4	187	kc/s	
6 267	to	6	280.5	kc/s	
8 356	to	8	-374	kc/s	
12 534	to	12	561	kċ/s	
16 712	to	16	748	kc/s	
22 222.3	to	25	267.5	kc/s	
25 070	to	25	082.5	kc/s	

1175

(2) In the band 4 178 to 4 187 kc/s, the calling frequencies are spaced 0.5 kc/s apart. The extreme frequencies assignable are 4 178.5 and 4 186.5 kc/s as indicated in $\underline{/}$ Appendix 15A7.

1176

(3) In each of the other maritime mobile service bands between 4 000 and 18 000 kc/s, the calling frequencies shall be in harmonic relationship with those in the band 4 178 to 4 187 kc/s.

In the bands 22 222.5 to 22 267.5 and 25 070 to 25 082.5 kc/s the spacing of calling frequencies is 2.5 kc/s and 1.5 kc/s respectively.

MOD

1177

1178

1179

1180

1180A

§ 30. The administration to which a ship station is subject shall assign to it a series of calling frequencies including one frequency in each of the bands in which the station is equipped to transmit. Administrations may, however, assign a supplementary series of calling frequencies for use in the event of interference. In the bands between 4 000 and 18 000 kc/s, the calling bands.

The same system of uniform distribution shall be applied in the assignment of calling frequencies in the bands 22 222.5 to 22 267.5 kc/s and 25 070 to 25 082.5 kc/s.

§ 31. (1) One calling frequency in each of the calling bands indicated in No. 1174 shall be reserved as far as possible for the use of aircraft desiring to communicate with stations of the maritime mobile service. These frequencies are the following : 4 182; 6 273; 8 364; 12 546; 16 728 and 22 245 kc/s.

2. Working Frequencies of Mobile Stations

a) Channel Soacing and Assignment of Frequencies

MOD

ADD

MOD

NOC

 $\frac{s}{s}$ 32. In all bands the working frequencies for ship stations equipped to use wide-band telegraphy, facsimile and special transmission systems are spaced 4 kc/s apart. The frequencies assignable are shown in /Appendix 15A/.

 $\frac{1}{8}$ 32(bis) In all bands, the frequencies assignable for oceanographic data transmissions are spaced 0.3 kc/s apart. The frequencies assignable are shown in $\sqrt{Appendix 15A7}$.

MOD

\$ 32(ter) The working frequencies for ship stations using 1180B ADD narrow-band direct-printing telegraph and data systems are spaced 0.5 kc/s apart in the 4, 6 and 8 Mc/s bands and 1.0 kc/s apart in the 12, 16 and 22 Mc/s bands. The frequencies assignable are shown in /Appendix 15A7. 1181 § 33. (1) The working frequencies for high traffic ships MOD

in the band 4 172.25 to 4 178 kc/s are so spaced as to provide channels 0.5 kc/s wide, the extreme frequencies assignable being 4 172.5 and 4 177.5 as shown in /Appendix 15A/.

MOD 1182 -(2) In the band 4 187 to 4 231.5 kc/s, the working frequencies of low traffic ships are spaced 0.5 kc/s apart, the extreme frequencies assignable being 4 187.5 and 4 229 kc/s as indicated in Appendix 15A7.

MOD 1183 § 34. The working frequencies assigned to each ship station in the 6, 8, 12 and 16 Mc/s band shall be harmonically related to those assigned in the 4 Mc/s band, in all cases where such a relationship is provided in /Appendix 15A/.

1184 s 35. In the 22 Mc/s band, which is not in harmonic MOD relationship with the other bands, the frequencies are spaced as follows, as shown in Appendix 15A7.

> 1185 a) in the high traffic band, the working frequencies are spaced 2 kc/s apart, the extreme frequencies assignable being 22 187 and 22 221 kc/s;

MOD 1186 b) in the low traffic band, the working frequencies are spaced 2.5 kc/s apart, the extreme frequencies assignable being 22 270 and 22 370 kc/s.

§ 36. In the 25 Mc/s band, the frequency separation MOD 1187 shall be 1.5 kc/s. The extreme frequencies which may be assigned are, as shown in Appendix 15A7 : 25 084 and 25 106.5 kc/s.

MOD

 b) Working Frequencies for Ship Stations using Wide-band Telegraphy, Facsimile and Special Transmission Systems

MOD

1188

§ 37. The working frequencies assigned to ship stations using wide-band telegraphy, facsimile and special transmission systems are included within the following band limits :

4	142.5	to	4	162.5	kc/s
6	216.5	to	6	244.5	kc/s
8	288	to	8	328	kc/s
12	431.5	to	12	479.5	kc/s
16	576	to	16	636.5	kc/s
22	112	to	22	160.5	kc/s

1189

MOD

§ 38. (1) Each administration shall assign to each ship station under its jurisdiction and employing wide-band telegraphy, facsimile and special transmission systems, one or more series of working frequencies designated in <u>/Appendix 15A</u>. The total number of series assigned to each ship shall be determined by traffic requirements.

(2) When ship stations employing wide-band telegraphy, facsimile and special transmission systems are assigned less than the total number of working frequencies in a band, the administration concerned shall assign working frequencies to such ships in accordance with an orderly system of rotation that will ensure approximately the same number of assignments on any one working frequency.

(3) However, within the limits of the bands given in No. 1188 administrations may, to meet the needs of specific systems, assign frequencies in a different manner from that shown in Appendix 15A. Nevertheless, administrations shall take into account, as far as possible, the provisions of <u>Appendix 15A</u> concerning channelling and 4 kc/s spacing.

b(bis) Frequencies for Oceanographic Data Stations

 $\frac{3}{5}$ 38(bis) Frequencies assignable to ship stations for oceanographic data transmissions are included within the following band limits :

1190

1191

ADD

ADD

1191A

1000

4 162.5 to 4 166 kc/s 6 244.5 to 6 248 kc/s 8 328 to 8 331.5 kc/s 12 479.5 to 12 483 kc/s 16 636.5 to 16 640 kc/s 22 160.5 to 22 164 kc/s

The frequency bands in 1191A may also be used by buoy stations for oceanographic data transmission and by stations interrogating these buoys.

\$38(ter)(1) Each administration may assign to each type of station in No. 1191A and 1191B under its jurisdiction one or more of the assignable frequencies designated in <u>Appendix 15A</u>.

b(ter) Working Frequencies for Ship Stations using narrow-band direct-printing telegraph and data systems

§ 38(quat) Working frequencies assigned to ships using narrow-band direct-printing telegraph and data systems are included within the following band limits :

4 166	to	4 172.25 kc/s
6 248	to	6 258.25 kc/s
8 331.5	to	8-341.75 kc/s
12 483	to	12 503.25 kc/s
1.6 640	to	16 66 0.5 kc/s
2 2 164	to	22 184.5 kc/s

(1) Each administration shall assign to each ship station under its jurisdiction and employing narrowband direct-printing telegraph and data systems one or more series of working frequencies designated in <u>/Appendix 15A7</u>. The total number of series assigned to each ship shall be determined by traffic requirements.

(2) When ship stations employing narrow-band directprinting telegraph and data systems are assigned less than the total number of working frequencies in a band, the administration concerned shall assign working frequencies to such ships in accordance with an orderly system of rotation that will ensure approximately the same number of assignments on any one working frequency.

ADD

ADD

ADD

ADD

1191B

1191C

1191D

1191E

1191F

ADD

c) Working Frequencies for High Traffic ships

MOD

1192

1193

§ 39. The working frequencies assigned to high traffic ships are included within the following band limits :

4 172.25	to	4	178	kc/s
6 258.25	to	6	267	kc/s
8 341.75	to	8	356	kc/s
12 503.25	to	12	534	kc/s
16 660.5	to	16	712	kc/s
22 184.5	to	22	222.5	kc/s

§ 40. (1) Each administration shall assign to each high traffic ship within its jurisdiction two or more series of working frequencies shown in <u>Appendix 15A</u> or vessels of this class. The total number of series assigned to each ship should be determined by the anticipated traffic volume.

NOC 1195

NCC

d) Working Frequencies for Low Traffic Ships

1196

1197

1198

1194

§ 42. Working frequencies assigned to low traffic ships shall be included within the following band limits :

4	187	to	4	231.5	kc/s
6	280.5	to	6	344	kc/s
8	374	to	8	460	kc/s
12	561	to	12	689.5	kc/s
16	748	to	16	917.5	kc/s
22	267.5	to	22	372	kc/s

MOD

§ 43. (1) In each of the low traffic bands, the assignable frequencies are divided into two equal Groups A and B, Group A comprising the frequencies in the lower half of the band and Group B the frequencies in the upper half (see $\angle A$ ppendix 15<u>A</u> \angle).

(2) Each administration shall assign to each of its low traffic ships two series of working frequencies, one in Group A and the other in Group B. In each band, the two working frequencies are separated, as far as practicable, by half the width of the assignable band

MOD 1199

(3) For example, if the frequency assigned to a ship station is the lowest frequency assignable in Group A, the other should be the lowest frequency assignable in Group B. If one of the frequencies assigned is the second frequency from the low frequency end of Group A, then the other frequency assigned should be the second frequency from the low frequency end of Group B, etc.

NOC 1200

1202

MOD

The working frequencies in the bands specified in No. 1191D for narrow-band direct-printing telegraph and data systems, and in the band 25 082.5 to 25 110 kc/s may be assigned to ships of all kinds.

GENEVA, 1967

<u>Document No. DT/60-E</u> 9 October 1967 <u>Original</u> : English/French/ Spanish

WORKING GROUP 5A

TENTATIVE ADVANCE DRAFT OF TEXTS FOR WORKING GROUP 5A

Ά.

APPENDIX ...

Technical Characteristics for Radiotelephony in the Maritime Mobile Service in the Bands between 1605 and 4000 kc/s

(Division of DSB channels)

B, CAN, F, G, HOL, 1. Coast and ship station shall use upper sideband J, I, USA emissions.

Committee 5

2. The transmitter audio-frequency band shall be 350 to 2700 cycles per second with a permitted amplitude variation of 6 db.

Committee 5

3. The carrier frequencies of stations operating on SSB channels derived from each DSB channel of at least 6 kc/s bandwidth shall be as follows :

- (a) Upper channel carrier frequency shall be the same as that of the double sideband channel.
- (b) Lower channel carrier frequency shall be
 3.0 kc/s lower than the carrier frequency of the double sideband channel.

USA

4. Class A3H emissions shall not be used on SSB channels derived in the lower portion of double sideband channels.



Document No. DT/60-E Page 2

5. The assigned frequency of an SSB channel shall be : F 1350 CAN, I, HOL, USA 1400 cycles per second higher than J. 1500 the carrier frequency. USA 6. If an administration assigns frequencies other than as indicated above, its use of these frequencies shall not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequencies assigned to them in accordance with these Regulations. (Technical specifications) I, USA 7. Definitions of carrier modes : (App. 27) Level N(db) of the carrier with respect Carrier mode to peak envelope power Full carrier (A3H) 0 🔁 $N \ge -6$ Reduced carrier (A3A) -6 > $N \ge -26$ Suppressed carrier (A3J) -26 >Ν 8. Specification of carrier modes for maritime mobile radiotelephony : CAN, F, G, HOL, (a) For class A3A emission the power of the carrier J, USA shall be 16 ± 2 db below the peak envelope power (B, 16 + 6 db)of the emission. B, CAN, F, G, HOL, (b) For class A3J emission the power of the carrier J, USA shall be at least 40 db below the peak envelope power of the emission. Frequency tolerance 9. The carrier frequency of transmitters shall be /installed after/ maintained within the following tolerances : •••••• B, CAN, F, G, HOL, (a) Coast stations : ± 20 c/s J. USA B, F, G, HOL, J, USA (b) Ship stations : + 100 c/s $(CAN, \pm 50)$

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F, G, J, USA	In the case of ship stations, the short-term limits (of the order of 15 minutes) shall be \pm 40 c/s.
	(Note : Consequential changes to be made in App. 3)
G, HOL, J, USA	10. The unwanted frequency modulation of the carrier shall be sufficiently low to prevent harmful distortion.
W.G.5 a.h.	ll. Emission limitations. (Wait for recommendations of Working Group 5 ad hoc)

GENEVA, 1967

Document No. DT/61-E 10 October 1967 Original : French

WORKING GROUP 5B

PROPOSALS CONCERNING A TIMETABLE FOR THE TRANSITION TO SINGLE SIDEBAND TECHNIQUE (Bands between 4000 and 23 000 kc/s)

		Proposed	timetable		
Proposals (Country-Doc.No.)	New DSB in- stallations on board ships no longer authorized	Coast stations must be able to make SSB emissions	Coast stations to cease DSB emissions	Total cessa- tion of DSB and A3H (end of DSB emissions from ships)	Remarks
F/8 (54)	* 2)	* 1) 2)	1.1.71	1.1.77	Resolution
USA/16(10)	1.1.70		1.1.70	1.1.74	Art. 35, Sect. III
I/31 (6)	1.1.71	1.1.71	1.1.71	1.1.77	Art. 35, Sect. III
CAN/39(1)	1.1.70 3)	-	-	1.1.74 4)	Art. 7, Sect. IVA or VA
URS/48(1)	1.1.72 3)		-	1.1.77	
HOL/70(1)	1.1.70 5)	1.1.70	1.1.70	1.1.77	Resolution
G/76 (34)	1.1.70 5)	1.1.70	1.1.70	1.1.77	Resolution
J/84 (32)			31.12.69	1.1.74	Resolution
B/1 3 6 (5)	1.1.73	1.1.73 1)	1.1.75	1.1.80	Resolution

1) Provision applying to coast stations open to public correspondence on at least one working frequency.

2) Date of entry into force of the Final Acts of the Conference.

3) Provision also applying to coast stations.

4) Preferably from 1.1.73 onwards.

5) Recommended date only.



GENEVA, 1967

Annex : 1

Document No. DT/62-E 10 October 1967 Original : English

WORKING GROUP 6B

DRAFT

THIRD REPORT OF WORKING GROUP 6B TO COMMITTEE 6 (OPERATION)

Amendments in Article 29 consequential to the establishment of an Appendix 13A (Miscellaneous Abbreviations and Signals to be Used for Radiocommunications in the Maritime Mobile Service)

Upon the recommendation of Working Group 6B <u>ad hoc</u>, Working Group 6B <u>unanimously agreed</u> to recommend adoption of MOD 1004 and MOD 1005 appearing in the Annex attached hereto.

> H. A. FEIGLESON Chairman

Genev

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Page 2

ANNEX

(ex-DT/21 page 1) Article 29

General Radiotelegraph Procedure ...

53. (1) In order to facilitate radiocommunications, stations of the mobile service, other than the maritime mobile service, shall use the service abbreviations given in Appendix 13.

MOD 1005

1004

MOD

(2) In the maritime mobile service, only the service abbreviations given in Appendix 13A are to be used.

<u>Note</u> : The above texts complete page 3 of Document No. 181 (First Report of Working Group 6A to Committee 6).

GENEVA, 1967

Document No. DT/63-E 10 October 1967 Original : English

WORKING GROUP 5C

TENTATIVE ADVANCE OF A DRAFT RESOLUTION RELATING TO THE CHANNEL SPACING OF TRANSMITTING FREQUENCIES ALLOTTED TO THE INTERNATIONAL MARITIME MOBILE SERVICE FOR RADIOTELEPHONY IN THE BAND 156-174 Mc/s

In order to facilitate the discussions of Working Group 5C with respect to the transition from the existing 50 kc/s channel spacing to 25 kc/s channel spacing of the International Maritime Mobile Radio-telephone Service in the VHF band, the attached draft Resolution is presented.

E. FROMMER Chairman

Annex : 1



Document No. DT/63-E Page 2

ANNEX

DRAFT RESOLUTION

Relating to the channel spacing of transmitting frequencies allotted to the International Maritime Mobile Service for radiotelephony in the band 156-174 Mc/s

(See Appendix 18 and Article 35A)

The Maritime Radio Conference, Geneva 1967,

considering

<u>a</u>)

<u>b</u>)

<u>c</u>)

d)

<u>e</u>)

1.

2.

the expanding use of the maritime mobile radiotelephone frequencies in the VHF band between 156 Mc/s and 174 Mc/s;

the increasing demand for additional channels for port operations (including pilotage, tug and other services);

the need for additional VHF channels for short-distance communications in the maritime mobile service to relieve the congestion and saturation on the maritime mobile frequencies in the band 1605 kc/s to 3800 kc/s;

that this expanding use of VHF cannot be fully met by the existing available channels given in the Table of Transmitting Frequencies in Appendix 18;

that additional channels could be made available by reducing the present channel spacing of 50 kc/s to 25 kc/s;

resolves

that the channel spacing for international maritime mobile VHF radiotelephone services shall be reduced from 50 kc/s to 25 kc/s:

that the additional channels shall be obtained by interleaving the 25 kc/s channels midway between the existing 50 kc/s channels given in Appendix 18 of the Radio Regulations, Geneva, 1959; that the 25 kc/s channels should be allocated on an international basis;

(old para. 3 as agreed upon by the Working Group 5C) that during the transition period no harmful interference shall be caused to existing services, especially to ships equipped with receivers built for 50 kc/s spacing between channels;

b) (alternative proposal for old para. 3 after discussions with several delegations)

that channels made available by a country to meet the needs of international shipping should, during the transition period (i.e. up to 1.1.1983), be selected among the channels given in the Appendix 18 of the Radio Regulations, Geneva, 1959. No harmful interference shall be caused to such channels during this period, especially with respect to ships equipped with receivers built for 50 kc/s spacing between channels;

that the technical characteristics of equipment for the international maritime mobile VHF radiotelephone service shall be in accordance with relevant C.C.I.R. Recommendations;

that from 1.1.1983, guard bands on either side of 156.80 Mc/s shall be 156.7625 to 156.7875 Mc/s and 156.8125 to 156.8375 Mc/s;

that the transition from a channel spacing of 50 kc/s to that of 25 kc/s shall be in accordance with the following :

<u>a</u>)	date	of commencement of implementation	1.1.1972
<u>b</u>)	shal and	by which all existing transmitters l be modified to ± 5 kc/s deviation, receiver audio gain increased, where ssary	1.1.1973
<u>c</u>)	stat	on which modification of coast ion receivers to meet the selectivity irements may commence	1.1.1973
<u>d</u>)	1)	date on which all new equipment shall conform to 25 kc/s standards	1.1.1973
	2)	date from which all new equipment ma y conform to 25 kc/s standards	1.1.1973

3.

4.

5.

6.

7.

a)

- <u>e</u>) date by which channel allocations on interleaved channels may commence where possible
- <u>f</u>) date by which all equipments shall conform to 25 kc/s standards and all interleaved channels may be generally introduced

1.1.1983

GENEVA, 1967

Document No. DT/64-E 10 October 1967 Original : French, English, Spanish

COMMITTEE 4

DRAFT

SECOND REPORT OF COMMITTEE 4

1. The attached texts, concerning the provisions of the Radio Regulations mentioned below, have been <u>unanimously</u> adopted by Committee 4.

a) Article 5, Nos. : 196, 196.1, 197, 197.1, 199 and 199.1;
b) Article 32, Nos. : 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, Section I (title), 1106A, 1111, 1113, 1113A, 1113B, 1115A, 1115B, 1116, 1117, 1121, 1122, 1122.1, 1123, 1124, 1125, 1134, Section IV (title), 1139, 1140, 1141, 1142, 1143 and 1144.

F.G. PERRIN

Chairman of Committee 4

Annex : 1



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ANNEX

<u>Article 5</u>

196 In Japan, the band 1605-1800 kc/s is allocated on MOD a permitted basis to the maritime radionavigation service using continuous wave systems with a mean power of not more than 50 watts. 1) 1) 196.1 ADD In Japan, the stations of the maritime mobile service are authorized to use this band subject to agreements to be reached with administrations, the services of which operate in this band in accordance with the Table and which may be affected. MOD 197 In Australia, North Borneo, Brunei, Sarawak, Singapore, China, Indonesia, Malaya, New Zealand and the Philippines, the band 1605-1800 kc/s is allocated on a permitted basis to the aeronautical radionavigation service, the stations of which shall use a mean power not exceeding 2 kW. 1) 1) ADD 197.1 In Australia, North Borneo, Brunei, Sarawak, Singapore, China, Indonesia, Malaya, New Zealand and the Philippines the stations of the maritime mobile service are authorized to use this band subject to agreements to be reached with administrations, the services of which operate in this band in accordance with the Table and which may be affected. MOD 199 In India, the band 1800-2000 kc/s is allocated on a permitted basis to the aeronautical mobile service. 1) 1) ADD 199.1 In India, the stations of the maritime mobile service are authorized to use this band subject to agreements to be reached with administrations. the services of which operate in this band in accordance with the Table and which may be affected. Article 32 SUP 1095 SUP 1096 SUP 1097 SUP 1098

SUP	1099	
SUP	1100	
SUP	1101	
SUP	1102	
SUP	1103	
SUP	1104	
SUP	1105	
MOD (title)		<u>Section I - General</u>
ADD	1106A	Whenever the class of emission A2 or A2H is mentioned in the present Regulations for use in the maritime mobile service, the type of transmission shall be telegraphy by on-off keying of the modulated emission, to the exclusion of on-off keying of the modulating audio frequencies only.
MOD	1111	b) by coast stations to announce the transmission of their traffic lists under the conditions provided for in Nos. 1070 and 1071.
MOD	1113	(5) In order to facilitate the reception of distress calls, other transmissions on the frequency 500 kc/s shall be reduced to a minimum, and in any case shall not exceed one minute.
ADD	111 <i>3</i> A	Before transmitting on 500 kc/s, stations in the mobile service must listen on this frequency for a reasonable period to make sure that no distress traffic is being sent (see number 1007).
ADD	11138	The provisions of number 1113A do not apply to stations in distress.
ADD	1115A	A ship station calling a coast station shall, wherever possible and particularly in regions of heavy traffic, indicate to the coast station that it is ready to receive on the working frequency of that station.

.

ADD	1115B	The ship station should make sure beforehand that this frequency is not already being used by the coast station.
MÓD	1116	The frequency for replies to calls sent on the general calling frequency (see number 1114) shall be as follows :
		- either 500 kc/s,
		- or the frequency specified by the calling station (see numbers 1023 and 1115A).
MOD	· 1117	In regions of heavy traffic, coast stations may answer calls made by ship stations of their own nationality in accordance with special arrangements made by the administration concerned (see number 1023).
MOD	1121	In regions of heavy traffic, coast stations and ship stations should use class Al emission on their working frequencies.
MOD	1122	S 10. As an exception to the provisions of Nos. 1107, 1109, 1110 and 1111 and on condition that signals of distress, urgency and safety, and calls and replies are not interferred with, 500 kc/s may be used outside regions of heavy traffic for direction-finding but with discretion.
SUP	1122.1	
MOD	1123	\$11. (1) Ship stations operating in the authorized bands between 405 and 535 kc/s shall use working frequencies chosen from the following : 425, 454, 468, 480 and 512 kc/s, except as permitted by No. 418.
MOD	1124	(2) Coast stations are prohibited from trans- mitting on the working frequencies designated for the use of ship stations on a world-wide basis.
MOD	1125	(3) The frequency 512 kc/s may be used by ship stations as a supplementary calling frequency when 500 kc/s is being used for distress.

1134 MOD \$13. (1) Stations of the maritime mobile service open to public correspondence and using frequencies in the authorized bands between 405 and 535 kc/s shall, during their hours of service, remain on watch on 500 kc/s. This watch is obligatory only for class A2 and A2H emissions. MOD Section IV Additional provisions applicable to Region 3 areas (title) North of the equator only. MOD 1139 **5**16. (1) The band 2089.5-2092.5 kc/s is the calling and safety band for the maritime mobile service of radiotelegraphy in those parts of the bands between 1605 and 2850 kc/s in which radiotelegraphy is authorized. 1140 MOD (2) Frequencies in the band 2089.5-2092.5 kc/s may be used for calls, replies and safety. These frequencies may also be used for messages preceded by the urgency or safety signals. MOD 1141 (3) Each coast station using the calling band 2089.5-2092.5 kc/s shall, as far as possible, maintain watch on this band during its working hours. 1142 MOD $(\underline{\lambda})$ Coast stations which use frequencies in the band 2089.5-2092.5 kc/s for calling shall be able to use at least one other frequency in those parts of the bands between 1605 and 2850 kc/s in which the maritime mobile service of radiotelegraphy is authorized. NOC 1143 NOC 1144

GENEVA, 1967

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WORKING GROUP 5A

TENTATIVE ADVANCE DRAFTS OF TEXTS FOR WORKING GROUP 5A

Implementation schedule for SSB operation

- 1. The following schedule shall apply for the conversion of coast and ship radiotelephone stations in the 1605-4000 kc/s band from double sideband to single sideband operation:
 - a) <u>Coast stations</u>
 - 1) Coast stations / open to public correspondence / shall be equipped for single sideband operation on at least one working frequency not later than 1 January / 1970-1973_/.
 - 2) At coast stations, the installation of double_sideband equipment shall not be permitted after 1 January / 1970-1972 /
 - 3) Coast stations shall cease double sideband emissions / except on the carrier frequency 2182 kc/s / not later than 1 January / 1970-1977 /.
 - 4) Coast stations equipped for single sideband operation, shall have the capability to use full carrier (A3H) emissions to permit communication with ship stations_using either double sideband or single sideband reception. / This requirement shall terminate_with respect to working frequencies on 1 January 1980./ / Coast stations shall cease A3H emissions, except on carrier frequency 2182 kc/s, on 1 January / 1974-1980././



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b) <u>Ship stations</u>

- At ship stations, the installation of double sideband equipment shall not be permitted after 1 January / 1970-1973_/
 / with the exception of the cases covered by Nos.987 and 996 of the Regulations_/.
- 2) Ship stations shall cease double sideband emission / with the exception of the cases covered by Nos.987 and 996 of the Regulations / / except on the carrier frequency 2182 kc/s / not later than 1 January / 1970-1980 /.
- 3) Ship stations equipped for single sideband operations, shall also have the capability to use full carrier (A3H) emissions to permit communications with stations using either double sideband or single sideband reception. / This requirement shall terminate with respect to working frequencies on 1 January, 1980 7. / Ship stations shall cease A3H emissions, except on the carrier frequency 2182 kc/s, on 1 January / 1974-1980 /./
- 2. The transition period to which reference is made in the Regulations, pertaining to the conversion of coast and ship radiotelephone stations, operating in the 1605-4000 kc/s band, from double sideband to single sideband operation, shall be in effect from the date of entry_ into force of the Regulations until 1 January / same as 1.b)2) above_/.

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SUMMARY OF PROPOSED SCHEDULES FOR SSB IMPLEMENTATION AT 1605 TO 4000 kc/s

Country	В	CAN	F	G	HOL	J	I	USA	USSR
Document	136(5)	39(1)	8(54)	76(34)	80(1)	84(32)	31(4)	16 (5)	48(1)
DT/2, page	-	76	725	728	732	734	340	345	-
Coast stations					Januar	y +			
Capable of SSB - all channels """ - at least one channel				1070	1970		1971		
" " " - public correspondence, one channel	1973		1973	1970		+			
Cease DSB installations		1970							1972
Cease DSB emission	1975		1975		1970		1973	1970	1977
" " , except 2182		1974		1973		1970			
Cease A3H, except 2182	1.000		7.000	1980	1980	1974		1975	+
End of compulsory A3H on working frequencies	1980		1980		· · · · ·				
Ship stations Cease DSB installations	1973	1970	1973		1970		1971	1970	1972
, except Regs. 907, 900		ļ		1970					
Cease DSB emission	1080	<u>}</u>	1077		12090		1980	1975	1977
" " , except Regs. 987, 966 " " , except 2182	1980	1974	1973	1980	1980	1070		·	<u> </u>
Cease A3H emission, except 2182		1 19[4		1980	1980	1970 1974		1975	+
End of compulsory A3H on working frequencies	1980	<u> </u>	1980	1900	1.700	1-717		1910	

GENEVA, 1967

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WORKING GROUP 6B

DRAFT

FIFTH REPORT OF WORKING GROUP 6B TO COMMITTEE 6 (OPERATION)

Appendix 13 - Miscellaneous Abbreviations and Signals to be used in ` Radiotelegraphy Communications

(ex DT/21, Appendix 13A - Miscellaneous Abbreviations and Signals to be used for p. 4) Radiocommunications in the Maritime Mobile Service

1. All proposals relating to the revision of Appendix 13 to the Radio Regulations were considered.

2. As to the question of principle, the Working Group <u>unanimously</u> agreed to recommend that no amendment to Appendix 13 should be made by the present Conference, subject to possible editorial revision of the title in the light of MOD 1005.

3. The Working Group unanimously agreed to recommend the adoption of Appendix 13A appearing in the Annex hereto.

H.A. FEIGLESON Chairman

Annex: 1



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ANNEX

APPENDIX 13 A

MISCELLANEOUS ABBREVIATIONS AND SIGNALS TO BE USED FOR

RADIOCOMMUNICATIONS IN THE MARITIME MOBILE SERVICE (See Articles 29 and 33)

SECTION I. Q CODE

Introduction

1. The series of groups listed in this Appendix range from QOA to QVZ.

2. The QOA to QQZ series are reserved for the maritime mobile service.

3. Certain Q code abbreviations may be given an affirmative or negative sense by sending, immediately following the abbreviation, the letter C (spoken as CHARLIE) or NO (spoken as NO) in the case of radiocommunications.

4. The meanings assigned to Q code abbreviations may be amplified or completed by the addition of appropriate other groups, call signs, place names, figures, numbers, etc. It is optional to fill in the blanks shown in parentheses. Any data which is filled in where blanks appear shall be sent in the same order as shown in the text of the following tables.

5. Q code abbreviations are given the form of a question when followed by a question mark in radiotelegraphy and RQ (ROMEO QUEBEC) in radiotelephony. When an abbreviation is used as a question and is followed by additional or complementary information, the question mark (or RQ) should follow this information.

6. Q code abbreviations with numbered alternative significations shall be followed by the appropriate figure to indicate the exact meaning intended. This figure shall be sent immediately following the abbreviation.

7. All times shall be given in Greenwich Mean Time (G.M.T.) unless otherwise indicated in the question or reply.

8. An asterisk * appearing against a Q code abbreviation means :

This signal is one which has a similar meaning to a signal appearing in the International Code of Signals and which signal is felt to be within the area of responsibility of I.M.C.C. The signal is included herein provisionally, pending the general carriage by ships of the International Code of Signals.

ADD

ABBREVIATIONS AVAILABLE FOR THE MARITIME MOBILE SERVICE

A. List of Abbreviations in Alphabetical Order

Abbre- viation	Question	Answer or Advice			
Q	Can you communicate by radiotelegraphy (500 kc/s) ?	I can communicate by radio- telegraphy (500 kc/s).			
Q	Can you communicate by radiotelephony (2182 kc/s) ?	I can communicate by radio- telephony (2182 kc/s).			
Q	Can you communicate by radiotelephony (channel 16-156.80 Mc/s) ?	I can communicate by radio- telephony (channel 16-156.80 Mc/s).			
Q	 Can you communicate with me in 0. Dutch 5. Italian 1. English 6. Japanese 2. French 7. Norwegian 3. German 8. Russian 4. Greek 9. Spanish ? 	I can communicate with you in 0. Dutch 5. Italian 1. English 6. Japanese 2. French 7. Norwegian 3. German 8. Russian 4. Greek 9. Spanish			
Q		The groups which follow are from the International Code of Signals.			
Q 	Have you received the safety signal transmitted by (name and/or call sign) ?	I have received the safety signal transmitted by (name and/or call sign).			
Q	What is the commercial quality of my signals ?	The quality of your signals is : 1. Uncommercial 2. Commercial with difficulty 3. Commercial			
Q	How many tapes have you to transmit ?	I have tapes to transmit.			

Abbre- viation	Question	Answer or Advice				
Q	Shall I transmit a phasing signal for seconds ?	Transmit a phasing signal for seconds.				
Q	Shall I transmit my tape ?	Transmit your tape.				
Q 1)	Will you listen on or 2182 kc/s or 121.5 Mc/s or 243 Mc/s or kc/s Mc/s for signals of emergency position-indicating radio- beacons.	I am listening on or 2182 kc/s or 121.5 or 243 Mc/s or kc/s Mc/s for signals of emergency position-indicating radiobeacons.				
Q 1)	Have you received the signal of an emergency position- indicating radiobeacon on or 2182 kc/s or 121.5 Mc/s or 243 Mc/s or kc/s Mc/s ?					

1) Agreed subject to other frequencies possibly to be added.

Abbre- viation	Question	Answer or Advice
QRA	What is the name of your vessel (or station)?	The name of my vessel (or station) is
QRB	How far approximately are you from my station?	The approximate distance between our station is nautical miles (<u>or</u> kilometres
QRC	By what private enterprise (<u>or</u> State Administration) are the accounts for charges for your station settled?	The accounts for charges of my station are settled by the private enterprise (or State Administration)
QRD	Where are you bound for and where are you from?	Iam bound for from
QRE	What is your estimated time of arrival at (<u>or</u> over) (<u>place</u>)?	My estimated time of arrival at (<u>or</u> over) (<u>place</u>) is hours
QRF	Are you returning to (<u>place</u>)?	I am returning to (<u>place</u>) Return to (place) or
QRG	Will you tell me my exact frequency (<u>or</u> that of)?	Your exact frequency (or that of) is kc/s (or Mc/s)
QRH	Does my frequency vary?	Your frequency varies
QRI	How is the tone of my trans- mission?	The tone of your transmission is 1. good 2. variable 3. bad
QRJ	How many radiotelephone calls have you to book?	I have radictelephone calls to book
QRK	What is the intelligibility of my transmission (<u>or</u> that of (name and/or call sign))?	The intelligibility of your transmission (or that of (name and/or call sign)) is 1. bad 2. poor 3. fair 4. good 5. excellent

		Annex to Document No. DT/66-E Page 6
<u>Abbre-</u> viation	Question	Answer or Advice
<u></u>		
QRL	Are you busy?	I am busy (or I am busy with (name and/or call sign))
		Please do not interfere.
QRM	Is my transmission being interfered with?	Your transmission is being interfered with : (1. nil
		2. slightly 3. moderately
		4. severely 5. extremely).
QRN	Are you troubled by static?	I am troubled by static. (1. nil
		 Slightly moderately
·.		4. severely 5. extremely).
QRO	Shall T increase transmitter	
QUU.	Shall I increase transmitter power?	Increase transmitter power.
QRP	Shall I decrease transmitter power?	Decrease transmitter power.
QRQ	Shall I transmit faster?	Transmit faster (words per minute)
QRR	Are you ready for automatic operation?	I am ready for automatic operation. (Send at words per minute.)
QRS	Shall I transmit more slowly?	Transmit more slowly (words per minute).
QRT	Shall I stop transmitting?	Stop_transmitting.
QRU	Have you anything for me?	I have nothing for you.
QRV	Are you ready?	I am ready.
QRW	Shall I inform that you	Please inform that I am
đĩ trà	are calling him on kc/s (or Mc/s)?	calling him on kc/s (or Mc/s).
QRX	When will you call me again?	I will call you again at hours (on kc/s (or Mo/s)).

.

			Annex to Document No. DT/66-E Page 7
	Abbre- viation	Question	Answer or Advice
	QRY	What is my turn? (Relates to communication)	Your turn is Number (or according to any other in- dication). (Relates to communication)
•	QRZ	Who is calling me?	You are being called by (on kc/s (or Mc/s)).
	QSA	What is the strength of my signals (or those of (name and/or call sign))?	The strength of your signals (or those of (name and/ or call sign) is 1. scarcely perceptible 2. weak 3. fairly good 4. good 5. very good
	QSB	Are my signals fading?	Your signals are fading.
	QSC	Are you a low traffic ship station? (see Article 32, Section V)	I am a low traffic ship station.
	QSD	Are my signals mutilated?	Your signals are mutilated.
	QSE*)	What is the estimated drift of the survival craft?	The estimated drift of the survival craft is (<u>figures and units</u>)
	QSF*)	Have you effected rescue?	I have effected rescue and am proceeding to base (with persons injured requiring ambulance).
	QSC-	Shall I transmit telegrams at a time?	Transmit telegrams at a time.
	02H	Are you able to home with your direction-finding equipment?	I am able to home with my -direction-finding equipment (on (name and/or call sign)).
	QSI		I have been unable to break in on your transmission.
			Will you inform(<u>name and/or call</u> <u>sign</u>) that I have been unable to break in on his transmission (on kc/s (<u>or Mc/s</u>)).

<u>Abbre-</u> viation	Question	Answer or Advice
QSJ	What is the charge to be collected to including your internal charge?	The charge to be collected to including my internal charge is francs.
QSK	Can you hear me between your signals and if so can I break in on your trans- mission?	I can hear you between my signals; break in on my transmission.
QSL	Can you acknowledge receipt?	I am acknowledging receipt.
QSM	Shall I repeat the last telegram which I sent you (<u>or</u> some previous telegram)?	Repeat the last telegram which you sent me (or telegram(s) number(s)).
QSN*)	(Do not include text of QSN)	
ର୍ଟ୍ସଠ	Can you communicate with (name and/or call sign) direct (or by relay)?	I can communicate with (name and/or call sign) direct (or by relay).
QSP	Will you relay to (name and/or call sign) free of charge?	I will relay to (name and/or call sign) free of charge.
ବ୍ଟଟ୍	Have you a doctor on board (or is (<u>name of person</u>) on board)?	I have a doctor on board (<u>or (name of person</u>) is on board)
QSR	Shall I repeat the call on the calling frequency?	Repeat your call on the calling frequency; did not hear you (<u>or</u> have interference).
ର୍SS	What working frequency will you use?	I will use the working fre- quency kc/s (or Mc/s) (in the high frequency bands; normally only the last three figures of the fre- quency need be given).

<u>Abbre-</u> viation	Question	Answer or Advice
QSU	Shall I transmit or reply on this frequency (or on kc/s (or Mc/s)); (with emissions of class)?	Transmit or reply on this frequency (or on kc/s (or Mc/s)); (with emissions of class).
QSV	Shall I transmit a series of V's (or signs for adjust- ment on this frequency (or kc/s (or Mc/s))?	Transmit a series of V's (or signs for adjustment on this frequency (or kc/s (or Mc/s)).
QSW	Will you transmit on this frequency (or onkc/s(or Mc/s)) (with emissions of class)?	I am going to transmit on this frequency (or on kc/s (or Mc/s)) (with emissions of class).
QSX	Will you listen to (name and/or call sign) on kc/s (or Mc/s))?	I am`listening to (name and/or call sign)(on kc/s (or Mc/s)).
QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (<u>or</u> on kc/s (<u>or</u> Mc/s)).
QSZ	Shall I transmit each word or group more than once?	Transmit each word or group twice (or times).
QTA	Shall I cancel telegram (or message) number?	Cancel telegram (or message) number
QTB	Do you agree with my counting of words?	I do not agree with your counting of words; I will repeat the first letter or digit of each word or group.
QTC	How many telegrams have you to transmit?	I have telegrams for you (or for (name and/or call sign)).
QID *)	What has the rescue vessel or rescue aircraft recovered?	<pre> (identification) has recovered 1 (number) survivors 2. wreckage 3 (number) bodies.</pre>

Abbre-	Question	Answer or Advice
viation		
QTE	What is my TRUE bearing from you? or	Your TRUE bearing from me is degrees at hours. or
	What is my TRUE bearing from (name and/or call sign) from	Your TRUE bearing from (name and/or call sign) was degrees at hours.
	or What is the TRUE bearing of (name and/or call sign) from (name and/or call sign)?	or The TRUE bearing of (name and/or call sign) from (name and/or call sign) was degrees at hours.
QTF	Will you give me my position according to the bearings taken by the direction- finding stations which you control?	Your position according to the bearings taken by the direction-finding stations which I control was latitude longitude (or other indication of position), class at hours.
QTG	Will you transmit two dashes of ten seconds each (or carrier frequency) followed by your call sign (or name) (repeated times) (on kc/s (Mc/s)?	I am going to transmit two dashes of ten seconds each (or carrier frequency) followed by my call sign (or name) (repeated times) (on kc/s (or Mc/s)).
	or Will you request (name and/or call sign) to transmit two dashes of ten seconds each (or carrier) followed by his call (and/or name) (repeated times on kc/s (or Mc/s))?	or I have requested (name and/or call sign) to transmit two dashes of ten seconds each (or carrier) followed by his call sign (and/or name) (repeated times) on kc/s (or Mc/s)

What is your position in latitude and longitude (or according to any other indication)?

QTI*)

QTH

What is your TRUE course?

... longitude (or according to any other indication)

My position is ... latitude

My TRUE course is degrees.

<u>Abbre-</u> viation	Question	Answer or Advice
QTJ*)	What is your speed?	My speed is knots (<u>or</u> kilometres per hour <u>or</u> statute miles per hour),
	(Requests the speed of a ship or aircraft through the water or air respectively)	(Indicates the speed of a ship or aircraft through the water or air respectively)
QTK*)	What is the speed of your aircraft in relation to the surface of the earth?	The speed of my aircraft in relation to the surface of the earth is knots (or kilometres per hour or statute miles per hour)
$_{\rm QTL}^{*)}$	What is your TRUE heading?	My TRUE heading is degrees.
QTM*)	What is your MAGNETIC heading?	My MAGNETIC heading is degrees.
QTN*)	At what time did you depart from (<u>place</u>)	I departed from (<u>place</u>) at hours.
QTO.	Have you left dock (or port)?	I have left dock (or port).
	Are you airborne?	I am airborne.
QTP	Are you going to enter dock (<u>or</u> port)?	I am going to enter dock (<u>or</u> port). <u>or</u>
	Are you going to alight (or land)?	I am going to alight (or land).
QTQ	Can you communicate with my station by means of the International Code of Signals (INTERCO)?	I am going to communicate with your station by means of the International Code of Signals (INTERCO).
QTR	What is the correct time?	The correct time is hours.
QTS	Will you transmit your call sign (and/or name) for seconds?	I will transmit my call sign and/or name) for seconds

<u>lbbre-</u> viation	Question	Answer or Advice
QTT	· · · · · · · · · · · · · · · · · · ·	The identification signal whi follows is superimposed of another transmission.
QTU	What are the hours during which your station is open?	My station is open from to hours.
QTV	Shall I stand guard for you on the frequency of kc/s (or Mc/s) (from to hours)?	Stand guard for me on the frequency of kc/s (or M from to hours).
QTW	What is the condition of survivors?	Survivors are in condition urgently need
QTX	Will you keep your station open for further communi- cation with me until further notice (or until hours)?	I will keep my station open a further communication with you until further notice until hours).
QTY*)	Are you proceeding to the position of incident and 1f so when do you expect to arrive?	I am proceeding to the posit: of incident and expect to arrive at hours (on <u>date</u>)
QTZ*)	Are you continuing the search?	I am continuing the search fo (aircraft, ship, survival craft, survivors or wreckage).
QUA	Have you news of (name and/or call sign)?	Here is news of (name and/or call sign)
QUB*)	Can you give me in the following order information concerning: the direction in degrees TRUE and speed of the surface wind; visibility; present weather; and amount, type and height of base of cloud above surface elevation at (place of observation)?	Here is the information requested: (<u>The units used for speed</u> and distances should be indicated).

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Abbre-	Question	Answer or Advice
<u>viation</u> QUC	What is the number (<u>or other</u> <u>indication</u>) of the last message you received from me (<u>or</u> from (name and/or call sign))?	The number (<u>or</u> other indication) of the last message I received from you (<u>or</u> from (name and/or call sign)) is
QUD	Have you received the urgency signal transmitted by (name and/or call sign)?	I have received the urgency signal transmitted by (name and/or call sign) at hours.
QUE	Can you use telephony in (<u>language</u>), with interpreter if necessary; if so, on what frequencies?	I can use telephony in (<u>language</u>) on kc/s (<u>or</u> Mc/s).
QUF	Have you received the distress signal transmitted by (name and/or call sign)?	I have received the distress signal transmitted by (name and/or call sign).at hours.
QUH*)	Will you give me the present	The present barometric, pressure

barometric pressure at sea level?

at sea level is ... (units).

r	age	14

<u>Abbre-</u> viation	Question	Answer or Advice
QUM	May I resume normal working?	Normal working may be resumed.
QUN	1. When directed to all stations :	My position, TRUE course and speed are
	Will vessels in my immediate vicinityor	
	(in the vicinity of latitude longitude)	
	or (in the vicinity of)	
	Please indicate their position, TRUE course and speed?	
	2. When directed to a single station :	
	Please indicate your position, TRUE course and speed.	
QUO*)	Shall I search for	Please search for
•	l. aircraft 2. ship 3. survival craft	l. aircraft 2. ship 3. survival craft
	in the vicinity of latitude longitude (<u>or according to any other</u> <u>indication</u>)?	in the vicinity of latitude longitude (<u>or according to any</u> other indication).
_{QUP} *)	Will you indicate your position by	My position is indicated by
	 searchlight black smoke trail pyrotechnic lights? 	 searchlight black smoke trail pyrotechnic lights.

		Page 15
<u>Abbre-</u> viation	Question	Answer or Advice
_{QUR} *)	Have survivors	Survivors
-	 received survival equip- ment been picked up by rescue 	 are in possession of survival equipment dropped by have been picked up by
	vessel 3. been reached by ground rescue party?	rescue vessel 3. have been reached by ground rescue party.
QUS*)	Have you sighted survivors or	Have sighted
	wreckage? If so, in what position?	 survivors in water survivors on rafts wreckage
		in position latitude longitude (<u>or according to any other indi-</u> cation).
QUI*)	Is position of incident marked?	Position of incident is marked by 1. flame or smoke float 2. sea marker 3. sea marker dye 4 (specify other marking).
QUU*)	Shall I home ship or aircraft to my position?	 Home ship or aircraft (<u>call sign</u>) 1. to your position by transmitting your call sign and long dashes on kc/s (<u>or Mc/s</u>) 2. by transmitting on kc/s (<u>or Mc/s</u>) TRUE track to reach you.
QUW*)	Are you in the search area desig- nated as (<u>designator or</u> <u>latitude and longitude)</u> ?	I am in the(<u>designation</u>) search area.
QUY*)	Is position of survival craft marked?	Position of survival craft wa marked at hours by 1. flame or smoke float 2. sea marker 3. sea marker dye 4 (specify other marking).

List of Signals according to the Nature of Questions в.

Answer or Advice

(This table can be prepared only after Section IA has been adopted)

SECTION II. MISCELLANEOUS ABBREVIATIONS AND SIGNALS

Abbreviation or Signal	Definition
AA	All after (<u>used after a question mark in radio-</u> telegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
AB	All before (used after a question mark in radio- telegraphy and after RQ in radiotelephony (in case
	of language difficulties) to request a repetition).
ADS	Address (used after a question mark in radiotelegraphy and after RQ in radiotelephony (in case of language
· · ·	difficulties) to request a repetition).
ĀR	End of transmission.
AS	Waiting period.
BK	Signal used to interrupt a transmission in progress.
BN	All between and (used after a question mark in radiotelegraphy and after RQ in radiotelephony (in
	case of language difficulties) to request a repetition).
BQ	A reply to an RQ.
BI	Signal to mark the separation between different parts of the same transmission.
C	Affirmative - yes or "The significance of the previous group should be read in the affirmative."

Note : When used in radiotelegraphy a bar over the letters composing a signal denotes that the letters are to be sent as one symbol.

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Abbreviation or Signal	Definition
CFM	Confirm (or I confirm).
CL	I am closing my station.
COL	Collate (or I collate).
CORRECTION (KOR-REK-SHUN)	Cancel my last word or group. The correct word or group follows (for radiotelephony).
CP	General call to two or more specified stations (<u>see</u> <u>Article 31</u>).
CQ	General call to all stations (see Articles 31 and 33 (No. 1302)).
CS	Call sign (used to request a call sign).
DE	"From" (used to precede the name or other identification of the calling station) - see No. 1216A.
DF	Your bearing at hours was degrees, in the doubtful sector of this station, with a possible error of degrees.
DO	Bearing doubtful. Ask for another bearing later (<u>or</u> at hours).
E	East (Cardinal direction) (see No. 1400).
ETA	Estimated time of arrival.
INTERCO (IN-TER-CO)	International Code of Signals groups follow (for radiotelephony).
TTP	The punctuation counts.
К	Invitation to transmit.
KA	Starting signal.
KTS	Nautical miles per hour (knots).
MIN	Minute (or Minutes).

Abbreviation or Signal	Definition
MSG	Prefix indicating a message to or from the master of a ship concerning its operation or navigation.
N	North (Cardinal).
NIL	I have nothing to send to you.
NO	No (<u>Negative</u>).
NW	Now.
NX	Notice to Mariners or Notice to Mariners follows.
OK	We agree (or It is correct).
OL	Ocean Letter.
Р	Prefix indicating a private radiotelegram.
PBL	Preamble (used after a question mark in radiotelegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
PSE	Please.
R	Received.
REF	Reference to (or Refer to).
RPT	Repeat (or I repeat) (or Repeat).
RQ	Indication of a request.
S	South (Cardinal direction) (see No. 1400).
SIG	Signature (used after a question mark in radiotelegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
SLT	Radiomaritime Letter.
SVC	Prefix indicating a service telegram.

Abbreviation or Signal	Definition
SYS	Refer to your service telegram.
TFC	Traffic.
TR	Used by a land station to request the position and next port of call of a mobile station (<u>see No. 1083 and 1314</u>); used also as a prefix to the reply.
TU	Thank you.
TXT	Text (used after a question mark in radiotelegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
VA	End of work.
W	West (Cardinal direction) (see No. 1400).
WA	Word after (<u>used after a question mark in radio-</u> telegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
WB	Word before (used after a question mark in radio- telegraphy and after RQ in radiotelephony (in case of language difficulties) to request a repetition).
WD	Word(s) or Group(s).
WX	Weather report or weather report follows.
XQ	Prefix used to indicate an operational communication.
YZ	The words which follow are in plain language.

Note : When used in radiotelegraphy a bar over the letters composing a signal denotes that the letters are to be sent as one symbol.

GENEVA, 1967

Document No. DT/67-E 11 October 1967 Original : English

WORKING GROUP 5A

REPORT OF THE AD HOC GROUP 5A TO WORKING GROUP 5A

<u>Participants</u> : Denmark France The Netherlands

(Reference Document : USSR/49(3))

The ad hoc Group, having examined the reference document and taking into account the decision of Working Group 5A to incorporate the existing Search and Rescue arrangements in the Radio Regulations, recommends the following addition :

Article 35

Section II.

Bands between 1605 and 4000 kc/s

ADD

A new part D(bis)

ADD

1339A

The frequency 3023.5 kc/s may be used for intercommunication between mobile stations engaged in coordinated Search and Rescue operations including communication between these stations and particular land stations, in accordance with the provisions of paragraph 4 of No. 27/196 of the Frequency Allotment Plan for the Aeronautical (R) Service. (Appendix 27).

V.R.Y. WINKELMAN Chairman



GENEVA, 1967

Addendum to Document No. DT/68-E 13 October 1967 Original : English

WORKING GROUP 6B

ANNEX

DIFFERENCES BETWEEN THE PROVISIONS OF APPENDICES 13A AND 16, REVISED, TO THE RADIO REGULATIONS AND THOSE OF THE INTERNATIONAL CODE OF SIGNALS

I. Figure Spelling Table

The figure spelling table of Appendix 16, revised, contains in addition to the figures 0 to 9 and the mark "Decimal Point", the mark "Full Stop" as follows :

Figure or mark to be		
transmitted	Code word	Spoken as
Full stop	STOP	STOP

II. <u>Signals of Appendix 13A pertaining to use of emergency position-indicating</u> radiobeacons not appearing in the International Code of Signals

/ēx, DT/66 p.4/

7ex. DT/66

p.4/

ର୍ ୍

Q.,

- Will you listen on or 2182 kc/s or 121.5 Mc/s or 243 Mc/s or kc/s Mc/s for signals of emergency position-indicating radiobeacons.
- Have you received the signal of an emergency positionindicating radiobeacon on or 2182 kc/s or 121.5 Mc/s or 243 Mc/s or kc/s Mc/s ?
- I an listening on or 2182 kc/s or 121.5 or 243 Mc/s or kc/s Mc/s for signals of emergency positionindicating radiobeacons.
- I have received the signal of an emergency positionindicating radiobeacon on 2182 kc/s or kc/s Mc/s or 121.5 Mc/s or 243 Mc/s or kc/s Mc/s.



Addendum to Document No. DT/68-E Page 2

III.	Signals with i	dentical or al	most the same Meanings but with different
	Abbreviations or Signals		
	App. 13A	<u>I.C.O.S.</u>	*) <u>Meaning</u> *)
/ex. DT/66 pp.3-15/	Q	YI	I have received the safety signal transmitted by (name and/or call sign).
	Q ?	YJ	Have you received the safety signal trans- mitted by (name and/or call sign)?
	QRX	YL	I will call you again at hours (on kc/s (or Mc/s))
	QRZ ?	YM	Who is calling me?
	QTA	YN	Cancel telegram (or message or signal) number
	Q ?	YR 7	Can you communicate by radiotelegraphy (500 kc/s)?
	Q ?	YR 8	Can you communicate by radiotelephony (2182 kc/s)?
	Q ?	YR 9	Can you communicate by radiotelephony (channel 16 - 156.80 Mc/s)?
	QTQ	YU	I am going to communicate with your station by means of the International Code of Signals (INTERCO)
	QSW	YW	I am going to transmit on this frequency (or on kc/s (or Mc/s)) (with emissions of class)
	QSW	YX	11
	QSW	YY	19

*) In cases of slight differences of meanings, the wording of Appendix 13A is given.

Addendum to Document No. DT/68-E Page 3

<u>App. 13A</u>	I.C.O.S.	Meaning
Q	ZB	I can communicate with you in
		0. Dutch 5. Italian
		1. English 6. Japanese
		2. French 7. Norwegian
		3. German 8. Russian
		4. Greek 9. Spanish
Q ?	ZC	Can you communicate with me in \dots (0 - 9 as above)
QRS	ZM	Transmit more slowly (words per minute).
QRS ?	ZM 1	Shall I transmit more slowly?
QSZ	ZN	Transmit each word or group twice (or times)
QRT	ZO	Stop transmitting
QRT ?	ZO 1.	Shall I stop transmitting?
	Q ? QRS QRS ? QSZ QRT	QZBQ?QRSZMQRS?QRS?QRTZO

BT, CL, CP, BK, BQ, DF, DO, NX, 0Ĺ, TU, WD, NW, WX,

MIN, MSG XQ,

/ex.

v. Identical Abbreviations or Signals having only a slight Difference of Meaning

QQ

K (no confusion possible, if Signal K is given with numerals)

Note : The following Numbers of the Radio Regulations refer to the International Code of Signals :

1386A

GENEVA, 1967

Document No. DT/68-E 12 October, 1967 Original : English, French, Spanish

WORKING GROUP 6B

DRAFT RESOLUTION ...

RELATING TO THE EXAMINATION OF PERTINENT PORTIONS OF THE REVISED INTERNATIONAL CODE OF SIGNALS (submitted by Working Group 6B ad hoc editorial)

The Maritime Conference, Geneva, 1967,

considering

that the Inter-governmental Maritime Consultative Organization (I.M.C.O.) has prepared a revised International Code of Signals which is designed to be used in all methods of signalling including radio;

that the revised International Code of Signals was adopted by the 4th Assembly of the I.M.C.O. in 1965, to come into effect on first of January 1968; later amended to be first of January 1969;

that the I.M.C.O. Assembly at its 4th Session invited the International Telecommunication Union (I.T.U.) to comment on the pertinent portions of the revised International Code of Signals at an Administrative Radio Conference for the maritime mobile service:

that the present Conference has amended certain portions of the Radio Regulations by adopting Appendix 13A and Appendix 16, revised, and in so doing has attempted to reduce to a minimum differences between the Radio Regulations and the International Code of Signals.

that it is necessary to determine the responsibility of the I.T.U. and the I.M.C.O. regarding the choice and conditions of use of international signals related to radiocommunication;



<u>e</u>)

<u>a</u>)

<u>b</u>)

<u>c</u>)

d)

that it is advisable to bring into force the revised International Code of Signals and Appendices 13A and 16, revised, to the Radio Regulations on the same date.

resolves

that the International Telecommunication Union is responsible for determining the choice and conditions of use of international signals relating to radiocommunication procedures;

that the Inter-Governmental Maritime Consultative Organization is responsible for determining the choice and conditions of use of international signals relating to other matters, such as navigation and search and rescue activities;

that where considered desirable, signals within the responsibility of the International Telecommunication Union may be reproduced in the publications of the I.M.C.O., suitably annotated as to indicate their source;

that the attention of the Inter-Governmental Maritime Consultative Organization should be invited to differences existing between the Radio Regulations and the revised International Code of Signals (see Annex);

requests the Secretary General

1.

<u>f</u>)

1.

2.

3.

4.

to communicate the present resolution together with the annex to the Inter-Governmental Maritime Consultative Organization.

Annex : 1

Annex : 1

GENEVA, 1967

Document No. DT/69-E 12 October 1967 Original : English

COMMITTEE 4

REVISION OF ARTICLE 7

Nos. 451, 451A, 451B, 452, 452.1, 453 and 453.1

The revision of the attached Regulations contained in Article 7 are consequential of decisions taken in Committee 4 concerning revision of Appendix 15A and are presented for consideration of the Committee.

F.G. PERRIN

Chairman of Committee 4



Document No. DT/69-E Page 2

ANNE X

MOD 451 (e) Ship stations, wideband telegraphy, facsimile, and special transmission systems. 4 142.5 - 4 162.5 kc/s 6 216.5 - 6 244.5 kc/s 8 288 - 8 328 kc/s 12 431.5 - 12 479.5 kc/s 16 576 - 16 636.5 kc/s 22 112 - 22 160.5 kc/s ADD 451A (eA) Ship stations, oceanographic data transmission (see note shown with one asterisk in $\underline{Appendix 15A}$) $4 \ 162.5 - 4 \ 166 \ kc/s$ 6 244.5 - 6 248 kc/s 8 328 - 8 331.5 kc/s 12 479.5 - 12 483 kc/s 16 636.5 - 16 640 kc/s 22 160.5 - 22 164 kc/s ADD 451B (eB) Ship stations, narrow-band direct-printing telegraphy and data systems 4 166 - 4 172.25 kc/s 6 248 - 6 258.25 kc/s 8 331.5 - 8 341.75 kc/s 12 483 - 12 503.25 kc/s 16 640 - 16 660.5 kc/s 22 164 - 22 184.5 kc/s-

MOD	452	(f) Ship stations, telegraphy
		4 172.25 - 4 231.5 kc/s
		6 258.25 - 6 344 kc/s
		8 341.75 - 8 460 kc/s
		12 503.25 - 12 689.5 kc/s
		16 660.5 - 16 917.5 kc/s
		22 184.5 - 22 372 kc/s
		$25070 - 25110 \text{ kc/s}^1$
MOD	452.1	¹ The frequencies in the band 25 082.5 - 25 110 kc/s shall be used as working frequencies in addition to frequencies in the band 22 184.5 - 22 372 kc/s
MOD	453	(g) Coast stations, wideband and manual telegraphy, facsimile, special and data transmission systems and direct-printing telegraph systems.
		4 231.5 - 4 361.5 kc/s
		6 344 – 6 512 kc/s
		8 460 - 8 729 kc/s
		12 689.5 – 13 105.5 kc/s
		16 917.5 – 17 255.5 kc/s
		22 372 – 22 622 kc/s
MOD	453.1 ¹	Frequencies in the bands 25 010 - 25 070 kc/s, 25 110 - 25 600 kc/s and 26 100 - 27 500 kc/s may be assigned to coast stations.

Note to the Editorial Committee

No. MOD 453 (title) appears in Document No. 209 sent to the Editorial Committee.

GENEVA, 1967

Document No. DT/70-E 11 October 1967 Original : English

WORKING GROUP 6B

DRAFT

FOURTH REPORT OF WG 6B TO COMMITTEE 6 (OPERATION)

Use of Frequencies for Radiotelephony in the Maritime Mobile Service

Article 35, Section II, A. Distress, ADD 1326A 1326B

Article 35, Section II, C. Watch, MOD 1334 SUP 1335

1. Working Group 6B <u>unanimously agreed</u> to recommend the adoption of the new provisions appearing in the Annex hereto.

2. <u>MOD 1334 and SUP 1335</u>

Proposal POL/83(3) to modify No. 1334 of the Radio Regulations so that the maximum watch practicable on 2182 kc/s should be kept by <u>all</u> ships and, as a consequence, to delete No. 1335 was not supported in its present form. On the other hand the Working Group <u>agreed</u> to consider at its next meeting a draft Resolution by which I.M.C.O. would be invited to consider studying measures to improve watch on 2182 kc/s and to prepare the way for the adoption of a single frequency for distress traffic.

The attention of Committee 5 is invited to the present Report.

H.A. FEIGLESON Chairman



Annex : 1

3.

Document No. DT/70-E Page 2

ANNEX

(ex DT/2, p.331)	ADD	1326A	Before transmitting on 2182 kc/s, a station in the mobile service should listen to this frequency for a reasonable period to make sure that no distress traffic is being sent (see No. 1217).
(ex DT/2, p.331)	ADD	1326B	The provisions of number 1326A do not apply to stations in distress.

GENEVA, 1967

Document No. DT/71-E 11 October 1967 Original: French

WORKING GROUP 5A

DRAFT

OF FIFTH REPORT OF WORKING GROUP 5A

TO COMMITTEE 5

I. Article 35

No. 1337

The Group adopted the new text appearing in Annex I and a new version of No. 1337.1.

Nos. 1338, 1339 and 1340

It was decided not to change these numbers.

Nos. 1341 and 1342

The new texts appearing in Annex I were adopted.

No. 1343

It was decided that this number should remain unchanged.

Nos. 1344 and 1345

The Group adopted the new texts appearing in Annex I. The question of whether to include a frequency in the 2170 - 2173.5 kc/s band in No. 1344 was left in abeyance.

Nos. 1346, 1348 and 1349

It was decided that these numbers should remain unchanged.

No. 1350

The new text appearing in Annex I was adopted.

Document No. DT/71-E Page 2

/Nos. 1336, 1339A, 1339AA, 1344A, 1347 and 1351

It was decided to postpone discussion of the proposals relating to these numbers as they deal with problems - such as the use of channels made available by the reduction of the guard-band for 2182 kc/s - on which it is not possible to take a final decision at the present stage.7

II. Article 5

No. 201

The new text appearing in Annex II was adopted.

III. Article 33

The discussion of this article was confined to the designation of frequencies as Committee 6 is responsible for the final drafting of the provisions of this Article. However, most of the members of the Group thought that the order of Nos. 1226 and 1227 should be reversed.

It was decided that "frequency 2182 kc/s" should be replaced by "carrier frequency 2182 kc/s" in Nos. 1227, 1228, 1230, 1232, 1234, 1235, 1242, 1247, 1254 and 1290.

IV. Technical characteristics for single-sideband transmitters in the bands between 1605 and 4000 kc/s

It was decided that a new appendix should be included in the Radio Regulations setting forth the technical specifications for single sideband transmitters in the HF bands. Committee 5 would have to decide whether the same appendix should contain the specifications relating to transmitters operating in the MF bands.

The Group adopted the texts of paragraphs 1 to 7 appearing in Annex III. In line with the decision taken by Working Group 5B, the Group considered it to be unnecessary to define the classes of emission A3A, A3H and A3J. A proposal to include in this appendix a paragraph containing proposals similar to those of paragraph 4 of Appendix 17 was withdrawn.

V. Proposal concerning the implementation of single sideband technique mode of operation on frequency 2182 kc/s (see DT/19, page 5, paragraph 2)

This proposal was withdrawn.

P. AAKERLIND Chairman

Annexes: 3

Document No. DT/71-E Page 3

ANNEX I

.

Article 35

MOD	1337	(2) Coast stations open to the public correspondence service on one or more frequencies between 1605 and 2850 kc/s shall also be capable of transmitting class A3 1) or A3H emissions with carrier frequency on 2182 kc/s, and receiving class A3 and A3H emissions with carrier frequency on 2182 kc/s.
ADD	1337.1	(1) Coast stations are authorized to transmit on A3 only to the conversion date for coast stations.
NOC	1338	
NOC	1339	
• • • • •		•••••••
NOC	1340	
MOD	1341	(2) The peak envelope power of mobile radiotelephone stations operating in the authorized bands between 1605 and 2850 kc/s shall not exceed 400 watts.
MOD	1342	(3) The peak envelope power of coast radiotelephone stations, operating in the authorized bands between 1605 and 3800 kc/s, shall be limited to :
		- 8 kilowatts for coast stations located north of latitude 32°N
		- 14 kilowatts for coast stations located south of latitude 32°N.
4		· · · · · · · · · · · · · · · · · · ·

NOC 1

1343

MOD 1344 a) The following ship-shore working frequencies, if required by their service : - carrier frequency 2046 kc/s (assigned frequency : kc/s) and carrier frequency 2049 kc/s (assigned frequency : kc/s) for A3A and A3J emissions: - carrier frequency also 2049 kc/s for A3 and A3H emissions until the end of the transition period. 1345 MOD c) The following intership frequencies, if required by their service : - carrier frequency 2053 kc/s (assigned frequency : kc/s) and carrier frequency 2056 kc/s (assigned frequency : kc/s) for A3A and A3J emissions: - carrier frequency 2056 kc/s also for A3 and A3H emissions until the end of the transition period. These frequencies may be used as additional ship-shore frequencies. NCC 1346 1348 NOC NOC 1349 MOD 1350 (2) During the periods mentioned above, except for the transmissions provided for in Article 36, transmission shall cease within the band 2173.5 -2190.5 kc/s.

Document No.DT/71-E Page 5

ANNEX II

<u>Article 5</u>

• • • • •	• • • • •	
MOD	201	The frequency 2182 kc/s is the international distress and calling frequency for radiotelephony. The condi- tions for the use of the band 2170 - 2194 kc/s are prescribed in Article 35.
• • • •		

ANNEX III

Appendix <u>[...]</u>

Technical Characteristics for S.S.B. transmitters

in the Radiotelephone Maritime Mobile Service

in the Bands between 1605 and 4000 kc/s

1. Coast and ship station shall use upper sideband emissions.

2. The transmitter audio-frequency band shall be 350 to 2700 cycles per second with a permitted amplitude variation of 6 dB.

3. The carrier frequencies of stations operating on SSB channels derived from each DSB channel of at least 6 kc/s bandwidth shall be as follows :

- (a) Upper channel carrier frequency shall be the same as that of the double sideband channel.
- (b) Lower channel carrier frequency shall be 3.0 kc/s lower than the carrier frequency of the double sideband channel.

4. Class A3H emissions shall not be used on USB channels derived in the lower portion of previous double sideband channels.

5.

The assigned frequency of an SSB channel shall be :

1400 cycles per second higher than the carrier frequency.

6.

Specification of carrier modes for maritime mobile radiotelephony :

(a) For class A3A emission the power of the carrier shall be $16 \pm 2 \text{ dB}$ below the peak envelope power of the emission.

ADD

Annex III to Document No.DT/71-E Page 7

(b) For class A3J emission the power of the carrier shall be at least 40 dB below the peak envelope power of the emission.

7. The carrier frequency of transmitters shall be maintained within the following tolerances :

(a) Coast stations : \pm 20 c/s

(b) Ship stations : $\pm 100 \text{ c/s}$

. . .

These tolerances shall apply to new SSB transmitters installed after \angle \angle and to all SSB transmitters after \angle \angle .

.

GENEVA, 1967

Document No. DT/72-E 13 October 1967 Original : English

WORKING GROUP 6B

DRAFT

SIXTH REPORT OF WORKING GROUP 6B TO COMMITTEE 6 (OPERATION)

Article 35, Section III A. Call, Reply and Safety

ADD 1352A MOD 1353

Article 36, Distress Signal and Traffic. Alarm, Urgency and Safety Signals.

Section I, General, MOD 1386 Section III, Distress Call and Message, MOD 1393 Section VI, Distress Traffic ADD 1433 A

- 1. Working Group 6B unanimously agreed to recommend the adoption of the provisions appearing in the Annexes hereto. Annex 1 is for further consideration in <u>Committee 5</u>. Annex 2 is for normal routing to the Final Acts of the Conference.
- 2. No. 1352A

The attention of <u>Committee 5</u> is invited to Annex 1 attached hereto. It was <u>agreed</u> by Working Group 6B that class A3 emission will be required for ship stations until the end of the transition period.

3. No. 1353

In reply to the question posed by <u>Committee 5</u> in Document No. 199, Working Group 6B is of the opinion that a requirement for a frequency in the 6 Mc/s band continues to exist in the tropical zone of Region 3. Working Group 6B <u>agreed</u> that class A3H emissions will be required with authority for class A3 emissions for ship stations until the end of the transition period.

4. ADD 1386A ADD 1433A

Having considered the question of where, in Article 36, mention should be made of the International Code of Signals bearing in mind the opinion of Working Group 6A (Document No. 234, para. 2, ex-Document No. DT/58), Working Group 6B <u>unanimously agreed</u> to recommend a new provision in Section I, General, of Article 36 (see No. 1386A appearing in Annex 2). Following this decision, proposal G59(9) to include No. 1433A in Section VI, Distress Traffic, was not supported.

H.A. FEIGLESON

NRCHIVES U.I.T. GENEVE

Annexes : 2

Chairman

Document No. DT/72-E Page 2

ANNEX 1

Article 35, Section III

ADD 1352A

Sl4 bis. In that part of the Tropical Zone situated in Region 2 and extending to parallel $34^{\circ}S$ and in that part of the Tropical Zone situated in Region 3 and extending to parallel $50^{\circ}S$, the carrier frequency / 4133 kc/s / is designated for call, reply and safety purposes. It may also be used for messages preceded by the urgency or safety signals and, if necessary, for distress messages.

(RR 1359)

Note: The frequency of the order of 4 Mc/s should be considered by Committee 5.

Document No. DT/72-E Page 3

ANNEX 2

Article 36, Section I

NOC	1380 - 1386	
ADD	1 <u>3</u> 86A	c) by any form of radiocommunication, should use the / provisions of Appendices 13A and 16. / / abbreviations and signals of Appendix 13A and the Phonetic Alphabet and Figure Code in Appendix 16. / Where language difficulties exist, use of the International Code of Signals is recommended.
NOC	1387	
∠ (MOD)	1388_7	/ Document No. 206, page 7 refers /
	1388A_7	<pre>/ Document No. 206 (para. 3 and page 7 refer) - Emergency position - indicating radiobeacons /</pre>
		Section II
NOC	1 3 89 - 1391	
		Section III (in part)
NOC	1392	
MOD	1393	(2) The distress call sent by radiotelephony consists of :
		- the distress signal MAYDAY, spoken three times;
	. · · ·	- the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);
	·	- the call sign or other identification of the mobile station in distress, spoken three times.

GENEVA, 1967

Document No. DT/73-E 12 October 1967 Original : French

WORKING PARTY 5A

NEW WORDING OF NUMBER 1351A AND

DRAFT RESOLUTION CONCERNING CLASS A3B EMISSIONS

1351A

Unless otherwise specified in the present Regulations / see Nos./, stations in the maritime mobile service operating in the bands between 4000 and 23000 kHz shall use the following classes for their radiotelephone emissions, with the necessary bandwidth of 2.8 kHz:

- ship stations = A3A and A3J

- coast stations = A3A or A3J.

Ship stations shall also be allowed to use Class A3 or A3H emissions until / date /.

Coast stations may use Class A3 emissions until / _____ date _/ and shall be allowed to use Class A3H until / _____ date _/.



Document No. DT/73-E Page 2

DRAFT RESOLUTION

The World Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service (Geneva, 1967),

considering

.

<u>a</u>)

<u>b</u>)

that certain administrations are at present using Class A3B emissions, in accordance with the provisions of Appendix 17, for radiotelephone communications with ships;

that difficulties may arise from the use of this class of emission when the Conference is preparing the new allotment plan which is the subject of Recommendation No. \angle Document DT/49 \angle ;

resolves

1.

that the use of Class A3B emissions shall continue to be authorized, in exceptional circumstances, up to the date when the new allotment plan enters into force;

2.

that it shall be for the next Conference to consider whether Class A3B emissions should be maintained after that date.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/74-E 12 October 1967 Original : English/ French/ Spanish

WORKING GROUP 5A

TENTATIVE ADVANCE DRAFTS OF TEXTS

FOR WORKING GROUP 5A

Utilization of two new channels in the band 2 170 - 2 194 kc/s

1. Summary of proposals :

	2 170 2 170.5 kc/s	2 190 2 191 2 191.3 kc/s
F	Coast sel. calling	Ship-shore working
G, I	Coast sel. calling	Ship calling / and ship- shore working/
J	Intership	Ship-shore simplex
USA	Intership	Intership

2. a)

Text adopted by Working Group 5A

Transmissions in the bands /2 170 - 2 173.5 kc/s and 2 190.5 - 2 194 kc/s / respectively on carrier frequency / kc/s () and carrier frequency / kc/s () are limited to emissions of classes A3A and A3J.

b) <u>Discussion deferred by Working Group 5A on the following</u> addition to the above

/ The band 2 170 - 2 173.5 kc/s may also be used with class A2H emissions by coast stations for selective calling./ / The band 2 190.5 -2 194 kc/s may also be used by ship stations for calling coast stations./

3. <u>Pro</u>	posals :		
G (I)	MOD	442 (Region 1)	2 170 - 2 173.5 kc/s : selective calling of ship stations by coast stations.
			2_190.5 - 2 194 kc/s : ship stations calling / and working_/ to coast stations.
I Also see 2.a, above and 1339 A (1)	ADD	1227AA	(Ship calling) c) The frequency [2 190.3] kc/s () / with single [2 191.0] sideband emissions and peak envelope power not exceeding 400 watts_7.
F Also see 1233A, below	ADD	1235A	 (8) Coast stations shall call ships equipped to receive selective call signals by sending class A2H emissions on 2 190.5 2 170 2 191 2 170.5 kc/s 2 191.3 (). After transmission of the ship call number, they shall transmit an identification number to inform the ship of the name of the calling coast station. (Nos. 788F and 1318 E to K)
F Consequential to No. 1235A	MOD	1233	Subject to the provisions of No. 1235 A, coast stations shall
I Also see 2.a and 1235A, above	ADD	1233AA	(5 bis) When using selective calling coast stations shall use the frequency $\begin{bmatrix} 2 & 170 \\ 2 & 170 \end{bmatrix}$ kc/s () / with A3A or A3J emission /.
G	ADD	1242A	When a ship is called by selective calling on $\begin{bmatrix} 2 & 170 \\ 2 & 170 & 5 \end{bmatrix}$ kc/s () it shall reply on $\begin{bmatrix} 2 & 190 & 5 \\ 2 & 191 \\ 2 & 191 & 3 \end{bmatrix}$ kc/s ().
G	ADD	1248A	(Coast station) c) On a working frequency to calls made on the frequency $\begin{bmatrix} 2 & 190.5 \\ 2 & 191 \\ 2 & 191.3 \end{bmatrix}$ kc/s ().

USA	ADD	1339A(1)	(5) The power supplied to the antenna trans- mission line by transmitters operating on carrier frequencies $\begin{bmatrix} 2 & 170 \\ 2 & 170 \end{bmatrix}$ kc/s () and $\begin{bmatrix} 2 & 190.5 \\ 2 & 191 \\ 2 & 191 \end{bmatrix}$ kc/s () shall not exceed 400 watts (P _p).
G	ADD	1339A(2)	(8 bis) When 2 182 kc/s is being used for distress the frequency $\begin{bmatrix} 2 & 190.5 \\ 2 & 191 \\ 2 & 191 \end{bmatrix}$ kc/s () 2 191.3 may be used by ships as a supplementary frequency for calling coast stations. During this period ship stations shall not use $\begin{bmatrix} 2 & 190.5 \\ 2 & 191 \\ 2 & 191 \end{bmatrix}$ kc/s () as an international 2 191.3 working frequency in those areas where it is in use as a supplementary calling frequency.
I	· ·	1339AA	(5) During the transition period from double sideband to single sideband operation, in order to facilitate single sideband communi- cations, the frequency $\begin{bmatrix} 2 & 190.5 \\ 2 & 191 \\ 2 & 191 \end{bmatrix}$ kc/s () may also be used by ship stations for the exchange of traffic
J	ADD	1339A(3)	8a. For the conduct of simplex telephony, all stations on ships making international voyages should be able to use
J	ADD	1339B	<pre>(1) The ship-shore working frequency [2 190.5] [2 191 kc/s (), if required by [2 191.3] their service.</pre>

			Document No. DT/74-E Page 4
J	ADD	13390	 (2) The intership frequency 2 170 2 170.5 kc/s (), if required by their service. This frequency may be used as an additional ship-shore frequency.
G (1344B) Also see 2.a, above	ADD	1344A	(Region 1) (Ships) b) The ship-shore working frequency 2 190.5 2 191 kc/s () 2 191.3 for A3A and A3J emissions.7
F, J USA	MOD	1351	(Regions 2 and 3) All stations on ships making international voyages should be able to use the intership frequency 2638 kc/s () and \int with A3A and A3J emissions only \int the intership frequencies $\begin{bmatrix} 2 & 170 \\ 2 & 170 \\ 2 & 170 \\ 2 & 170 \\ 5 \end{bmatrix}$ kc/s () and $\begin{bmatrix} 2 & 190.5 \\ 2 & 191 \\ 2 & 191.3 \end{bmatrix}$ kc/s (), if required by their service.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/75-E 12 October 1967 Original : English

WORKING GROUP 50

DRAFT

FIRST REPORT OF WORKING GROUP 5C TO COMMITTEE 5 CONCERNING MODIFICATION OF APPENDIX 18

1. There was an unanimous agreement to reduce the channel spacing from 50 kc/s to 25 kc/s, in due time.

2. The Working Group adopted the text of the draft Resolution annexed to this Report concerning the conversion procedure and recommended its approval by Committee 5.

The opinion of the Working Group was divided as to whether a date should be inserted under paragraph e) of resolves 8.

3. With respect to a new frequency allotment plan, replacing the present Appendix 18 in due time, an ad hoc Working Group with Mr. Devey, Canada, as Chairman, was created. The terms of reference of this ad hoc Working Group are the following : "Preparation of a new allotment plan with 25 kc/s channel spacing replacing Appendix 18 in due time".

4. With respect to the addition of a new column "Navigational" to the table of Appendix 18, the overwhelming majority of the Working Group was fully satisfied with the present solution.

5. Discussion concerning proposals Nos. NZL/131(25, 26, 28, 29) took place with respect to designating the frequency 156.8 Mc/s as a distress frequency on a world-wide basis.

Bearing in mind that safety problems are involved which fall under the responsibility of I.M.C.O., and taking into account :

> that some delegation thought it premature to take a decision on this matter at this conference;

that even national use could cause some difficulties;

that a second receiver may become necessary;

the Working Group 5C invited Committee 6 to give its opinion on the operational side of this problem to Committee 5.

E. FROMMER Chairman of Working Group 5C

> U.I.T. BENÈVE

Annex : 1

ANNEX

DRAFT RESOLUTION

Relating to the channel spacing of transmitting frequencies allotted to the International Maritime Mobile Service for radiotelephony in the band 156-174 Mc/s

(See Appendix 18 and Article 35A)

The Maritime Radio Conference, Geneva 1967,

considering

the expanding use of the maritime mobile radiotelephone frequencies in the VHF band between 156 Mc/s and 174 Mc/s;

the increasing demand for additional channels for port operations (including pilotage, tug and other services);

the need for additional VHF channels for short-distance communications in the maritime mobile service to relieve the congestion and saturation on the maritime mobile frequencies in the band 1605 kc/s to 3800 kc/s;

that this expanding use of VHF cannot be fully met by the existing available channels given in the Table of Transmitting Frequencies in Appendix 18;

that additional channels could be made available by reducing the present channel spacing of 50 kc/s to 25 kc/s;

resolves

ľ.

a)

<u>b</u>)

<u>c</u>)

d)

<u>e</u>)

that the channel spacing for international maritime mobile VHF radiotelephone services shall be reduced from 50 kc/s to 25 kc/s;

2.

that the additional channels shall be obtained by interleaving the 25 kc/s channels midway between the existing 50 kc/s channels given in Appendix 18 of the Radio Regulations, Geneva, 1959;

1.1.1973

1.1.1973

1.1.1983

that the 25 kc/s channels should be allocated on an international basis;

that until the end of the transition period, administrations should arrange that ships stations fitted with channels Ol to 28 only can obtain an adequate use of available services;

that in bringing into use channels 50 to 78 during the transition period no harmful interference shall be caused to those services on channels 01 to 28 referred to in resolves 4., especially with respect to ships equipped with receivers built for 50 kc/s spacing between channels;

that the technical characteristics of equipment for the international maritime mobile VHF radiotelephone service shall be in accordance with Appendix 19A;

that from 1.1.1983, guard bands on either side of 156.80 Mc/s shall be 156.7625 to 156.7875 Mc/s and 156.8125 to 156.8375 Mc/s;

that the transition from a channel spacing of 50 kc/s to that of 25 kc/s shall be in accordance with the following :

a) date o	of 1	commencement	of	implementation	1.1.1972	•
ω,		1	0.0mmOrr0.0morr0	U+			•

- b) date by which all existing transmitters shall be modified to <u>+</u>5 kc/s deviation, and receiver audio gain increased, where necessary
- <u>c</u>) date on which modification of coast station receivers to meet the selectivity requirements may commence
- <u>d</u>) 1) date by which all new equipment shall conform to 25 kc/s standards 1.1.1973
- e) date by which channel allocations on interleaved channels may commence where possible
- <u>f</u>) final date of transition period by which all equipments shall conform to 25 kc/s standards and all interleaved channels may be generally introduced

3.

4.

5.

6.

7.

8.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/76-E 13 October 1967 <u>Original</u> : English

WORKING GROUP 6B

REPORT BY WORKING GROUP 6B ad hoc - CAPTAIN SWALLOW

DRAFT RESOLUTION No. ...

relating to the necessity of asking I.M.C.O. to consider

introducing into the International Convention for the Safety of Life at Sea, London, 1960, the amendments necessary to ensure adequate watch being kept on the international distress frequency for radiotelephony by ship stations

The World Administrative Radio Conference, Geneva, 1967,

considering that

this Conference has adopted the necessary amendments to the Radio Regulations, Geneva, 1959, concerning the operation of emergency position-indicating radiobeacons on the international distress frequency for radiotelephony.

ship stations equipped for radiotelegraphy, but having as well means of communications by radiotelephony are required to keep watch only on the international distress frequency for radiotelegraphy.

ships keeping watch only on the international distress frequency for radiotelegraphy will not hear distress calls of small craft calling on the distress frequency for radiotelephony.

if ships in a position to do so should keep watch on both international distress frequencies - for radiotelephony as well as radiotelegraphy - it would increase the safety of ships fitted with radiotelephone only and improve the efficacy of assistance to the survivors from any maritime distress incident.



<u>a</u>)

b)

<u>c</u>) '

<u>d</u>)

is of the opinion

that an increased watch is necessary by ship stations on the radiotelephone distress frequency,

resolves

that the Inter-Governmental Maritime Consultative Organization be invited to give urgent attention to this matter, particularly in the present study being undertaken on Maritime Safety Systems,

requests the Secretary-General

to communicate this **Res**olution to the Inter-Governmental Maritime Consultative Organization.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/77-E 13 October 1967 Original : English

WORKING GROUP 6C

SUPPLEMENTARY REPORT

BY THE CHAIRMAN OF WORKING GROUP 6C LISTING THE REMAINING RR, AR, RESOLUTIONS AND RECOMMENDATIONS TO WHICH NO PROPOSALS HAVE BEEN SUBMITTED TO THIS CONFERENCE AND UNDER THE TERMS OF REFERENCE OF WORKING GROUP 6C

RR

Article 22	:	Nos. 845 - 847
Article 23, Section I Section II Section II	: I:	Nos. 848 - 858 Nos. 859 - 860, 864, 866 Nos. 867 - 893, 805, 897 - 902 Nos. 904 - 906
Section IV	:	-
Article 24	•	Nos. 912 - 913, 919 - 920
Article 25, Section I Section II Section II Section IV Section V	: I: :	Nos. 921 - 922 Nos. 923 - 927 No. 928 Nos. 930, 935, 938 - 946 No. 947
Article 26	:	No. 948

:

<u>AR</u>

Article 8

Nos. 2124 - 2125, 2128 - 2129 Nos. 2132 - 2136



Article 9

:

Nos. 2137 - 2138, 2140 - 2142, Nos. 2146 - 2150

Resolution No. 12

Recommendation No. 17

Recommendation No. 18

Recommendation No. 26

F. WIEFELSPUTZ Chairman

See Agenda for the Eighth and last meeting of WG 6C scheduled for Tuesday, 17 October 1967, 0930 hours, Room A.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/78-E 13 October 1967 Original : English

WORKING GROUP 6C

SUPPLEMENTARY REPORT BY THE CHAIRMAN OF WORKING GROUP 6C (AS A BASIS FOR DISCUSSION)

Article 23

Section IV, Qualifying Service

fourth category (see No. 932).

MOD

MOD

SUP

SUP

MOD 908

907

909

910

911

(2) Before becoming chief operator of a ship station of the second or third category (see Nos. 931 and 931A), an operator holding a first or second class radiotelegraph operator's certificate shall have had at least six month's experience as operator on board ship or in a coast station of which at least three months shall have been on board ship.

\$17.(1) An operator holding a first or second class

radiotelegraph operator's certificate is authorized to embark as chief operator of a ship station of the

(3) Before becoming chief operator of a ship station of the first category (see No. 930), an operator holding a first class radiotelegraph operator's certificate shall have had at least one year's experience as operator on board ship or in a coast station of which at least six months shall have been on board ship.

(see 907 as modified)

(see 908 as modified)

Article 24

<u>Class and Minimum Number of operators</u> for Ship and Aircraft Stations

NOC 912

U.I.T. GENEVE

•	NOC	913		
	MOD	914	a)	ship stations of the first category, except in the case provided for in No. 918 : a chief operator holding a first class radiotelegraph operator's certificate;
	MOD	915	b)	ship stations of the second and third categories, except in the case provided for in No. 918 : a chief operator holding a first or second class radiotelegraph operator's certificate;
	MOD	916	c)	ship stations of the fourth category, except in the case provided for in Nos. 917 and 918 : one operator holding a first or a second class radiotelegraph operator's certificate;
	NOC	917		
	MOD	918	e)	ship stations equipped with radiotelephone installation only : one operator holding either a radiotelephone operator's certificate or a radiotelegraph operator's certificate;
	NOC	919		
	NOC	920		

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INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/79-E 17 October 1967 Original : French/ English

WORKING GROUP 6A

DRAFT

SIXTH REPORT OF WORKING GROUP 6A TO COMMITTEE 6

(OPERATION)

- General Radiotelephone Procedure in the Maritime Mobile Service, Article 33, Section III (continued), Sections IV - VI.

- Calls by Radiotelephony, Article 34.

- Service Documents, Article 20.
- 1. Working Group 6A <u>unanimously agreed</u> to recommend the adoption of the provision appearing in the Annex attached hereto.

2. Article 33, Section IV : ADD 1280A

Since there was not a majority in favour of the new procedure providing ways and means of communication in radiotelephony where language difficulties arise (Proposal No. DNK/38(6)), the proposal was withdrawn.

3. Article 20

3.1 MOD 805

The delegate of Canada withdrew Proposal No. CAN/108(26) since he had learned that the object of the amendment could be attained by the adoption of Proposal No. CAN/108(27) concerning MOD 815.

3.2 ADD 806A

The Working Group <u>agreed</u> to inform Working Group 6C that it was <u>of the opinion</u> that Proposals to amend Appendix 11 to include carriage by ships of the Manual as an alternative to the Radio Regulations etc. were well-founded and should be adopted (Proposals Nos. G/62(70), USA/28(64, 65), appearing on page 457 of Document No. DT/2 refers). On this basis, the delegate of the U.S.A. withdrew Proposal No. USA/28(63).

A. CHASSIGNOL

Chairman



Annex : 1

ANNEX ·

			Article 33, Section III (continued)
	ADD	1252A	/held in abeyance/
	MOD	1253	/held in abeyance/
· · · · · · · · · · · · · · · · · · ·	(MOD)	1254	\$15. If contact is established on the carrier fre- quency 2 182 kc/s, coast and ship stations shall transfer to one of their normal working frequencies
			for the exchange of traffic.
	MOD	1255	/held in abeyance/
	MOD	1256	$\overline{NZL}/131(27)$ held in abeyance
	NOC	1257	/held in abeyance/
	ADD	1257A	/held in abeyance/
		1258	/held in abeyance/
		1258A	\sum Delegation of U.S.A. to draft the text for discussion
			in the light of related decisions Committees 4 and $5\overline{7}$
		1259 - 1265	/held in abeyance/
<u>/</u> G/78(93 <u>)</u> /	MOD	1266	\$20.(1) If the station called is unable to accept
<u>/DNK/38(4)</u> 7			traffic immediately, it should reply to the call as
			indicated in No. 1241 followed by "Wait minutes"
page 306/			(or AS spoken as ALFA SIERRA (minutes) in case

of language difficulties); indicating the probable duration of waiting time in minutes. If the probable duration exceeds ten minutes the reason for the delay

shall be given. Alternatively the station called may indicate by any appropriate means, that it is

not ready to receive traffic immediately.

<u>/</u>DNK/38(4

/DT/2, page 30<u>6/</u>

Ref.

Ref.			
	NOC	1267 - 1268	
			Article 33, Section IV
	NOÇ	1269 - 1272	
/DT/2, page 309/	MOD	1273	- the call sign or other identification of the station called;
			- the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);
	-	 	- the call sign or other identification of the calling station.
	NOC	1274- 1279	
	(MOD)	1280	French version : replace "commutez" by "à vous".
	NOC	1281 - 1283	
	SUP	1284	
<u>/</u> DT/2, page 31 <u>2</u> /	MOD	1285	(6) In transmitting groups of figures each Figure shall be spoken separately and the transmission of each group or series of groups shall be preceded by the words "in figures".
	NOC	1286	
/DT/2, page 31 <u>2</u> /	MOD	1287	§24.(1) The acknowledgement of receipt of a radio- telegram or a series of radiotelegrams shall be given by the receiving station in the following manner :

the call sign or other identification of the

case of language difficulties);

the words THIS IS (or DE spoken as DELTA ECHO in

			- the call sign or other identification of the receiving station;
			- "Your No received, over" (or R spoken as ROMEO (number), K spoken as KILO in case of language difficulties); or
			- "Your No to No received, over" (or R spoken as ROMEO (numbers), K spoken as KILO in case of language difficulties).
			French version : <u>replace</u> "commutez" by "à vous"
	NOC	1288	
(ex DT/2, page 312)	MOD	1289	(3) The end of work between two stations shall be indicated by each of them by means of the word "out" (or \overline{VA} spoken as VICTOR ALFA in case of language difficulties).
			Article 33, Section V
(ex DT/2, page 313)	MOD	1290	<pre>B25.(1) Calling and signals preparatory to traffic shall not exceed two minutes when made on the carrier frequency 2182 kc/s or on 156.80 Mc/s, except in cases of distress, urgency or safety to which the provisions of Article 36 apply.</pre>
	NOC	1291 - 1292	

sending station;

<u>Ref.</u> /DT/2, page 312/ (Cont.)

Annex	to	Document	No.	DT/79-E
Page	5			

•

Ref.			
			Article 33, Section VI
	NOC	1293 - 1294	
(ex DT/2, page 317)	MOD	1295	(2) Any signals sent for testing shall be kept to a minimum, particularly on the carrier frequency 2182 kc/s, the frequency 156.80 Mc/s and in the Tropical Zone of Region 3 on the carrier frequency $\sqrt{6204}$ kc/ \sqrt{s} .
			Article 34
	NOC	1296 - 1300	
(ex DT/2, page 321)	MOD	1301	(2) Coast stations shall transmit their traffic lists on their normal working frequencies in the appropriate bands. This transmission shall be pre- ceded by a call to all stations.
(ex DT/2, page 324)	MOD	1302	(3) They may, however, announce this transmission by the following brief preamble sent on a calling frequency :
			- "Hello all ships" or "CQ" not more than three times;
			- the words "THIS IS" (or DE spoken as DELTA ECHO in case of language difficulties);
			- " radio" not more than three times;
			- "Listen for my traffic list on kc/s".
			In no case may this preamble be repeated. $\underline{/MOD}$ 1302 and SUP 1303, Proposal No. NZL/133(14) held.
	SUP	1303	$\overline{Proposal No. NZL/133(14)}$ held in abeyance
	NOC	1304 - 1308	

,			
Ref.			
(ex DT/2, page 324)	ADD	13084	However, in the maritime mobile service when a station called does not reply, the call may be repeated at three-minute intervals.
	(MOD)	1309	<pre>/ Attention of the Editorial Committee is invited to the possible need to adjust the beginning of this paragraph as a result of the introduction of 1308A. A similar adjustment may be considered desirable in No. 1078 for the same reason. /</pre>
	NOC	1310 <u>-</u> 1311	
(ex DT/2, page 324)	ADD	1311A	(5) However, in the maritime mobile service, before renewing the call, the calling station shall ascertain that further calling is unlikely to cause interference to other communications in progress and that the station called is not in communication with another station.
	NOC	1312- 1313	
(RR 1083)	MOD	1314	88.(1) The land station may, by means of the abbreviation TR, ask the mobile station to furnish it with the following information :
	NOC	1315 - 1316	
(ex DT/2, page 324)	MOD	1317	(2) The information referred to in Nos. 1314 to 1316, preceded by the abbreviation TR, should be furnished by mobile stations without prior request from the coast station, whenever such a measure seems appropriate.

This information is furnished on the authority of the master or the person responsible for the mobile station.

`

Ref.			
	SUP	1318	
	ADD	1318A)	$/\overline{F}/109(102, 103), DT/2, pages 322/3 held/$
	•	· · ·	Article 20
	NOC	789 - 804	
(ex 6C)	MOD	805	(IV) List IV. List of Coast Stations
			There are annexed to this list a table and a chart showing the zones and hours of service of ships of the second and third categories (see Appendix 12) and a table of inland tele- graph rates, limitrophic rates, etc.
(ex 6C)	MOD	806	(V) List V. List of Ship Stations
			 This list shall contain particulars of : a) ship stations fitted with radiotelegraph installations; b) ship stations fitted with radiotelegraph and radiotelephone installations; c) ship stations fitted with radiotelephone installations only of ships communicating with stations of the maritime mobile service
			other than those of their own nationality or making international voyages. This list shall contain a table and a chart showing the zones and hours of service of ships of the second and third categories (see Appendix 12).
. •	NOC	807 - 810	

Ref.

ADD

NOC

MOD

810A

811-814

815

(ex DT/2)page 133) $/\overline{F}/109(93)$ held in abeyance/

\$2.(1) The Secretary-General shall publish the amendments to be made in the documents listed in Nos. 790 and 814 inclusive. Once a month administrations shall inform him, in the form shown for the lists themselves in Appendix 9, of the additions, modifications or deletions to be made in Lists IV, V and VI using for this purpose the appropriate symbols shown in Appendix 10. Furthermore, in order to make the necessary additions, modifications and deletions to Lists I, II, III and VIIIA, he shall use the data provided by the International Frequency Registration Board, obtained from the information received in application of the provisions of Articles 9, 9A and 10. He shall make the requiste amendments to List VII by using the data he has received for Lists I to VI and VIIIA. Lists IV and VI shall be coordinated with the information appearing in List I. The Secretary-General shall refer any discrepancies to the administration concerned.

NOC (RR 824, MOD 824 MOD from 3 to 2 years) MOD 825

NOC

816-823

826-837

The List of Coast Stations (List IV) shall be 36. republished every two years and kept up to date by recapitulative supplements issued every six months.

/held in abeyance/

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/80-E 13 October 1967 Original : French

WORKING GROUP 5B

DRAFT

FOURTH REPORT OF WORKING GROUP 5B TO COMMITTEE 5

1. Appendix 17A

The Working Group adopted the text of paragraphs 5 to 8 of this appendix, as shown in Annex I.

2. Frequency in the HF bands to be used for search and rescue operations

The Working Group decided to mention in Article 35 that, in accordance with Appendix 27 (paragraph 4 of No. 27/201), the frequency 5680 kc/s can be used by stations of the maritime mobile service for search and rescue operations.

It adopted for this purpose the text of No. 1353A given in Annex II.

J. BES Chairman

<u>Annexes</u> : 2

Document No. DT/80-E

Page 2

ANNEX I

AP. 17A

5. The audio-frequency band transmitted shall extend from 350 to 2 700 c/s, and the variation of the amplitude with the frequency shall not exceed 6 db.

The assigned frequency shall be 1 400 c/s higher than the carrier frequency $/ \frac{1}{4}$.

 $\sqrt{6}$. Only the SSB channel from the upper part of a DSB channel may be used for the class of emission A3H//**/.

7. In the case of an emission in class A3H, A3A or A3J, the power supplied to the feeder of the antenna on any discrete interfering frequency shall, when the transmitter is working at its maximum peak envelope power, **remein** below this peak power by the amount shown in the table below.

8. In the case of an SSB emission in class A3H, A3A or A3J, the Power supplied to the feeder of the antenna on any discrete interfering frequency shall, when the transmitter is working at its maximum peak envelope power, remain lower than this peak power by the amount shown in the following table.

Difference ∆ between the frequency of the interfering emission and the assigned frequency (kc/s)	Minimum attenuation with respect to the peak envelope power (db)
1.6 < ∆ ≤ 4.8	28 db
4. 8 < Δ ≤ 8.0	38 db
8.0 < Δ	43 db, without the power of the interfering emission exceeding 50 milliwatts

 $\overline{/}^*$ This provision should also be included in the Preamble to Appendix $1\overline{7}$ $\overline{/}^{**}$ This provision could be transferred to the Preamble to Appendix $1\overline{7}$

ADD

When it is desired to check whether emission using a reduced or suppressed carrier meets the above conditions, a signal consisting of two audio frequencies sufficiently distant from each other to ensure that all the intermodulation products will fall on frequencies that are at least 1.6 kc/s distant from the assigned frequency can be applied to the transmitter input.

ANNEX II

Article 35

.

ADD

ADD 1353A

A(bis) Search and rescue.

The frequency 5680 kc/s may be used throughout the world for intercommunication between mobile stations engaged in coordinated search and rescue operations, including communication between these stations and participating land stations, in accordance with No. 27/201, paragraph 4 of the Frequency Allotment Plan for the Aeronautical Mobile (R) Service (Appendix 27).

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/81-E 14 October 1967 Original : English

WORKING GROUP 5B

REPORT OF WORKING GROUP 5B AD HOC ON APPENDIX 17

The ad hoc Working Group, consisting of delegates of Canada, United Kingdom, U.S.S.R., Norway, and the United States of America, assisted by the representative of C.I.R.M., held two meetings and approved unanimously the draft new Appendix 17 attached hereto. This material was developed pursuant to the terms of reference of the ad hoc Working Group adopted by Working Group 5B on 11 October, as amended by the decisions of the joint meeting of Committees 4 and 5 of 12 October 1967.

In developing the attached documents, it was necessary for the ad hoc group to make certain determinations as follows :

a) Adjust the limit between assignable working frequencies for low traffic ships and coast telegraph allocations as follows (see Document No. DT/51) :

4231	instead of	4231.5 kc/s
6345.5	instead of	6344
8459.5	instead of	8460
12 689	instead of	12 689.5
16 917	instead of	16 917.5
22 374	instead of	22 372

b) Adjust the limits for coast stations as presently contained in No. 453 as follows :

4231 - 4361	instead of	4238	- 4368 kc/s
6345.5-6513.5	instead of	6357	- 6525
8459.5-8728.5	instead of	8476	- 8745
12 589 - 13 105	instead of	12 714	- 13 130
16 917 - 17 255	instead of	16 952	- 17 290
22 374 - 22 624	_instead of	22 400	- 22 650



c) Develop recommended minimum separation between the highest assignable working frequency for low traffic ships and the first assignable coastal telegraph frequency :

> 4 Mc/s 3.4 kc/s 6 3.6 8 3.8 12 4.3 16 4.7 22 5.2

d) As far as practicable, coast telegraph stations should operate no closer than 3 kc/s below the lowest coast telephone carrier frequency.

It is recommended that the information contained in the foregoing paragraph be forwarded to Committee 4 for use as appropriate. It is further recommended that the coast telegraph stations vacate the designated calling channels, Series No. 2 of Section B, as a matter of priority.

> W. DEAN Jr. Chairman

Annex : 1

APPENDIX 17

1.	APPENDIX 17 -	Preamble (Page 1)
2.	SECTION A	Table of Double Sideband Transmitting Frequencies in kc/s (Page 2)
3.	SECTION B -	Table of Duplex Single Sideband Carrier Frequencies in kc/s (Page 3)
4.	SECTION C -	Table of Simplex Single Sideband Carrier Frequencies in kc/s (Page 4)
5.	APPENDIX 17A -	- Technical characteristics

DRAFT

APPENDIX 17

Channelling of the Maritime Mobile Radiotelephone Bands between

4000 and 23 000 kc/s

(see Article 35)

1.

Channelling arrangements for the frequencies to be used by coast and ship stations in the bands allocated to the maritime mobile radiotelephone service are set out in three sections as follows :

Section A - Table of Duplex Double Sideband Transmitting frequencies (in kc/s).

- Section B Table of Duplex Single Sideband Transmitting Frequencies (carrier) (in kc/s).
- Section C Table of Simplex Single Sideband Transmitting Frequencies (carrier) (in kc/s).

2. The technical characteristics for SSB transmitters operating in the bands allocated for radiotelephone use by the maritime mobile service between 4000 and 23 000 kc/s, are given in Appendix 17A.

3. One or more series of frequencies from Sections A or B are assigned to each coast station which uses these frequencies associated, as far as possible, in pairs, each pair comprises a transmitting and a receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, as far as possible, harmful interference between the services of different coast stations.

- 4. Administrations may assign the frequencies shown in Section C to ships of any category, according to traffic requirements, for ship to shore and inter-ship working. Coast stations may also use these frequencies for simplex working provided that one kilowatt peak envelope power is not exceeded.
- 5. The frequencies of series number 2 in Section B are allocated for calling purposes. The remaining frequencies in Sections A, B and C are working frequencies. Use of the double sideband calling frequencies 8269, 12 403.5, 16 533.5 and 22 074 kc/s may continue until / 7.

6. a) Stations utilizing double sideband emissions shall operate only on the frequencies in Section A / in accordance with paras and 7.

b) Stations utilising single sideband emissions shall operate on the carrier frequencies shown in Sections B and C in conformity with the technical characteristics contained in Appendix 17A. The upper sideband mode shall always be employed.

c) Stations employing the single sideband mode shall only use A3A and A3J emissions / in accordance with paras ... /. During the transition period, A3H emission / in accordance with paras ... / is permitted only on those carrier frequencies shown in Section B which are coincident with, or within 100 cycles of, the frequencies shown in Section A.

d) During the transition period, assignments to stations utilizing independent sideband emissions shall be considered to be in accordance with the Table in Section A if the necessary bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for double sideband emissions.

7. If an administration authorizes the use of frequencies other than those contained in Sections A, B and C, its radiotelephone service shall not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequencies in accordance with the appended Tables.

SECTION A

	· 4 Mc/s Band		8 Mc/s Band		12 Mc/s Band		16 Mc/s Band		22 Mc/s Band	
Series No.	Coast station frequency	Ship station frequency								
<u>1</u>	4 371.1	4 066.1	8 748.1	8 198.1	13 133.5	12 333.5	17 293.5	16 463.5	22 653.5	22 003.5
2	4 377.4	4 072.4	8 754.4	8 204.4	13 140.5	12 340.5	17 300.5	16 470.5	22 660.5	22 010.5
3	4 383.8	4 078.8	8 760.8	8 210.8	13 147.5	12 347.5	17 307.5	16 477.5	22 667.5	22 017.5
4	4 390.2	4 085.2	8 767.2	8 217.2	13 154.5	12 354.5	17 314.5	16 484.5	22 674.5	22 024.5
5	4 396.6	4 091.6	8 773.6	8 223.6	13 161.5	12 361.5	17 321.5	16 491.5	22 681.5	22 031.5
6	4 403.0	4 098.0	8 780.0	8 230.0	13 168.5	12 368.5	17 328.5	16 498.5	22 688.5	22 038.5
7	4 409.4	4 104.4	8 786.4	8 236.4	13 175.5	12 375.5	17 335.5	16 505.5	22 695.5	22 045.5
8	4 415.8	4 110.8	8 792.8	8 242.8	13 182.5	12 382.5	17 342.5	16 512.5	22 702.5	22 052.5
9	4 422.2	4 117.2	8 799.2	8 249.2	13 189.5	12 389.5	17 349.5	16 519.5	22 709.5	22 059.5
10	4 428.6	4 123.6	8 805.6	8 255.6	13 196.5	12 396.5	17 356.5	16 526.5	22 716.5	22 066.5
11	4 434.9	4 129.9	8 811.9	8 261.9						

Table of Duplex Double Sideband Transmitting Frequencies (in kc/s)

Series	4 Mc/s Band 6 Mc/s Band		s Band	8 Mc/s Band		12 Mc/s Band		16 Mc/s Band		22 Mc/s Band		
Series No.	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship
1	4361.6	4063.0	6515.4	6200.8	8729.0	8195.0	13109.0	12330.0	17255.0	16460.0	22625.5	22000.0
2*)	4364.7	4066.1	6518.6	6204.0	8732.1	8198.1	13112.5	12333.5	17258.5	16463.5	22629.0	22003.5
3	4367.8	4069.2	6521.8	6207.2	8735.2	8201.2	13116.0	12337.0	17262.0	16467.0	22632.5	22007.0
4	4371.0	4072.4			8738.4	8304.4	13119.5	12340.5	17265.5	16470.5	22636.0	22010.5
5	4374.2	4075.6			8741.6	8207.6	13123.0	12344.0	17269.0	16474.0	22639.5	22014.0
0 7	4377.4	4078.8 4082.0			8748.0	8210.8 8214.0	13126.5	12347.5	17272.5	16477.5	22643.0	22017.5
8	4383.8	4085.2			8751.2	8217.2	13130.0	12351.0 12354.5	17276.0	16481.0	22646.5	22021.0
9	4387.0	4088.4			8754.4	8220.4	13137.0	12358.0	17279.5	16488.0	22650.0	22024.5
10	4390.2	4091.6			8757.6	8223.6	13140.5	12361.5	17286.5	16491.5	22657.0	22028.0
10	4393.4	4094.8			8760.8	8226.8	13144.0	12365.0	17290.0	16495.0	22660.5	22035.0
12	4396.6	4098.0			8764.0	8230.0	13147.5	12368.5	17293.5	16498.5	22664.0	22038.5
13	4399.8	4101.2			8767.2	8233.2	13151.0	12372.0	17297.0	16502.0	22667.5	22042.0
-/ 14	4403.0	4104.4			8770.4	8236.4	13154.5	12375.5	17300.5	16505.5	22671.0	22045.5
15	4406.2	4107.6			8773.6	8239.6	13158.0	12379.0	17304.0	16509.0	22674.5	22049.0
16	4409.4	4110.8			8776.8	8242.8	13161.5	12382.5	17307.5	16512.5	22678.0	22052.5
17	4412.6	4114.0			8780.0	8246.0	13165.0	12386.0	17311.0	16516.0	22681.5	22056.0
18	4415.8	4117.2			8783.2	8249.2	13168.5	12389.5	17314.5	16519.5	22685.0	22059.5
19	4419.0	4120.4			8786.4	8252.4	13172.0	12393.0	17318.0	16523.0	22688.5	22063.0
20	4422.2	4123.6			8789.6	8255.6	13175.5	12396.5	17321.5	16526.5	22692.0	22066.5
21	4425.4	4126.8			8792.8	8258.8	13179.0	12400.0	17325.0	16530.0	22695.5	22070.0
22	4428.6	4130.0			8796.0	8262.0	13182.5	12403.5	17328.5	16533.5	22699.0	22073.5
23	4431.8	4133.2			8799.2	8265.2	13186.0	12407.0	17332.0	16537.0	22702.5	22077.0
24	4434.9	4136.3			8802.4	8268.4	13189.5	12410.5	17335.5	16540.5	22706.0	22080.5
					8805.6	8271.6	13193.0	12414.0	17339.0	16544.0	22709.5	22084.9
25 26					8808.8	8274.8	13196.5	12417.5	17342.5	16547.5	22713.0	22087.5
27					8812.0	8278.0			17346.0	16551.0	22716.5	22091.0
28									17349.5	16554.5		
29									17353.0	16558.0		
30									17356.5	16561.5		

Table of Duplex Single Sideband Transmitting Frequencies (carrier) (in kc/s)

*) The frequencies in Series No. 2 are designated as calling frequencies. (See No. 1224 and 1353).

Page 8

SECTION C

<u>Table of Simplex Single Sideband</u> Transmitting Frequencies (carrier)- (in kc/s)

Band Mc/s	Limits	Radiotelephone (single sideband) upper sideband carrier frequencies *		Limits
4	4139.5	4139•5		4142.5
6	6210.4	6210.4 and 6213.5 2 frequencies spaced 3.1		6216,5
8	8281.2	8281.2 and 8284.4 2 frequencies spaced 3.2		8288
12	12421	12421 12428 3 frequencies spaced 3.5		12431.5
16	16565	16565 16572 3 frequencies spaced 3.5		16576
22	22094.5	22094.5 22108.5 5 frequencies spaced 3.5	·	22112

* Frequencies in this category may be assigned also to coast stations in accordance with the provisions of No. 1357 (proposal No. USA/16 (9)).

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/82-E 14 October 1967 Original : French, English, Spanish

WORKING GROUP 6C

DRAFT

FOURTH REPORT OF WG 6C TO COMMITTEE 6 (OPERATION)

DRAFT RESOLUTION

Relating to the Introduction of a General Radiocommunication Operator's Certificate for the Maritime Mobile Service

Working Group 6C <u>agreed</u> to recommend the adoption of the attached Draft Resolution.

F. WIEFELSPUTZ. Chairman

Annex : 1



 \sqrt{ex} DT/53

ANNEX

DRAFT RESOLUTION

Relating to the Introduction of a General Radiocommunication Operator's Certificate for the Maritime Mobile Service

The World Administrative Radio Conference, Geneva, 1967,

considering

that Article 23 of the Radio Regulations, Geneva, 1959, provides for two classes of certificate as well as a special certificate for radiotelegraph operators;

that many radiotelegraph operators are the holders of the second class certificates;

that it is doubtful if the higher morse speed qualification of the first class certificate would be necessary in the future;

<u>a</u>)

<u>a</u>)

b)

<u>c)</u>

that there is a future need for a greater emphasis on the practical maintenance of radiocommunication equipment in service;

is of the opinion

1.

that administrations should consider the desirability of replacing the present two classes of radiotelegraphic certificate with a general class of certificate for radiocommunication operators more closely related to future needs;

2.

that in considering the introduction of such a certificate, administrations take into account the certificate qualification as appended hereto in Annexes 1, 2 and 3; and in connection therewith,

[ex DT/53] cont.

1.

2.

3.

4.

5.

resolves

that such administrations as may wish to issue a general certificate are authorized to do so,

that the general radiocommunication operator's certificate shall maintain at least the practical technical standards of present first class certificates,

that the Morse code speed shall not be less than in No. 884 of the Radio Regulations,

that, for the purposes of the Radio Regulations, such general certificate shall be recognized as an alternative to present first and second class certificates,

that countries which do not issue the general certificate and which employ operators of a foreign nationality may decide upon the status of the general radiocommunication operator's certificate in so far as employment in their own ships is concerned.

<u>Annexes</u> : 3

Annex 1

Conditions for the issue of the radiocommunication operator's general

certificate - Maritime

1. The radiocommunication general certificate is issued to candidates who have given proof of the technical and professional knowledge and qualifications enumerated below.

2. Knowledge of the principles of electricity and the theory of radio sufficient to meet the requirements of paragraphs 3, 4 and 5 below.

3. Theoretical knowledge of marine radiotelegraph and radiotelephone transmitters and receivers; marine aerial systems; automatic alarm devices; radio equipment for lifeboats and other survival craft; direction-finding equipment; together with all auxiliary items, including power supply (such as motors, alternators, generators, inverters, rectifiers, and accumulators) with particular reference to maintaining the equipment in service.

4. Practical knowledge of the operation, adjustment and maintenance of the apparatus mentioned in paragraph 3) above, including the taking of direction-finding bearings and knowledge of the principles of the calibration of radio direction-finding apparatus.

5. Practical knowledge necessary for the location and remedying (with the means available on board) of faults which may occur during a voyage, in the apparatus mentioned in paragraph 3) above.

6. Ability to send correctly by hand and to receive correctly by ear, in the Morse Code, code groups (mixed letters, figures and punctuation marks), at a speed of sixteen groups a minute, and a plain language text at the speed of twenty words a minute. Each code group shall comprise five characters, each figure or punctuation mark counting as two characters. The average word of the text in plain language shall contain five characters. The duration of each test of sending and receiving shall be, as a rule, five minutes.

7. Ability to send correctly and to receive correctly by telephone.

8. Knowledge of the Regulations applying to radiocommunications, knowledge of the documents relating to charges for radiocommunications, knowledge of the provisions of the Convention for the Safety of Life at Sea which relate to radio.

9. A sufficient knowledge of world geography, especially the principal shipping and the most important telecommunication routes.

10. Knowledge of one of the working languages of the Union. Candidates should be able to express themselves satisfactorily in that language, both orally and in writing. Each administration shall decide for itself the language or languages required.

Annex 2

Qualifying service

1. An operator holding a radiocommunication operator's general certificate may be authorized to embark as chief operator of a ship station of the fourth category (see No. 932 of the Radio Regulations).

2. Before becoming chief operator of a ship station of the second or third category (see Nos. 931 and 931A of the Radio Regulations) an operator holding radiocommunication operators general certificate shall have had at least six months experience as operator of which at least three months shall have been on board ship.

3. Before becoming chief operator of a ship station of the first category (see No. 930 of the Radio Regulations) an operator holding a radiocommunication operator's general certificate shall have had at least two years experience as operator on board ship or in a coast station.

<u>Note</u>: This annex was <u>agreed</u> by WG 6C subject to revision, if necessary, after proposals concerning Nos. 914-918 of the Radio Regulations have been considered.

Annex 3

Conditions of Employment of Holders of Radiocommunication Operator's

General Certificates on Ship Stations

The holder of a radiocommunication operator's general certificate may carry out the radiotelegraph or radiotelephone service of any ship station and, having regard to the requirements of paragraphs 1, 2 and 3 of Annex 2, may act as chief or sole operator on any ship station in the circumstances detailed in Nos. 914 - 918 of the Radio Regulations.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/83-E 14 October 1967 Original : English

WORKING GROUP 5A

DRAFT

SIXTH REPORT OF WORKING GROUP 5A TO COMMITTEE 5

I. Article 35

No. 1336A

The working group adopted the new text which appear in Annex I. However, the <u>delegation of Canada</u> reserved its right to raise this question again when this text is submitted for approval. Furthermore, the decision concerning the prohibition of using class of emission A7H after the transition period was left pending at the request of the <u>delegate of France</u>.

No. 1347

The working group considered a proposal submitted by Denmark in Document No. 235, for the deletion of this number. While considering that from the point of view of the utilization of the frequencies this number should be deleted, it decided to refer this proposal to Committee 6 for final decision.

II. Use of a frequency in the MF bands for search and rescue operations

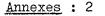
The working group decided to mention in Article 35 that frequency 3023.5 kc/s may be used by stations in the maritime mobile service for search and rescue operations in accordance with the provisions of paragraph 4 of No. 27/196 of Appendix 27.

Consequently, it adopted the new text of No. 1326A which appears in Annex I.

III. Appendix 3

The working group decided to modify Appendix 3 as indicated in Annex II.

P. AAKERLIND Chairman



ARCHIVES U.I.T. GENEVE

Document No. DT/83-E Page 2

ANNEX I

Article 35

ADD		A (bis) Search and rescue
ADD	1326A / * 7	The frequency 3023.5 kc/s may be used for inter- communication between mobile stations engaged in coordinated Search and Rescue operations including communication between these stations and particular land stations, in accordance with the provisions of paragraph 4 of No. 27/196 of the Frequency Allotment Plan for the Aeronautical (R) Service (Appendix 27).
ADD	1336A	(1 bis) Coast stations authorized for radio- telephony on one or more frequencies other than 2182 kc/s in the authorized bands between 1605 and 2850 kc/s shall be able to transmit class A3 emissions or classes of emissions A3H, A3A and A3J. Transmissions with classes A3 / and A3H / are not authorized after / the end of the transition period /.

Document No. DT/83-E Page 3

ANNEX II

_ _ _ _ _

is 100 c/s.

-

_ _ _

Appendix 3

	Band : 1605 to 4000 kc/s		
MOD	 Land stations power 200 W or less power above 200 W 	100 50	100 j) 50 j)
MOD	3. Mobile stations a) Ship stations	200	200 k)

Notes Referring to Table of Frequency Tolerances

	• •		
ADD	j) is 20 c/s	For coast radiotelephone SSB transmitters the tolerand	ce
ADD	k)	For ship radiotelephone SSB transmitters the tolerance	e

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/84-E 14 October 1967 Original: English

WORKING GROUP 5A

REPORT OF THE WORKING GROUP AD HOC 5A TO WORKING GROUP 5A

(Reference Document No. 183)

Participants : Denmark

France Federal.Republic of Germany Norway United Kingdom United States of America

The ad hoc group, taking into account :

- the reasons given for the proposal, to add to the Radio Regulations an additional paragraph No. 1336A, as contained in the reference document;
- the unanimous support for this proposal in Working Group 5A, the operational requirements and principles, set forth in this document;
- the doubts expressed by some of the delegations as to the feasibility of finding the necessary frequencies;

examined the possibilities of designating frequencies to meet the requirements in question.

2.

1.

The ad hoc group considered :

a) that frequencies in the available MF range are not exclusively allocated to the Maritime Mobile Service;

b) that, as a matter of fact, certain frequencies in this band are assigned to stations of the maritime mobile service in one Region, but that the same frequencies are not necessarily assigned to stations of this Service in other Regions; c) that, therefore, under these circumstances, a regional approach to the problem is desirable:

d) that no other frequencies, other than those already assigned to stations of the maritime mobile service, may be obtained;

e) that, as a result of the reduction of the guard band for the international calling and emergency frequency 2182 kc/s, two additional frequencies have been obtained - viz. carrier frequency 2170 and 2190.5 kc/s which may be used on a world wide basis;

f) that, however, the use of these frequencies by coast stations as working frequencies for public correspondence and the exchange of telegrams should be avoided;

g) that after the conversion period the lower derived sidebands of a number of selected frequencies could be considered, on a regional basis, for these purposes, such as :

- i) the lower derived sidebands of the international ship to shore working frequencies (see RR Nos. 1344, 1345 and 1351);
- ii) the lower derived sidebands of certain working frequencies assigned to coast stations, selected regionally on a common denominator basis.

3.

The ad hoc group further considered :

a) that primarily, world-wide or regionally assigned international shore to ship working frequencies should be designated to coast stations to operate with ship stations of another nationality, but that the use of such frequencies should only be authorized for communication with ship stations which are unable to receive the normal working frequencies of the coast station concerned;

b) that it is important that messages concerning the safety of shipping are passed to these ship stations on these frequencies after being announced on 2182 kc/s;

c) that an early assignment of these frequencies during the conversion period is not of vital importance, as these ship stations may still be equipped with DSB receivers until the end of the conversion period;

d) that due to the geographical location of coast stations in a congested area, such as in parts of Region 1, an adequate number of frequencies should be available so that harmful interference should be reduced to the minimum;

Document No. DT/84-E Page 3

e) that one frequency should be available on a world-wide basis, in particular for the purposes mentioned in paragraph **3b**;

f) that for operational and economical reasons, no more than three additional frequencies should be available on a regional basis for congested areas;

g) that an examination by the group of a tabulation, provided by the I.F.R.B., revealed that:

neither for the purpose referred to in paragraph 3e, nor for the purpose referred to in paragraph 3f were any frequencies found to be available.

4. With regard to proposal 183(37) from the Netherlands, the ad hoc Group concludes:

a) that the use of the frequencies, indicated in paragraph 2e for public correspondence and the exchange of telegrams should be avoided;

b) that no frequencies are available for the purposes referred to in paragraph 3e and 3f.

5. The ad hoc Group submits the attached Recommendation for the consideration of the Working Group.

Document No. DT/84-E Page 4

DRAFT RECOMMENDATION

The World Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service (Geneva, 1967),

noting

<u>a</u>)

b)

c)

that on small ships, equipped with a single sideband installation, a crystal controlled spot frequency receiver is essential in order to facilitate correct tuning;

that such ships, which make international voyages and communicate with coast stations of another nationality, need to be provided with a considerable number of additional crystals;

that to reduce the number of single sideband receiver crystals required, ensures that the cost of single sideband receivers is kept to an economical level;

considering

<u>a)</u>.

b)

that international working frequencies should be assigned to all coast stations for working with ships of another nationality:

that an examination_of_the Master International Frequency Register has revealed that neither on a world-wide nor on a regional basis any frequencies appear to be available for common use by all coast stations for working with ships of another nationality;

recommends

that administrations study this matter at the earliest opportunity with a view to formulating proposals for consideration by the next Administrative Radio Conference competent to deal with the matter:

2.

1.

that, in the meantime, countries should explore the possibility of concluding regional, bilateral or multilateral arrangements to provide common working frequencies for coast stations for working with ship stations of another nationality.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/85-E 14 October 1967 <u>Original</u> : English

WORKING GROUP 5B

.

REPORT OF 6204 kc/s AD HOC GROUP TO WG 5B

The 6204 kc/s ad hoc Working Group is unanimously of the opinion that the use of the frequency 6204 kc/s should continue to be as presently indicated in Radio Regulation No. 1353.

B. MADELEY

Chairman



INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/86-E 16 October 1967 Original : English/French/ Spanish

COMMITTEE 4

DRAFT

THIRD REPORT OF COMMITTEE 4

- 1. The texts in <u>Annex 1</u>, concerning the provisions of Article 32, Section V, of the Radio Regulations mentioned below, have been <u>adopted</u> <u>unanimously</u> by Committee 4.
 - Nos.: 1145, 1146, 1148, 1148A, 1149, 1150, 1150A, 1150B, 1151 to 1154, 1158 to 1180, 1180A, 1180B, 1181 to 1191, 1191A, 1191B, 1191D and 1192 to 1202.
- 2. The text in <u>Annex 2</u>, concerning Article 32, Section V, No. 1191C, of the Radio Regulations, has been <u>adopted by a majority</u>. The delegations of the <u>Hungarian People's Republic</u> and of the <u>Union of Soviet Socialist</u> <u>Republics</u> have reserved their right to take the matter to the Plenary Meeting.
- 3. Draft Resolutions in <u>Annexes 2 and 3</u> have been <u>unanimously adopted</u> by Committee 4.

F.G. PERRIN

Chairman of Committee 4

Annexes : 3



ANNEX 1

NOC		Article 32 Section V.
		Bands between 4 000 and 27 500 kc/s
NOC	· ·	A. <u>General provisions</u>
MOD	1145	§ 17. (1) Mobile radiotelegraph stations equipped to operate in the bands specified in Nos. 1174, 1192 and 1196 shall employ only class Al emission. In the bands specified in No. 1192, stations may use manual or automatic Al Morse telegraphy at speeds not exceeding 40 bauds. Survival craft stations may use class A2 or A2H emissions in these bands (see Nos. 994 and 997).
MOD	1146	(2) Mobile stations equipped to operate in the frequency bands authorized to ships for wide-band telegraphy, facsimile and special transmission systems may use any class of emissions provided that such emissions can be contained within the wide-band channels
		indicated in \angle Appendix 15 <u>A</u> $$. However, manual Morse and telephony are excluded, except for circuit alignment purposes.
MOD	1148	(4) Coast radiotelegraph stations employing single channel class Al or Fl emission operating in the maritime mobile exclusive bands between 4 000 and 27 500 kc/s shall at no time use mean power in excess of the following :
		BandMaximum mean power4 Mc/s5 kW

5 kW

lO kW

15 kw

15 kW

15 kW

6 Mc/s

8 Mc/s

12 Mc/s

16 Mc/s

22 Mc/s

	ADD	1148a	(5) Coast radiotelegraph stations employing multi- channel telegraph emissions operating in the maritime mobile exclusive bands between 4 000 and 27 500 kc/s shall at no time use a mean power in excess of 2.5 kW per 500 c/s bandwidth.
	MOD	1149	$\frac{1}{5}$ 18. (1) Each of the bands reserved for ship radio- telegraph stations, except for the band 25 070-25 110 kc/s, shall be divided into six parts, beginning at the low frequency end :
	NOC	1150	
	ADD	1150A	aA) a band of working frequencies for oceanographic data transmissions;
	ADD	1150B	aB) a band of working frequencies for ship stations using narrow-band direct- printing telegraph and data systems.
	NOC	1151-1153	
	MOD	1154	(2) The bands 25 070-25 082.5 kc/s and 25 082.5-25 110 kc/s are allocated, respectively, for calling and working by ship radiotelegraph stations employing Al or Fl emissions on ships of all categories. (See No. 224.)
	MOD	1158	(3) The arrangement of the frequencies in the ship radiotelegraph bands is illustrated graphically in $\overline{Appendix 15A}$.
	NOC	1159-1172	
· · ·	MOD	1173	(3) Working frequencies assigned to coast stations using the bands between 4 000 and 27 500 kc/s are included within the following band limits : 4 231.5 to 4 361.5 kc/s 6 344 to 6 512 kc/s
			8 460 to $8 729$ kc/s

12 689.5 to 13 105.5 ke/s 16 917.5 to 17 255.5 ke/s

22 372 to 22 622 kc/s (See No. 453.1)

D. Assignment of Frequencies to Mobile Stations

1. Calling Frequencies of Ship Stations

MOD

1174

1175

1177

§ 29. (1) The calling frequencies assigned to ship stations are included within the following band limits :

4 178	to	4	187	kc/s
6 267	to	6	280.5	kc/s
8 356	to	8	374	kc/s
12 534	to	12	561	kc/s
16 712	to	16	748	kc/s
22 222.5	to	22	267.5	kc/s
25 070	to	25	082.5	kc/s

(2) In the band 4 178 to 4 187 kc/s, the calling frequencies are spaced 0.5 kc/s apart. The extreme ~ frequencies assignable are 4 178.5 and 4 186.5 kc/s as indicated in \angle Appendix 15A \angle .

(3) In each of the other maritime mobile service bands between 4 000 and 18 000 kc/s, the calling frequencies shall be in harmonic relationship with those in the band 4 178 to 4 187 kc/s.

In the bands 22 222.5 to 22 267.5 and 25 070 to 25 082.5 kc/s the spacing of calling frequencies is 2.5 kc/s and 1.5 kc/s respectively. The extreme frequencies assignable are 22 225 and 22 265 kc/s and 25 073.5 and 25 081 kc/s, respectively.

š 30. The administration to which a ship station is subject shall assign to it a series of calling frequencies including one frequency in each of the bands in which the station is equipped to transmit. Administrations may, however, assign a supplementary series of calling frequencies for use in the event of interference. In the bands between 4 000 and 18 000 kc/s, the frequencies assigned to each ship station shall be in harmonic relationship. Each administration shall take the necessary steps to assign such harmonic series of calling frequencies to ships in accordance with an orderly system of rotation so as to distribute these frequencies uniformly throughout the calling bands. The same system of uniform distribution shall be applied in the assignment of calling frequencies in the bands 22 222.5 to 22 267.5 kc/s and 25 070 to 25 082.5 kc/s.

MOD

MOD 1176

MOD

1178 § 31. (1) One calling frequency in each of the calling bands indicated in No. 1174 (except in the 25 Mc/s band) shall be reserved as far as possible for the use of aircraft desiring to communicate with stations of the maritime mobile service. These frequencies are the following: 4 182; 6 273; 8 364; 12 546; 16 728 and 22 245 kc/s.

2.

\$ 32.

§ 32A.

apart.

/Appendix 15A7.

NOC 1179

1180

1180A

1180B

NOC

MOD

NOC

ADD

ADD

MOD

§ 32B. The working frequencies for ship stations using narrow-band direct-printing telegraph and data systems are spaced 0.5 kc/s apart in the 4, 6 and 8 Mc/s bands and 1.0 kc/s apart in the 12, 16 and 22 Mc/s bands. The frequencies assignable are shown in <u>Appendix 15A</u>.

Working Frequencies of Mobile Stations

In all bands the working frequencies for ship

In all bands, the frequencies assignable for

a) Channel Spacing and Assignment of Frequencies

stations equipped to use wide-band telegraphy, facsimile and special transmission systems are spaced 4 kc/s apart. The frequencies assignable are shown in /Appendix 15A7.

oceanographic data transmissions are spaced 0.3 kc/s

The frequencies assignable are shown in

1181 $\frac{5}{5}$ 33. (1) The working frequencies for high traffic ships in the band 4 172.25 to 4 178 kc/s are so spaced as to provide channels 0.5 kc/s wide, the extreme frequencies assignable being 4 172.5 and 4 177.5 as shown in /Appendix 15A7.

MOD 1182 (2) In the band 4 187 to 4 231.5 kc/s, the working frequencies of low traffic ships are spaced 0.5 kc/s apart, the extreme frequencies assignable being 4 187.5 and 4 229 kc/s as indicated in <u>Appendix 15A</u>.

MOD 1183 § 34. The working frequencies assigned to each ship station in the 6, 8, 12 and 16 Mc/s band shall be harmonically related to those assigned in the 4 Mc/s band, in all cases where such a relationship is provided in <u>(Appendix 15A</u>).

MOD	1184	§ 35. In the 22 Mc/s band, which is not in harmonic relationship with the other bands, the frequencies are spaced as follows, as shown in <u>Appendix 15A</u> .
MOD	1185	a) in the high traffic band, the working frequencies are spaced 2 kc/s apart, the extreme frequencies assignable being 22 187 and 22 221 kc/s;
MOD	1186	b) in the low traffic band, the working frequencies are spaced 2.5 kc/s apart, the extreme frequencies assignable being 22 270 and 22 370 kc/s.
MOD	1187	§ 36. In the 25 Mc/s band, the frequency separation shall be 1.5 kc/s. The extreme frequencies which may be assigned are, as shown in $\overline{\text{Appendix 15A}}$: 25.084 and 25.106.5 kc/s.
NOC		b) <u>Working Frequencies for Ship Stations using</u> <u>Wide-band Telegraphy, Facsimile and</u> <u>Special Transmission Systems</u>
MOD	1188	\S 37. The working frequencies assigned to ship stations using wide-band telegraphy, facsimile and special transmission systems are included within the following band limits :
		4 142.5 to 4 162.5 kc/s 6 216.5 to 6 244.5 kc/s 8 288 to 8 328 kc/s 12 431.5 to 12 479.5 kc/s 16 576 to 16 636.5 kc/s 22 112 to 22 160.5 kc/s
MOD	1189	§ 38. (1) Each administration shall assign to each ship station under its jurisdiction and employing wide-band telegraphy, facsimile and special transmission systems, one or more series of working frequencies designated in \angle Appendix 15A \angle . The total number of series assigned to each ship shall be determined by traffic requirements.
NOC	1190	

(3) However, within the limits of the bands given in No. 1188 administrations may, to meet the needs of specific systems, assign frequencies in a different manner from that shown in <u>Appendix 15A</u>. Nevertheless, administrations shall take into account, as far as possible, the provisions of <u>Appendix 15A</u> concerning channelling and <u>4</u> kc/s spacing.

ADD

MOD

bA) <u>Working Frequencies for Oceanographic</u> Data <u>Stations</u>

ADD 1191A

§ 38A. Frequencies assignable to ship stations for oceanographic data transmissions are included within the following band limits :

4	162.5	to	.4	166	kc/s
6	244.5	to	6	248	kc/s
8	328	to	8	331.5	kc/s
12	479.5	to	12	483	kc/s
16	636.5	to	16	640	kc/s
22	160.5	to	22	164	kc/s

ADD

ADD

1191B

1191C

1191D

\$38B. The frequency bands in 1191A may also be used by buoy stations for oceanographic data transmission and by stations interrogating these buoys.

§ 38C.(1) Each administration may assign to each type of station in No. 1191A and 1191B under its jurisdiction one or more of the assignable frequencies designated in \angle Appendix 15A7.

bB) <u>Working Frequencies for Ship Stations using</u> <u>Narrow-band Direct-printing Telegraph</u> and Data Systems

ADD

§ 38D. Working frequencies assigned to ships using narrow-band direct-printing telegraph and data systems are included within the following band limits :

4	166	to	4	172.25	kc/s
6	248	to	6	258.25	kc/s
8	331.5	to	8	341.75	kc/s
12	483	to	12	503.25	kc/s
16	640	to	16	660.5	kc/s
22	164	to	22	184.5	kc/s

c) Working Frequencies for High Traffic Ships

MOD 1192

§ 39. The working frequencies assigned to high traffic ships are included within the following band limits :

4	172.25	to	Ц	178	kc/s
6	258.25	to	6	267	kc/s
8	341.75	to	8	356	kc/s
12	503.25	to	12	534	kc/s
16	660:5	to	16	712	kc/s
55	184.5	to	22	222.5	kc/s

MOD 1193

 $\frac{1}{5}$ 40. (1) Each administration shall assign to each high traffic ship within its jurisdiction two or more series of working frequencies shown in <u>Appendix 15A</u> vessels of this class. The total number of series assigned to each ship should be determined by the anticipated traffic volume.

NOC 1194-1195

d) Working Frequencies for Low Traffic Ships

MOD 1196

 $\frac{\$}{\$}$ 42. Working frequencies assigned to low traffic ships shall be included within the following band limits :

- 4	187	to	4	231.5	kc/s
6	280.5	to	6	344	kc/s
8	374	to	8	460	kc/s
12	561	to	12	689.5	kc/s
-16	748	to	16	917.5	kc/s
22	267.5	to	22	372	kc/s

MOD

MOD

1197

1198

§ 43. (1) In each of the low traffic bands, the assignable frequencies are divided into two equal Groups A and B, Group A comprising the frequencies in the lower half of the band and Group B the frequencies in the upper half (see / Appendix 15A /).

(2) Each administration shall assign to each of its low traffic ships two series of working frequencies, one in Group A and the other in Group B. In each band, the two working frequencies are separated, as far as practicable, by half the width of the assignable band

MOD 1199 (3) For example, if the frequency assigned to a ship station is the lowest frequency assignable in Group A, the other should be the lowest frequency assignable in Group B. If one of the frequencies assigned is the second frequency from the low frequency end of Group A, then the other frequency assigned should be the second frequency from the low frequency end of Group B, etc. NOC 1200 NOC 1201 1202 MOD The working frequencies in the bands specified in No. 1191D for narrow-band direct-printing telegraph and data systems, and in the band 25 082.5 to 25 110 kc/s may be assigned to ships of all categories.

Document No. DT/86-E Page 10.

ANNEX 2

PRAFT RESOLUTION No.

Relating to the establishment of a coordinated world-wide system for the collection of data relating to oceanography

The World Administrative Radio Conference, Geneva, 1967,

considering

a)

b)

<u>c</u>)

<u>n)</u>

<u>e</u>)

<u>f</u>),

<u>g</u>)

the expressed desire for the establishment of a coordinated world-wide system for the collection of data relating to ceanography;

that a frequency band has been designated in each of the six high frequency bands allocated exclusively to the maritime mobile service for use in the collection of data relating to oceanography in accordance with /Appendix 15A revised/;

that use of these frequencies with maximum effectiveness is dependent upon cooperation and coordination among administrations;

that certain administrations expressed the desire that a coordinated world-wide system for the transmission of data relating to oceanography be established on the basis of a coordinated plan in the bands allocated by this Conference;

that, however, certain other administrations wish to use in the near future stations for the collection of data relating to oceanography within the framework of decisions taken on this matter by the present Conference;

that, consequently, a coordinated programme for the collection of data relating to oceanography should be established using the frequency bands referred to in b) above; and

that the Intergovernmental Oceanographic Commission (I.O.C.) and the World Meteorolegical Organization (W.M.O.) have been in consultation since 1962 with respect to cooperative efforts in the collection of data relating to oceanography (e.g. the W.M.O./I.O.C. Panel of Experts on Coordination of Requirements, Geneva, 19-21 July 1967);

resolves

that the I.O.C. and W.M.O. be invited to develop jointly, in consultation with the I.F.R.B., and in consultation with I.T.U. administrations as appropriate, a coordinated plan designed to meet existing and future requirements of all interested I.T.U. Member countries, for use by stations in the collection of data relating to oceanography in a world-wide system, within the framework of provisions made by the W.A.R.C. for such a system,

- this plan to include the geographical distribution of oceanographic stations, their system of operation, the deployment of frequencies in the system and the manner in which oceanographic information is to be transmitted;

that administrations be encouraged to assign frequencies in conformity with the plan and the recommendations of I.O.C. and W.M.O., for the portion of the world-wide system over which they have jurisdiction;

that the I.O.C. and W.M.O. be invited further to assume jointly the responsibility, in consultation with the I.F.R.B., for keeping such a plan current, in the light of changing requirements for data relating to oceanography; and

that the plan developed under points 1 and 3 above shall be considered at the next Administrative Radio Conference competent to deal with matters relative to the maritime mobile service, to determine what, if any, changes appear necessary to improve its effectiveness.

2.

3.

4.

1.

Tocument No. DT/86-E Page 12

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ANNEX 3

DRAFT RESOLUTION No. ...

Relating to the manner in which the I.F.R.B. shall treat notifications dealing with frequency assignments to oceanographic stations

The World Administrative Radio Conference, Geneva, 1967,

considering

that the Conference had adopted Resolution No. ..., relating to the establishment of a coordinated world-wide system for the collection of data relating to oceanography; and

<u>b</u>)

a)

that the I.F.R.B. would require instructions relative to the notification and registration of assignments to oceanographic stations;

resolves

that the I.F.R.B. be instructed to accept for registration only such notifications, submitted by administrations in accordance with Nos. 486 and 487, as pertain to transmitting and receiving oceanographic stations which are land based and which are in conformity with Resolution No. ..., referred to in a) above. Such notifications shall be treated by the Board in accordance with No. 505 of the Regulations. These entries in the M.I.F.R. shall not prejudice any decisions to be taken by the next Administrative Radio Conference competent to deal with the maritime mobile service.

Note to the Editorial Committee

Considering \underline{a}) and resolutive text refer to Resolution in Annex 2 to this Document.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/87-E 16 October 1967 Original : English

WORKING GROUP 5C

TENTATIVE ADVANCE OF A DRAFT SECOND REPORT OF WORKING GROUP 5C TO COMMITTEE 5

1. Modification of Appendix 19

1.1 The Working Group decided to make a reference to draft resolution (in Annex to Document No. 242)

ADD under the title : "(See Resolution $\overline{/..../}$)" and to ADD at the end of the Appendix 19, a new paragraph 5.

ADD "5. For short-distance radiotelephone traffic it must be possible to reduce the power to 1 Watt or less."

1.2 The Working Group decided that the technical characteristics for equipment with 25 kc/s channel spacing should conform with the standards laid down in a new Appendix 19A (see Annex I to this report).

1.3 The Working Group was in favour to have two appendices, leaving it to the Editorial Committee to combine them if deemed necessary.

2. Modification of Appendix 3

As a consequence of the modification of Appendix 19, the relevant tolerances in Appendix 3 must be changed (see Annex II to this report).

3. Further amendment to Appendix 18

With respect to the use of frequencies for shipping on inland waterways, the following note shall be added :

 h) the frequencies in this table may also be used for shipping on inland waterways in the conditions specified in No. 287 of Radio Regulations.



Document No. DT/87-E Page 2

4. Modification of Article 5

As a consequence, at the end of the present text of No. 287 of Radio Regulations, the following text must be added :

> "However, the frequency bands in which priority is given to the maritime mobile service, may be used for mobile radiotelephone communications on inland waterways, taking into account current usage and existing agreements between administrations, and subject to further concurrence between administrations concerned and those having services operating in accordance with the table, which may be affected."

5. Article 1

The following amendment and addition of definition have been adopted by the Working Group.

No. 37

The definition of Port Operations Service shall be amended as follows :

"Port Operations Service : A Maritime mobile service in or near a port, between coast stations and ship stations, or between ship stations, in which messages are restricted to those relating to the operational handling, the movement and the safety of ships and, in emergency, to the safety of person. However such messages which can be catered for by public correspondence nature shall be excluded."

No. 38A

Insert a new definition for Port Station : '

"Port Station: A coast station in the Port Operations Services".

E. FROMMER

Chairman of Working Group 5C

Annexes: 2

Document No. DT/87-E Page 3

ANNEX I

APPENDIX 19A

Technical characteristics for transmitters and receivers using 25 kc/s channeling in the maritime mobile service in the band 156 - 174 Mc/s. (See Articles 28 and 35 and Appendix 18A and Resolution /..../)

1. Only frequency modulation with a preemphasis of 6 db/octave (phase modulation) shall be used.

2. The frequency deviation corresponding to 100% modulation shall approach 5 kc/s as nearly as practicable. In no event shall the frequency deviation exceed \pm 5 kc/s. However, it is recognized that under certain conditions, the percentage modulation may be decreased to avoid adjacent channel interference.

3. The frequency tolerance of the transmitter for coast and ship stations shall not exceed : 10.10^{-6}

4. When transmitting on any of the frequencies designated in Table in Appendix 18, the emission of each station shall be polarized vertically at the source.

5. The audio frequency bandwidth shall be limited to 3000 c/s.

6. For short-distance radiotelephone traffic it must be possible to reduce the power to 1 Watt or less.

Document No. DT/87-E Page 4

ANNEX II

APPENDIX 3

. . .

۰ ۲				p
	Band :	100 to 470 Mc/s		
	• • •			
	2. La	nd stations :		
	a)	Coast stations	100	20 h)
	b)	· · · · · · · · ·		
	c)			
	• • •	•••••	••••	• • • • • •
	3. Mo	bile stations :		
	a)	Ship stations	100	20 h)
	b <u>)</u>	Survival Craft stations	100 d)	50 d)
	c)	Aircraft stations	100	50
	d)	Land mobile stations :		-
	÷	- power 5 W or less	100	50
		- power above 5 W	100	20
• • •	• • • •		• • • • • • •	· · · · · · ·
	Foo	tnotes to the table of frequency tol	erances	
ADD	h)	the tolerance of 10 shall be app transmitters installed after 1.1 tolerance of 10 must also be rea	.73; however	this
•		transmitters before the 1.1.83.		

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/88-E 16 October 1967 Original : French

WORKING GROUP 5A

REPORT BY AD HOC WORKING GROUP 5A TO WORKING GROUP 5A

Participants : Delegations of the United States of America, France and Italy.

(Reference document : DT/71 - Annex III, paragraphs 3, 4 and 5)

Having examined Annex III to Document No. DT/71, and on the basis of the discussions among the members of Working Group 5A, the ad hoc Working Group suggests the following amendments :

- a) Delete Points 3, 4 and 5 of Annex III to Document No. DT/71;
- b) In Article 7 of the Radio Regulations, insert the new paragraph 445A shown in Annex 1;
- c) Include in a resolution, the provisions concerning the transition to SSB technique for radiotelephone stations in the maritime mobile service.

A draft of this resolution appears in Annex 2.

A. PETTI Chairman

CHIVE

Annexes : 2

Document No. DT/88-E Page 2

ANNEX 1

DRAFT AMENDMENT TO ARTICLE 7

ADD

445A

§ 11 bis (1). The frequencies assigned in single sideband channels \angle to stations in the maritime mobile service which provide a service between coast stations and ship stations \angle shall be 1400 c/s higher than the carrier frequency.

Document No. DT/88-E Page 3

ANNEX 2

DRAFT RESOLUTION No. ...

Relating to the Conversion to Single Sideband Technique of . Stations in the Maritime Mobile Service operating in Radiotelephony in the Bands between 1 605 and 4 000 kc/s

The Maritime Conference, Geneva 1967,

considering

that these stations will have in future to use single sideband technique;

that during the period of conversion to single sideband technique, every precaution must be taken to avoid harmful interference between stations operating with double sideband and those operating with single sideband;

resolves

that the transition to single sideband technique in the stations referred to in considerandum 1 above /which provide a service between coast stations and ship stations/ shall be made in accordance with the following provisions :

- <u>a</u>) l the carrier frequency of the single sideband channel in the upper part of the previous double sideband channel shall be the same as the carrier frequency of that channel;
- <u>a</u>) 2 the carrier frequency of the single sideband channel in the lower part of the previous double sideband channel shall be 3 kc/s lower than the carrier frequency of that channel.

emissions in class A3H shall not be used on single sideband channels derived from the lower portion of previous double sideband channels.

1.

2.

3.

a)

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INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/89-E 16 October 1967 Original : English

WORKING GROUP 5A

FOR WORKING GROUP 5A

Utilization of the two new channels in the band 2170 - 2194 kc/s

Some discussion on this subject took place at the sixth meeting of Committee 5 on 14 October 1967.

It was decided :

- 1. The carrier frequency of the lower channel shall be on 2170.5 kc/s. Thus, the assigned frequency will be 2171.9 kc/s.
- 2. The carrier frequency of the higher channel shall be on 2191.0 kc/s. Thus, the assigned frequency will be 2192.4 kc/s.

With regard to utilization of carrier frequency 2170.5 kc/s it appeared from the discussion that it would not be possible to obtain common wcrldwide use of this channel. The utilization was then considered on a regional basis.

Region 1

There was general agreement for using this channel for calling purposes by coast stations with class A3A and A3J emissions. When necessary, coast stations would use this channel also for selective calling with class A2H emission. Exceptionally, coast stations might use the same channel with class A3H emission for safety messages.

It was not made clear whether Region 1 countries could accept a power limitation of 400 W peak envelope power for coast stations using this channel.

Regions 2 and 3

There was general agreement for using this channel for shore-ship and intership communications with class A3A and A3J emissions and a power limitation of 400 W PEP.

However, some Region 3 countries favoured the use of this channel as a supplementary calling channel without specifying any additional class of emission.



Document No. DT/89-E Page 2

The Delegation of Australia was in favour of indicating the channel for use by the maritime mobile service, without any further specification.

There was not time to discuss the utilization of the channel with carrier frequency 2191.0 $\rm kc/s$.

P. MORTENSEN

Chairman Committée 5

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/90-E 16 October 1967 Original : English

COMMITTEE-4

The attached is a summary of decisions taken by Committee 4 and by the ad hoc Groups dealing with proposals concerning selective calling devices and position-indicating radiobeacons.

They are presented for approval of Committee 4.

F.G. PERRIN

Chairman of Committee 4

Annex : 1



Document No. DT/90-E Page 2

ANNEX

Committee 4 considered Document No. 206 and the following amendments were agreed:

1. Emergency position-indicating radiobeacons:

1.1 that the technical characteristics appearing on page 11 <u>be adopted</u> as Appendix 20A to the Radio Regulations;

1.2 that, on page 8 between 1476C and 1476D, the word "or" be deleted;

1.3 that No. 1476D be deleted;

An ad hoc Group established to give the matter further consideration <u>has agreed</u> upon the following:

ADD 1476D b) For very high frequencies, i.e. 121.5 Mc/s and/or 243 Mc/s, the signal characteristics shall be consistent with those referred to in Resolution No..... of the World Administrative Radio Conference, Geneva, 1967. (See Annex 1.)

ADD 1476L (9) Equipment designed to transmit emergency positionindicating radiobeacon signals on very high frequencies shall be consistent with those referred to in Resolution No.... of the World Administrative Radio Conference. Geneva, 1967.

2. <u>Selective calling devices</u>:

2.1 that the technical characteristics as proposed by the United Kingdom appearing on pages 658-662 of Document No. DT/2 <u>be adopted</u> as Appendix 20C to the Radio Regulations;

The Administrations of <u>Australia</u>, <u>Canada</u>, <u>Japan</u>, <u>Republic of Korea</u> and the <u>United States of America</u> stated that they could not adopt these technical characteristics and requested that the following statement <u>be recorded</u>:

Document No. DT/90-E Page 3

Statement

The Administrations of Canada and the United States of America stated that frequencies in the 4 and 6 Mc/s bands would be used in Region 2 with a power limitation of 1 kW Pp for simplex voice calling and working purposes (coast and ship stations), if other countries in Region 2 agree. The delegate of Japan stated that all of the calling frequencies would be used in Japan for simplex voice calling and working purposes (coast and ship stations).

2.2 that the medium and very high frequencies to be used for such devices be 500 kc/s, 2170.5 kc/s,* 2182 kc/s and 156.8 Mc/s;

2.3 by a majority of a joint meeting of Committees 4 and 5:

2.3.1 that two frequencies in each high frequency radiotelephone band <u>be designated</u> as calling frequencies, one for ship stations and one for coast stations, to be used for voice calling and selective calling. The precise frequencies would be selected by an ad hoc Group of Committee 5.

2.4 Proposed additions and modification to the Radio Regulations:

MOD 1147 (3) Except as provided for in No. 1352B, coast radiotelegraph stations operating in the maritime mobile exclusive bands between 4000 and 27 500 kc/s shall not use Type 2 emissions.

ADD

1352A

In the bands authorized for radiotelephony, coast stations may use, for calling, one of the following frequencies:

> 4 ---- kc/s 6 ---- kc/s 8 ---- kc/s 13 ---- kc/s and 22 ---- kc/s

ADD 1352B

Coast telegraph stations employing selective calling systems also may use the frequencies in No. 1352A for calling purposes.

* At the latest, eight years after the date of implementation of the revised Radio Regulations, this frequency will replace 2182 kc/s for selective calling.

Annex : 1

Document No. DT/90-E Page 4

Annex

RESOLUTION No. ...

The World Administrative Radio Conference, Geneva, 1967,

considering

<u>a)</u>

<u>b</u>)

<u>c</u>)

that emergency position-indicating radiobeacons operating on 121.5 and 243 Mc/s are intended to facilitate search and rescue operations;

that frequencies 121.5 and 243 Mc/s are in common use by aircraft engaged in search and rescue operations;

that the International Civil Aviation Organization (I.C.A.O.) has established recommended signal characteristics and technical specifications for aircraft equipment operating on 121.5 and 243 Mc/s;

resolves

that administrations authorizing the use of emergency position indicating radiobeacons on 121.5 and 243 Mc/s should ensure that such radiobeacons comply with the relevant Recommendations and standards of the I.C.A.O. and the C.C.I.R.

GENEVA, 1967

Document No. DT/91-E 16 October 1967 Original : English

COMMITTEE 5

REFERENCE DOCUMENT No. 242, PARAGRAPH 8 OF THE ANNEX

During the Sixth Meeting of Committee 5 where Document No. 242 was discussed and approved, sub-paragraph 8 c) of the Annex was deferred in order to study possible improvement of the text of this sub-paragraph. The original text and an alternative text are given below :

Original text

Alternative text

c) date up to which coast stations should maintain capability to receive transmissions with ±15 kc/s peak deviation, and after which modification of such receivers to meet selectivity requirements for a channel spacing of 25 kc/s should take place as quickly as practicable 1.1.1973.

> Chairman of Committee 5 : P. MORTENSEN

GENÈ

GENEVA, 1967

Document No. DT/92-E 16 October 1967 Original : English

WORKING GROUP 5C

REPORT OF THE AD HOC WORKING GROUP 5C ON REVISION TO APPENDIX 18

REFERENCE - PROPOSAL NUMBER G/112 (55)

Participants :

Canada

Denmark

United States of America

France

Norway

Federal Republic of Germany

United Kingdom

Sweden

Switzerland

Union of Soviet Socialist Republics

International Chamber of Shipping (I.C.S.)

Comité International Radio Maritime (C.I.R.M.)

Terms of Reference

To prepare a new plan of frequency allocations in order to replace Appendix 18, in due time, on the basis of 25 kc/s channel spacing.

The Ad Hoc Group, utilizing as on initial basis for discussion, Proposal number G/112 (55) drew up a new plan to replace Appendix 18. The new plan to replace Appendix 18 becomes Appendix 18A (Annex I).

Document No. DT/92-E Page 2

4

Notes f) and g) to the Table of Appendix 18 are deleted in the new Appendix. It was agreed that notes a) to e), inclusive, to Appendix 18 should be retained in Appendix 18A, and that the substance of notes a) to d) inclusive should be included in Article 35 (Annex III). A new note to Appendix 18A, note f), relating to the use of channels 60 and 88 is added to the notes to that Table. The notes now applicable to Appendix 18A form Annex II.

A new proposal relating to the use of channels 15 and 17 with ± 5 kc/s deviation and limited power may be introduced at the meeting of Working Group 5C. The Ad Hoc Group took note of the necessity to limit transmitter power on channels 15 and 17 in order to avoid reduction of the sensitivity of receivers tuned to channel 16.

T.E. DEVEY Chairman

Annexes : 3

Document No. DT/92-E Page 3

ANNEX I

WORKING GROUP 5C AD HOC

APPENDIX 18A

Table of transmitting frequencies for the band 156-174 Mc/s for radiotelephony in the international maritime mobile service*

(See Article 35)

Channel		Transmitting Frequencies (Mc/s)		Inter-	Port operations		Public
	designators		Coast Stations	ship	Single frequency	Two frequency	corres- pondence
***	60	156.025	160.625			17	25
01		156.050**	160.650			10	8
	61	156.075	160,675			23	19
02	· .	156.100	160.700			8	10
	62	156.125	160,725			20	22
03		156.150**	160.750			- 9	9
	63	156.175**	160.775			18	24
04	•	156.200	160.800			11 '	7
	64	156,225	160.825			22	20
05		156.250	160.850			6	12
	65	156.275	160.875			21	21
06		156.300					
	66	156.325	160.925			19	23
07	• .	156.350	160.950		-	. 7.	11
	67	156,375	156.375	10	10		
08		156.400		2			
	68	156.425	156.425		6		
09		156.450	156.450	5	5		
	69	156,475	156.475	9.	11		
10 .		156.500	156.500	3	9		
	70	156.525		6			
11	·	156.550	156.550		3		
1		1 · · · · ·	٩		I		

* For assistance in understanding the Table, see Notes a) to f) below.
** See Note e)

*** See Note f)

Annex I to Document No. DT/92-E Page 4

Channel	Transmitting Frequencies (Mc/s)		Inter-	Port operations		Public corres
designators	Ship Stations	Coast Stations	ship	Single	Two frequency v	nondence
71	156.575	156.575		7	110000000	- <u></u>
12	156.600	156.600			· · · · · · · ·	
72	156.625	-	7			
13	156 .6 50	156.650	4	4		
73	156.675	156.675	8	12		
14	156.700	156.700		2		
74	156.725	156.725		8		
15	156.750	156.750	12	14		
75		Guard	band 156.7	625-156.782	5 Mc/s	
16	156.800	156.800	CALLING A	ND SAFETY		
76		Guard	band 156.8	125-156.837	5 Mc/s	
17	156.850	156.850	13 .	13		
77	156.875		11.			,
18	156.900	161.500			3	
78	156.925	161.525	-		12	
19	156.950	161.550			4	
79	156.975	161.575			14	
20	157.000	161.600				
80	157.025	161.625			16	
21	157.050	156.050** or 161.650	·)		5	
81	157.075	161.675		•	15	
22	157.100	161.700			2	
82	157.125	161.725			13	26
23	157.150	156.150** or 161.750				5
83	157.175	156.175** or 161.775				16
24	157.200	161.800				4
84	157.225	161.825		•	24	13

** See Note e)

Annex I to Document No. DT/92-E Page 5

Channel	Transmitting Frequencies (Mc/s)		Inter-	Port operations		Public
designators	Ship Stations	Coast Stations	ship	Single frequency	Two frequency	corres- pondence
25	157.250	161.850		-		3
85	157.275	161.875				17
26	157.300	161.900				
86	157.325	161.925				15
27	157 .35 0	161.950				2
87	157.375	161.975				14
28	157.400	162.000				6
*** 88	157.425	162.025				18

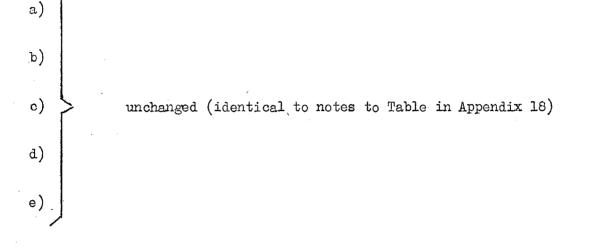
*** See Note f)

Document No. DT/92-E Page 6

ANNEX II

NOTES REFERRING TO THE TABLE

(of App. 18A)



f)

The channels 60 and 88 can be used subject to special agreements between interested and affected administrations.

Document No. DT/92-E Page 7

ANNEXIII

1376A (1) bis

1376B (1) ter

1376C (1) quater

1376D (1) quinques

1376E (1) sexies

In assigning frequencies to stations in the maritime mobile service, administrations shall ensure that :

a) the normal sequence in which channels should be taken into use by mobile stations is in accordance with the figures in the column in Appendix 18A headed "Intership";

b) the normal sequence in which channels should be taken into use by each coast station is in accordance with the figures in the column in Appendix 18A headed "Port Operations" and "Public Correspondence";

c) during ice seasons, ship stations shall avoid harmful interference to communications on 156.300 Mc/s ((hannel)6 -Appendix 18A) between icebreakers and assisted ships;

d) administrations should, as far as possible, arrange that ship stations fitted with the channels corresponding to the figures in a circle in Appendix 18A can obtain a reasonably adequate use of available services.

ADD

GENEVA, 1967

Document No. DT/93-E 16 October 1967 Original : English

COMMITTEE 4

REPORT OF COMMITTEE 4 AD HOC GROUP SET UP TO CONSIDER THE SHIFT OF COAST RADIOTELE GRAPH STATION FREQUENCY ASSIGNMENTS

The attached Resolution contains the conclusions reached by the

Annex : 1

Group.

F. THORNE Chairman

> ARCHIVES U.I.T. Geneve

Document No. DT/93-E Page 2

ANNEX

DRAFT RESOLUTION No.

Relating to the Transfer of certain Frequency Assignments for Coast Radiotelegraph Stations in the Bands Exclusively Allocated to the Maritime Mobile Service in the Bands between 4000 and 23 000 kc/s

The Maritime World Administrative Radio Conference, Geneva, 1967,

considering

a)

<u>b</u>)

that the frequency band limits for radiotelegraph coast stations have been modified as a result of the revision of appendices 15 and 17;

that the new limits of the frequency bands for coast radiotelegraph stations are :

4231	-	4361	kc/s
6345.5	-	6513.5	kc/s
8459.5	-	8728.5	kc/s
12689	-	13105	kc/s
16917	-	17255	kc/s
22374		22624	kc/s

recognizing

that re-arrangement of the frequency bands allocated to the maritime mobile service should be carried out in several stages and that the transfer of certain coast radiotelegraph station frequency assignments conditions any subsequent arrangements and should therefore be one of the first phases of the re-arrangement;

resolves

that the assignments made to coast radiotelegraph stations entered in the Master International Frequency Register on the date of entry into force of the provisions contained in the Final Acts of this Conference shall be transferred as follows :

- any frequency assignment f in the 4360 - 4368 kc/s band shall be transferred to the frequency f - 129 kc/s;

- any frequency assignment f in the 6512.5 - 6525 kc/s band shall be transferred to the frequency f - 168 kc/s;

- any frequency assignment f in the 8730 - 8745 kc/s band shall be transferred to the frequency f - 268 kc/s;

any frequency assignment f in the 13 110 - 13 130 kc/s
 band shall be transferred to the frequency f - 418 kc/s;

- any frequency assignment f in the 17 255 - 17 290 kc/s band shall be transferred to the frequency f - 336 kc/s;

- any frequency assignment f in the 22 625.5 - 22 650 kc/s band shall be transferred to the frequency f - 252 kc/s

that by the use of low traffic ships of frequencies above 4229 kc/s, 6343.5 kc/s, 8458 kc/s, 12 687 kc/s, 16 916 kc/s and 22 370 kc/s shall cease

At x hours GMT on * administrations shall change the transmitting frequencies of their radiotelegraph stations in accordance with the rules mentioned above and shall notify the I.F.R.B. of the changes made.

* Date to be fixed by the Conference; it should be as soon as possible after the date on which the Final Acts of the Conference come into force.

1.

2.

3.

Annex to Document No. DT/93-E Page 4

Provided no characteristic other than the designation of the transmitting frequency has been changed, the I.F.R.B. shall enter the change requested in the Master International Frequency Register. The other details of the entry - in particular the dates given in column 2 - shall not be altered.

Three months after * the I.F.R.B. shall send to any administrations which have not reported the transfer of frequencies assigned to their coast radiotelegraph stations an extract from the Master International Frequency Register showing the entries contained therein opposite their name, relating to stations of this category, accompanied by a reminder of the provisions of this resolution.

Two months after the despatch of these extracts, the I.F.R.B. shall re-examine any assignments contained in the Master Record in respect of which a change making the assignments in question conform with the present resolution has not been notified by the countries concerned; this re-examination shall be made as though the notification appearing in the Master Register had been sent to the I.F.R.B. on the date of the examination.

* Date to be fixed by the Conference; it should be as soon as possible after the date on which the Final Acts of the Conference come into force.

4.

5.

6.

GENEVA, 1967

Document No. DT/94-E 16 October 1967 Original : English

WORKING GROUP 6A

SUPPLEMENTARY REPORT TO WORKING GROUP 6A

(submitted by the U.S.A. at the request of W.G. 6A)

ADD

1258A

However, a brief exchange of traffic concerning the safety of navigation need not be transmitted on a working frequency when it is important that all ships within range receive the transmission.

Reasons :

To recognize present practice and include such practice in Article 33, which deals with procedure.

ADD 1258B

Stations hearing a transmission concerning the safety of navigation shall listen to the message until they are satisfied that the message is of no concern to them. They shall not make any transmission likely to interfere with the message.

Reasons :

This new provision is based upon present RR 1495. When the procedure of No. 1258 is followed, transmissions concerning the safety of navigation will take place on an intership frequency according to the sequence specified in footnote a) of Appendix 18. Intership frequencies are available to all ships and will be used for many purposes other than safety of navigation. Consequently, it is necessary to furnish the same caveat and protection for safety of navigation transmissions as is now contained in No. 1495 for "safety" messages.

Document No. DT/79, page 2 refers.



GENEVA, 1967

Document No. DT/95-E 17 October 1967 Original : French

WORKING GROUP 5B

DRAFT

FIFTH REPORT BY WORKING GROUP 5B TO COMMITTEE 5

I. Timetable for the transition to SSB in the bands between $\frac{4000}{4000}$ and 23 000 kc/s

The Working Group decided that the conversion to SSB technique should be scheduled as follows:

1. It decided (unanimously) that, as from 1 January 1972, new installations on board ships should consist solely of SSB equipment, but that administrations should try to avoid installing new DSB equipment on board ships from the time that the new Regulations come into force.

2. Coast stations should cease DSB emissions entirely as from 1 January 1972. Views on this point were divided in the Working Group; two successive soundings of opinion produced the following results:

- a) 32 administrations could accept the date 1 January 1972;
 - 18 administrations were opposed to that date;

1 administration abstained.

b) 20 administrations could accept the date 1 January 1975;

28 administrations were opposed to that date.

5 administrations abstained.

3. It was decided that from 1 January 1978, emissions in Class A3 and A3H should completely cease. This decision was the outcome of a consultation which showed that:

- 44 administrations were in favour of that date;
- 7 administrations were opposed to it;
- 5 administrations abstained.



Document No. DT/95-E Page 2

4. It was moreover agreed that the dates of 1 January 1972 and 1 January 1978 should be mentioned in all the numbers of the Regulations where it was necessary and, further, that these provisions would be the subject of a resolution, the text of which appears in Annex I.

II. Use of class of emission A3B

When considering the second report of Working Group 5B, Committee 5 asked for a resolution to be drafted on the question of the use of Class A3B.

The text of that resolution, as adopted by the Working Group, is contained in Annex II.

J. BES

Chairman

Annexes : 2

Document No. DT/95-E Page 3

ANNEX I

DRAFT RESOLUTION No. ...

Relating to the Use of Single Sideband Technique in the Maritime Mobile Service Bands between 4 000 and 23 000 kc/s

The Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service, Geneva 1967,

considering

<u>a</u>)

<u>b</u>)

<u>c)</u>

Recommendation No. 28 and Resolution No. 3 of the Administrative Radio Conference, Geneva 1959;

Recommendation No. 3 contained in the Final Report of the Panel of Experts convened for the purpose of devising ways and means of relieving the pressure on the bands between 4 and 27.5 Mc/s, Geneva 1963;

the desirability of replacing double sideband emissions by single sideband emissions as rapidly as possible in the maritime mobile service bands between 4 000 and 23 000 kc/s;

resolves that

unless otherwise specified in the Radio Regulations, Geneva 1967, or in any decision concerning the use of class of emission A3B which the Conference may take in Recommendation No. /Document No. 2307, radiotelephone stations in the maritime mobile service operating in the bands between 4 000 and 23 000 kc/s shall comply with the conditions set out in the following provisions :

Annex I to Document No. DT/95-E Page 4

As from 1 January 1972, any installation made in ship stations shall consist solely of single sideband equipment. However, Administrations shall endeavour to avoid installing new double sideband equipment in those stations from the time that the Radio Regulations, Geneva 1967, come into force.

As from 1 January 1972, coast stations shall cease all double sideband emissions.

Until 1 January 1978, stations equipped with single sideband equipment shall be permitted to use Class A3H emissions in addition to Class A3A and A3J emissions.

As from 1 January 1978 Class A3A and A3J emissions only shall be authorized.

further resolves

that Recommendation No. 28 of the Administrative Radio Conference, Geneva 1959, is abrogated.

1.

2.

3.

4.

Document No. DT/95-E Page 5

ANNEXE II

DRAFT RESOLUTION

Relating to the Use of Class of Emission A3B by Radiotelephone Stations in the Maritime Mobile Service in the Bands between 4 000 and 23 000 kc/s

The World Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service (Geneva, 1967),

considering

<u>a</u>)

that certain administrations are at present using Class A3B emissions, in accordance with the provisions of Appendix 17, to the Radio Regulations, Geneva (1959) for radiotelephone communications with ships;

b)

that difficulties may arise from the use of this class of emission when the new allotment plan is prepared by the conference which is the subject of Recommendation No. /Document No. 230/;

resolves

1.

that, as an exception, the use of Class A3B emissions, in addition to normal SSB emissions, may continue to be authorized, subject to special arrangement between administrations concerned up to the date when the new allotment plan enters into force;

2.

that the next Conference shall consider whether Class A3B emissions should be maintained after that date.

GENEVA, 1967

Document No. DT/96-E 17 October 1967 Original : French

WORKING PARTY 5B

NEW WORDING OF NUMBER 1351A

ADD 1351A

S 2ter.(1) Unless otherwise specified in the present Regulations (see Nos.), the classes of emission to be used in the bands between 4000 and 23 000 kc/s shall be

1) A3 or

2) A3H, A3A and $A3J^{1}$

For the single sideband mode of operation, upper sideband shall be used /with a necessary bandwidth not exceeding 2.8 kc/s/.

However, after 1 January 1972 class A3 emission shall no longer be authorized for coast stations, and after 1 January 1978 class A3H emission for coast stations and class A3 and A3H emissions for ship stations shall no longer be authorized.

ADD

1351A

¹ For use of class of emission A3B, see Resolution No. /Document No. DT/.../



GENEVA, 1967

Document No. DT/97-E 17 October 1967 Original : English

WORKING GROUP 5A

DRAFT SEVENTH REPORT OF WORKING GROUP 5A

TO COMMITTEE 5

1. Designation of common frequencies in the MF bands for use by the radiotelephone coast stations for their communications with ships of other nationality

The Working Group considered the report of the ad hoc group it had set up to study the proposal HOL/183 (37) concerning a new paragraph No. 1336A to be inserted in the Radio Regulations to the effect that some specific frequencies should be designated for common use by radiotelephone coast stations for their communications with ships of other nationality. However, the ad hoc group, after having examined the Master International Frequency Register, concluded that it was not possible, for the time being, to designate such frequencies. Consequently, the Working Group 5A adopted a draft recommendation to the effect that proposals should be made by the administrations to the next administrative radio conference and that, in the meantime, such frequencies should be used according to special or regional arrangements. This draft recommendation appears in Annex.

2. <u>Proposal concerning the continuation of DSB mode of operation</u> <u>after the transition period on small fishing ship using one</u> <u>single frequency for intership communications with low power</u> (Document No. 248)

This proposal was not seconded. The Working Group was of the opinion that such operations should be made under the provisions of No. 115 of the Radio Regulations.

P. AAKERLIND

Chairman



Annex : 1

Document No. DT/97-E Page 2

ΑΝΝΕΧ

DRAFT RECOMMENDATION

Relating to the Designation of Common Frequencies in the MF Bands for Use by the Coast Radiotelephone Stations for their Communications with Ships of Other Nationality

The World Administrative Radio Conference to deal with matters relating to the Maritime Mobile Service (Geneva, 1967),

noting

a)

b)

<u>c</u>)

<u>a</u>)

<u>b</u>)

that on small ships, equipped with a single sideband installation, a crystal controlled spot frequency receiver is essential in order to facilitate correct tuning;

that such ships, which make international voyages and communicate with coast stations of another nationality, need to be provided with a considerable number of additional crystals;

that to reduce the number of single sideband receiver crystals required, ensures that the cost of single sideband receivers is kept to an economical level;

considering

that international working frequencies should be assigned to all coast stations for working with ships of another nationality such as use of these frequencies not precluding the possibility of using them also for national purposes;

that an examination of the Master International Frequency Register has revealed that neither on a world-wide nor on a regional basis any frequencies appear to be available for common use by all coast stations for working with ships of another nationality;

Annex to Document No. DT/97-E Page 3

recommends

that administrations study this matter at the earliest opportunity with a view to formulating proposals for consideration by the next administrative radio conference competent to deal with the matter;

2.

1,

that, in the meantime, countries should explore the possibility of concluding regional, bilateral or multilateral arrangements to provide common working frequencies for coast stations for working with ship stations of another nationality.

GENEVA, 1967

Document No. DT/98-E 17 October 1967 Original : English

COMMITTEE 5

DRAFT

SECOND REPORT OF COMMITTEE 5

1. The attached texts, which concern Nos. 985, 986, 987 and 996 of the Radio Regulations have been generally agreed upon by Committee 5.

2. Concerning No. 992 of the Radio Regulations, the part of the text considered by Committee 5 was modified and agreed to read :

∠Doc. 2077

"or, on the carrier frequency 2182 kc/s, transmitting class A3 or A3H emissions and receiving class A3 and A3H emissions." (The drafting of the first part of this number has

been dealt with by Committee 4.)

(Reference is made to Documents Nos. 209 and 231.)

3. The attached texts also include Nos. 1319, 1321, 1321A, 1322, 1322A, 1322B, 1323, 1324, 1325 and 1326.

4. Concerning No. 1320 of the Radio Regulations a proposal was considered to delete this paragraph since the same provision was given in more general terms in No. 951 of the Radio Regulations. However, the ZDoc. 1997 Committee felt that this decision should be left to Committee 7 in connection with its study of the advisability of rearranging those parts of the Radio Regulations relating to the maritime mobile service. Committee 5 was of the opinion that this provision should be included for information in any manual or other extract of the Radio Regulations that might be published for use by radio operators in the maritime mobile service.

P. MORTENSEN Chairman of Committee 5

Annexes : 2

Document No. DT/98-E Page 2

Ref: Document No. 207-E

ANNEX I

Article 28

MOD

985

b) send in addition class :

i) A3 or

ii), A3H, A3A and A3J¹

986

MOD

c) receive in addition class :

i) A3 and A3H or

ii) A3, A3H, A3A and A3J

emissions on all other frequencies necessary for their service.

NOC 987 ADD 985.1

² Up to <u>/....</u> (date)......7 administrations may, in certain areas, reduce this requirement to classes A3H and A3J emissions on working frequencies.

Annex I to Document No. DT/98-E Page 3

Ref: Document No. 207-E

(MOD)	985.2	Same as present text of 985.17.
		• • • • • • • • • • • • • • • • • • • •
MOD	996	- in the bands between 1605 and 2850 kc/s, be able
		to transmit on carrier frequency 2182 kc/s using
		class A3 or A3H emissions. If a receiver is provided
		for any of these bands, it shall be able to receive
		class A3 and A3H emissions on carrier frequency
		2182 kc/s.

Document No. DT/98-E Page 4

Ref: Documents Nos. 217-E and 236-E

ANNEX II

Article 35

NOC		Use of Frequencies for Radiotelephony in the
NOO		
		Maritime Mobile Service
NOC		Section I. General Provisions
NOC	1319	
		• • • • • • • • • • • • • • • • • • •
NOC	1321 🕔	
ADD	1321A .	s slbis Frequencies on which SSB emissions are sent shall
		be designated by the carrier frequency, followed, in
		brackets, by the assigned frequency.
NOC	1322	
ADD .	1322A	$\stackrel{ m S}{ m S2}$ bis SSB apparatus in radiotelephone stations of the
		maritime mobile service operating in the bands between 1605
<u>/</u> Ex 1322B	-	and 4000 kc/s allocated to this service and in the bands
Doc. 236		allocated exclusively to this service between 4000 and
		23 000 kc/s shall satisfy the technical and operational
· · · ·		conditions specified in <u>Appendix 17A</u> and

Annex II to Document No. DI/98-E Page 5

Ref: Documents Nos. 217-E and 236-E

Section II. Bands between 1605 and 4000 kc/s

A(o) Mode of operation of Stations

\$2 ter (1) Unless otherwise specified in the present Regulations (see Nos. 987, 996, 1323, $\boxed{1336}$ and $\boxed{1337}$), the classes of emission to be used in the bands between 1605 and 4000 kc/s shall be :

/Ex 1322A Doc. 21<u>7</u>/

1322B

1) A3 or

2) A3H, A3A and A3J.

For the single sideband mode of operation, upper sideband shall be used <u>with a necessary bandwidth not</u> exceeding 2.8 kc/s.

However, after \angle date, e.g. 1.1.75 \angle class A3 emission shall no longer be authorized for coast stations, and after \angle date, e.g. 1.1.82 \angle class A3H emission for coast stations and class A3 and A3H emissions for ship stations shall no longer be authorized.

13220

ADD

(2) The normal mode of operation for each coast station shall be indicated in the List of Coast Stations.

NOC

ADD

ADD

<u>Annex II to Document No. DT/98-E</u> Page 6

Ref: Document No. 236-E

A. Distress

§3. (1) The frequency 2182 kc/s¹ is the international distress frequency for radiotelephony; it shall be used for this purpose by ships, aircraft, survival craft stations and by emergency position-indicating radio beacons using frequencies in the authorized bands between 1605 and 4000 kc/s when requesting assistance from the maritime services. It is used for the distress call and distress traffic, for signals of emergency positionindicating radio beacons, for the urgency signal and urgency messages and for the safety signal. Safety messages shall be transmitted where practicable, on a working frequency after a preliminary announcement on 2182 kc/s. The class of emission to be used for radiotelephony on the frequency 2182 kc/s shall be A3 or A3H (see No. 984). The class of emission to be used by emergency position-indicating radio beacons is specified in Appendix 20A /Document No. 206, page 11/.

(1) Whatever the class of emission used, the value indicated, 2182 kc/s, always designates the carrier frequency of the emission.

(3) Except for transmissions authorized on carrier frequency 2182 kc/s, all transmissions on the frequencies between 2173.5 and 2190.5 kc/s are forbidden.

1326 (4) Any coast station using carrier frequency 2182 kc/s for distress purposes shall be able to transmit the radiotelephone alarm signal described in No. 1465 (see also Nos. 1471, 1472 and 1473).

NOC

MOD

1323

1323.1

NOC 1324

MOD 1325

ADD

MOD 1

GENEVA, 1967

Document No. DT/99-E 17 October 1967 Original : English

WORKING GROUP 5A

REPORT OF THE WORKING GROUP 5A AD HOC TO WORKING GROUP 5A

(Reference Document F/8(34))

Participants :

Denmark

France

Federal Republic of Germany

Norway

Netherlands

United Kingdom

United States of America

l.

The Group examined the addition to No. 1336 of Radio Regulations as proposed in the reference document.

2. The Group considered :

a) that class A3H emission may be used until the end of the conversion period;

b) that, after the end of the conversion period, class A3H emission will no longer be authorized, other than on carrier frequency 2182 kc/s;

c) that the use of a working frequency for the transmission of messages concerning the safety of shipping, using A3H emission will, therefore, be authorized until the end of the conversion period;

d) that some administrations require the <u>continued</u> use of A3H emission for the transmission of messages concerning the safety of shipping, on a working frequency, after the end of the conversion period;



Document No. DT/99-E Page 2

e) that, after the end of the conversion period, there will be no working frequencies, either on a worldwide or a regional basis, on which the continued use of class A3H emission is authorized, with the possible exception of the carrier frequency 2170.5 kc/s;

f) that the discussions in Committee 5 on the use of the carrier frequency 2170.5 kc/s have revealed that it is possible that agreement might be reached, at least on a Region 1 basis, on the use of this frequency with class A3H emission, after the end of the conversion period, for the transmission of messages concerning the safety of shipping;

3. The Group, therefore, recommends :

that, in view of the above considerations, in particular those in paragraph 2 f), the use of the carrier frequency 2170.5 kc/s be authorized in Region 1, after the conversion period, for the transmission by coast stations of messages concerning the safety of shipping, using A3H type of emissions, subject to no harmful interference being caused to the reception of distress messages on carrier frequency 2182 kc/s.

4. If the solution given in paragraph 3 above would not appear to be acceptable, the Group recommends :

that, by means of a suitable Recommendation, the matter be referred to a future World Administrative Conference, competent to deal with it.

5. The Group submits the attached addition to No. 1336 for the consideration of the Working Group.

V.R.Y. WINKELMAN

Chairman

Annex : 1

Document No. DT/99-E Page 3

ANNEX

1336 § 8 (1) Coast stations which use 2182 kc/s for calling shall be able to use at least one other frequency in the authorized bands between 1605 and 2850 kc/s. Exceptionally class A3H may be used in Region 1, for the transmission of messages concerning safety of shipping, announced on 2182 kc/s, on carrier frequency 2170.5 kc/s, subject to no harmful interference being caused to the reception of distress messages on carrier frequency 2182 kc/s.

ADD

1336.1

MOD

(1) Before the <u>transition</u> date for coast stations either A3 or A3H may be used.

GENEVA, 1967

Document No. DT/100-E 17 October 1967. Original : English

COMMITTEE 4

APPENDIX 3

According to the decision taken at the twenty first meeting, the attached table and footnote j) is submitted to Committee 4 for final approval.

F.G. PERRIN Chairman

Annex : 1



Document No. DT/100-E Page 2

ΑΝΝΕΧ

APPENDIX 3

Change Table of Frequency Tolerances*) applicable to high traffic ship stations using Class Al emission from 200 parts per million to 50 parts per million, as indicated hereinafter :

	Tolerances	Tolerances	
Frequency Bands	applicable until	applicable to new	
(lower limit exclusive,	l January 1966 ¹⁾ to	transmitters installed	
upper limit inclusive)	transmitters in use	after 1 January 1964	
and	and to those to be	and to all	
Categories of Stations	installed before	transmitters after	
Categories of Stations	l January 1964	1 January 19661)	
	· · · · ·	in the case of all	
	tolerances mar	ked with an asterisk	
b) Aeronautical Stations:			
-power 500 W or less	100	100	
-power above 500 W	50	50	
c) Base Stations:			
-power 500 W or less	100	100	
-power above 500 W	50	50	
		20	
3. Mobile Stations:			
a) Ship Stations:			
1) Class Al emission	200	200	
Low traffic ships	200	<u>200</u> j)	
High traffic ships		<u>50</u> **)	
2) Emission other than	1.5		
Class Al:			
-power 50 W or less	50 c)	50 c)	
-power above 50 W	50	50	
b) Survival Craft Stations	-	200	
c) Aircraft Stations	200*)	100*)	
d) Land Mobile Stations	200	200	
4. Broadcasting Stations	30	15	

- *) As amended by the E.A.R.C. Space (1963)
- **) Effective upon the entry into force of the revised Regulations
- j) The frequency tolerance shall be 50 parts per million for ship stations using the lowest or highest series of calling frequencies or the lowest series of working frequencies for low traffic ships / See Appendix 15 A/

GENEVA, 1967

Document No. DT/101-E 18 October 1967 Original : French/ English

WORKING GROUP 50

PROPOSALS FROM TWO ADMINISTRATIONS CONCERNING "ON BOARD COMMUNICATIONS" IN THE FREQUENCY BAND 156 - 174 Mc/s

1. Proposal from United Kingdom

1373D

ADD

The Intership Channels 70 and 72 given in the Table of transmitting frequencies of Appendix 18A, may also be used for internal communications on board ship provided the effective radiated power does not exceed 1 Watt.

APPENDIX 18A

ADD

Note ... Channels 70 and 72 may also be used for internal communication on board ship provided the effective radiated power does not exceed 1 Watt /see No. 1373D/.

2. Proposal from France

The channels assigned in Appendix 18 for intership communication may also be used for internal communications on board ship, provided the effective radiated power does not exceed 1 Watt and subject to the agreement of the Administrations concerned when these channels are used in territorial waters.

E. FROMMER

Chairman of Working Group 50



GENEVA, 1967

Document No. DT/102-E 17 October, 1967 <u>Original</u> : English

COMMITTEE 4

REPORT OF AD HOC GROUP SET UP TO CONSIDER THE NOTIFICATION OF SHIP STATION FREQUENCIES FOR DIRECT-PRINTING TELEGRAPH AND DATA SYSTEMS

The draft Resolution/Recommendation attached as Annex was basically agreed upon. The main differences of opinion were on whether the document should be a Resolution or a Recommendation and whether the notification of the use of frequencies should be on a voluntary or compulsory basis.

> F. THORNE Chairman

Annex : 1



Document No. DT/102-E Page 2

ANNEX

DRAFT RESOLUTION / OR RECOMMENDATION /

The World Administrative Radio Conference, Geneva, 1967,

<u>considering</u>

<u>a</u>)

<u>b</u>)

ر<u>ي</u>

<u>d</u>)

that in Appendix 15A certain sections of the HF bands allocated to the maritime mobile service are reserved for narrowband direct-printing telegraph and data systems;

that the development by Administrations of radiotelegraph services between ship and shore using narrow-band direct-printing telegraph and data systems is at an early stage;

that in consequence it is not practicable for this conference to decide whether it is necessary to have a basis for regulating the orderly use of frequencies for the transmission by ship stations direct-printing telegraph signals and what basis it should be and that this matter should be considered by the World Administrative Radio Conference referred to in Recommendation No.;

that the existing provisions of the Radio Regulations do not provide Administrations with appropriate guidance for the period between the coming into force of the Final Acts of the present Conference and the coming into force of the Final Acts of the World Administrative Radio Conference referred to in Recommendation No.;

resolves

that, during the period referred to in d) above, any Administration operating or bringing into operation a narrow-band direct-printing telegraph and data service for ships shall notify to the International Frequency Registration Board, for inclusion in the Master International Frequency Register, and to the Secretary-General for inclusion in the List of Coast Stations, the frequencies on which ships wishing to participate in the service will be required to transmit;

that these notices concerning frequencies used for reception by coast stations shall not be subject to technical examination by the Board, and that the assignments concerned shall be recorded in the Master Register for information only, bearing no date in Column 2a, 2b or Column 2c but with a suitable remark in the Remarks Column;

that these entries in the Master Register shall not prejudge any decisions to be taken by the World Administrative Radio Conference referred to in Recommendation No.

<u>_</u>)

<u>b</u>)

<u>a</u>)

GENEVA, 1967

Document No. DT/103-E 18 October 1967 Original : English

WORKING GROUP 6B

DRAFT

EIGHTH REPORT OF WG 6B TO COMMITTEE 6 (ORERATIONS)

<u>Article 36</u>, Distress Signal and Traffic. Alarm, Urgency and Safety Signals. Section III, Distress Call and Message (continued from Document No. 250) Sections IV-VI and VII (in part).

Working Group 6B <u>unanimously agreed</u> to recommend the adoption of the provisions appearing in the Annex hereto.

H.A. FEIGLESON

Chairman -

Annex : 1

Document No. DT/103-E Page 2

ANNEX

Article 36, Section III (Continued from Document No. 250)

NOC 1394 - 1400

Article 36, Section IV

NCC 1401 - 1407

1408

MOD

(DT/2 p.391)

(2) However, when time is vital, the second step of this procedure (No. 1403) or even the first and second steps (Nos. 1402 and 1403), may be omitted or shortened. These two steps of the distress procedure may also be omitted in circumstances where transmission of the alarm signal is considered unnecessary.

NOC 1409 - 1424

Article 36, Section V

NOC 1425

1426

MOD

(2) However, in areas where reliable communications with one or more coast stations are practicable, ship stations should defer this acknowledgement for a short interval so that a coast station may acknowledge receipt.

NOC 1427

ADD

(DT/2 p.397)

However, stations in the maritime mobile service which receive a distress message from a mobile station which, beyond any possible doubt, is a long distance away, need not acknowledge receipt of messages except as specified in No. 1455.

NOC 1428 - 1429

1427A

Annex to Document No. DT/103-E Page 3

Article 36, Section V (Cont.)

(DT/2 p.398)	MOD	1430	b) Radiotelephony :
, .			- the call sign or other identification of the
			station sending the distress message, spoken
· .	· · ·	• •	three times;
			- the words THIS IS (or DE spoken as DELTA ECHO in
		•	case of language difficulties);
			- the call sign or other identification of the sta-
. ·			tion acknowledging receipt, spoken three times;
			- the word RECEIVED (or R spoken as ROMEO);
		· .	- the distress signal.
	NOC	1431	
	ADD	1431A	_ Held in abeyance, D to supply text_/

NOC 1432

Article 36, Section VI

NOC 1433 - 1450

MOD 1451 (3) In radiotelephony, this message consists of:

- the distress signal MAYDAY;
- the call "to all stations" (or CQ spoken as CHARLIE QUEEN), spoken three times;

Annex to Document No. DT/103-E Page 4

Article 36, Section VI (Cont.)

- the words THIS IS (or DE spoken as DELTA ECHO in case of language difficulties);
- the call sign or other identification of the station sending the message;
- the time of handing in of the message;
- the name and call sign of the mobile station which was in distress;
- the words SEELONCE FEENEE pronounced as the French words "silence fini".

ADD 1451A / Held in abeyance, F to supply text /

Article 36, Section VII

NOC 1452 - 1459

MOD 1460 b) Radiotelephony:

- the signal MAYDAY RELAY pronounced as the French expression "m'aider relais", spoken three times;
- the words THIS IS (or DE spoken as DELTA ECHÓ in case of language difficulties);
- the call sign or other identification of the transmitting station, spoken three times.

Annex : 1

GENEVA, 1967

Document No. DT/104-E 18 October 1967 Original : English

COMMITTEE 4

APPENDIX 3

Decisions taken at the twenty first meeting on the frequency tolerance applicable

- 1) to emergency position-indicating radiobeacons
- 2) to ship and coast station transmitters used in direct-printing telegraph and data systems

are attached as Annex 1 and are submitted to Committee 4 for final approval.

J.G. PERRIN Chairman

Document No. DT/104-E Page 2

ANNEX

AMENDMENTS TO APPENDIX 3

Band : 1605 to 4000 kc/s		
3. Mobile Stations :	·	
a) Ship Stations	200	200
b) Survival Craft Stations	· ·	300
bA) <u>Emergency position-</u> <u>indicating radiobeacons</u>	. –	300
c) Aircraft Stations	200*	100*
d) Land Mobile Stations	200	200

ADD

•

Annex to Document No. DT/104-E Page 3

	· · · · · · · · · · · · · · · · · · · ·		
	Band : 4 to 29.7 Mc/s		
	2. Land Stations :		
	a) Coast Stations :		
MOD	- power 500 W or less	50	50 <u>1</u>)
	- power above 500 W or less		
·	than or equal to 5 kW	50*	
	- power above 5 kW	50	<u> </u>
			15 <u>1</u>)
	3. Mobile Stations :		
	a) Ship stations		
	1) Class Al emission	200	200
MOD	2) Emissions other than		
	Class Al :		
	- power 50 W or less	50 c)	50 c) <u>k</u>)
	- power above 50 W	50	50 <u>k</u>)

Footnotes to the table of frequency tolerances

- ADD
- k) For ship station transmitters used for direct-printing telegraph and data systems the tolerance is 100 c/s (40 c/s for short periods of the order of 15 minutes).

ADD

1) For coast station transmitters used for direct-printing telegraph and data systems the tolerance is 40 c/s.

GENEVA, 1967

Document No. DT/105-E 18 October 1967 Original : French/ English

WORKING GROUP 6A

DRAFT

SEVENTH REPORT OF WORKING GROUP 6A TO COMMITTEE 6

(OPERATION)

Article 32, Section V, D, 2, f)

Abbreviations for the indication of working frequencies :

SUP 1205, SUP 1206 (Proposal No. AUS/122(41)).

- By arrangement between the Chairmen of Committees 4 and 6, Proposal No. AUS/122(41) would be considered by Committee 6. Furthermore, since this was the only proposal relating to paragraph 45 of Article 32 (RR 1203-1206) Committee 6 would assume the responsibility for disposing of this portion of Article 32.
- 2. Working Group 6A, after some debate finally <u>agreed</u> to recommend the <u>status quo</u> for Nos. 1205 and 1206 as shown in the Annex hereto which covers Nos. 1203 to 1206.

A. CHASSIGNOL Chairman

Annex : 1



Document No. DT/105-E Page 2

A N N E X

Article 32, Section V, D, 2,f)

NOC 1203-1206

Note to the Editorial Committee

Proposals to ADD 1206A etc., on the subject of oceanography, remained the responsibility of Committee 4.

GENEVA, 1967

Document No. DT/1(6-E 18 October 1967 Original : English

WORKING GROUP 6A

SPECIAL CALLING FREQUENCIES

Article 30, ADD 1077D

(submitted by ISR and USA)

1077D

ADD

The calling method contained in Nos. 1077A, 1077B and 1077C does not apply to ship stations when using the special calling frequencies 4186.5 kc/s, 6279.75 kc/s, 8373 kc/s, 12 559.5 kc/s, 16 746 kc/s and 22 262.5 kc/s to call coast stations which have indicated a special watch on these frequencies.

In these circumstances this consists of :

- the call sign of the station called, not more than once,
- the word DE,
- the call sign of the calling station, not more than once.

This call may be transmitted at intervals of one minute; thereafter it shall not be repeated until an interval of three minutes has elapsed.

Documents Nos. 130 + Add. and 206 refer.



GENEVA, 1967

Document No.DT/107-E(Rev.) 19 October 1967 Original : French, English, Spanish

COMMITTEE 4 AND WORKING GROUP 5D

REPORT BY WORKING GROUP 5D



Article 9

573

MOD

§ 26 (1) Frequency Bands :

	10	.	2 850 kc/s
3	155	-	3 400 kc/s
3	500	-	3 900 kc/s in Region 1
3	500	-	4 000 kc/s in Region 2
3	500	-	3 950 kc/s in Region 3
4	231		4 361 kc/s
6	345.5	• ••••	6 514 kc/s
8	459.5		8 728.5 kc/s
12	689	-	13 107.5 kc/s
16	917		17 255 kc/s
22	374		22 624.5 kc/s

DRAFT RESOLUTION No. ...

Relating to the Transfer of certain Frequency Assignments

for Coast Radiotelegraph Stations in the Frequency

Bands allocated exclusively to the

Maritime Mobile Service between 4000 and 23 000 kc/s

The World Administrative Radio Conference to deal with matters relating to the maritime mobile service (Geneva, 1967),

considering

<u>a</u>)

<u>b</u>)

that the frequency band limits for radiotelegraph coast stations have been modified as a result of the revision of appendices 15 and 17;

that the new limits of the frequency bands for coast radiotelegraph stations are :

4 231		4 361	kc/s
6 345.5	-	6 514	kc/s
8 459.5	-	8 728.5	kc/s
12 689	-	13 107.5	kc/s
16 917		17 255	kc/s
2 2 3 74	-	22 624.5	kc/s

recognizing

that the re-arrangement of the frequency usage within the frequency bands allocated to the maritime mobile service should

be carried out in several stages and that the transfer of certain coast radiotelegraph station frequency assignments conditions any subsequent arrangements and should therefore be one of the phases of the re-arrangement;

<u>resolves</u>

1.

that the frequency assignments to coast radiotelegraph stations which, on the date of entry into force of the Final Acts of this Conference, are recorded in the Master International Frequency Register, shall be transferred as follows :

any frequency assignment f in the 4 361 - 4 368 kc/s band shall be transferred to the frequency f - 129 kc/s;
any frequency assignment f in the 6 514 - 6 525 kc/s band shall be transferred to the frequency f - 168 kc/s;
any frequency assignment f in the 8 730 - 8 745 kc/s band shall be transferred to the frequency f - 269 kc/s;
any frequency assignment f in the 13 110 - 13 130 kc/s band shall be transferred to the frequency f - 419 kc/s;
any frequency assignment f in the 17 255.8 - 17 290 kc/s band shall be transferred to the frequency f - 338 kc/s;
any frequency assignment f in the 22 626 - 22 650 kc/s band shall be transferred to the frequency f - 251 kc/s;

that, as from the date of entry into force of the Final Acts of this Conference, the use by low traffic ships of frequencies above 4 229 kc/s, 6 343.5 kc/s, 8 458 kc/s, 12 687 kc/s, 16 916 kc/s and 22 370 kc/s may be discontinued; such use shall cease not later than;

at x hours GMT on *), administrations shall transfer the transmitting frequencies of their coast radio telegraph stations in accordance with the procedure referred to in 1. above. Administrations shall notify the I.F.R.B. of these transfers, in accordance with the provisions of No. 489 of the Radio Regulations

provided that the notices received by the I.F.R.B. in accordance with paragraph 3 above do not contain any change in the basic characteristics of the originally recorded assignment, other than the assigned frequency, the I.F.R.B. shall record the change in the Master International Frequency Register. The dates to be entered in the appropriate parts of column 2 shall be those of the original assignment. Any other changes in the basic characteristics of the original assignment will be dealt with in accordance with the provisions of Article 9 of the Radio Regulations;

*) This date shall be decided in a joint meeting of Committees 4 and 5 and should be as near as possible to the date as from which the new radiotelephone channels can be used (Document No. 230).

2.

3.

on the I.F.R.B. shall also include in the Master Register, in respect of each original assignment the transfer of which has not at that time been notified to the I.F.R.B., a provisional entry determined in accordance with paragraph 1 above. The dates in column 2 recorded for the original assignment shall be retained. The original entries shall be retained but with a special remark in the "Remarks" column and any dates in column 2 a) shall be transferred to column 2 b);

thirty days after, the I.F.R.B. shall send to those administrations which have not yet notified the transfer of frequency assignment to their coast radiotelegraph stations in accordance with paragraphs 1 and 3 above, an extract from the Master Register showing the relevant entries contained therein on their behalf, and shall remind them of the provisions of this Resolution;

if, thirty days after the despatch of these extracts, an administration has still not notified to the I.F.R.B. the transfer of an existing assignment in accordance with paragraph 1 above, the corresponding provisional new entry shall be deleted from the Master Register and the original entry shall be retained with its date in column 2 b) and a special remark in the "Remarks" column;

5.

6.

In those cases where the foregoing transfer procedure will result in an increase in the probability of a specific frequency assignment causing or experiencing harmful interference, the I.F.R.B. shall render such assistance as will be necessary to the administrations concerned in order to solve the problem. In doing so, the I.F.R.B. shall apply the provisions of No. 534 or Nos. 629 to 633 of the Radio Regulations, as the case may be.

GENEVA, 1967

Document No. DT/107-E 18 October 1967 Original : French, English, Spanish

COMMITTEES 4 and 5

DRAFT FIFTH REPORT OF COMMITTEE 4

The attached Resolution has been unanimously adopted by Committee 4.

F.G. PERRIN

Chairman of Committee 4





Document Mo. DT/107-E Page 2

ANNEX

RESOLUTION No. ...

Relating to the Transfer of certain Frequency Assignments for Coast Radiotelegraph Stations in the Bands Exclusively Allocated to the Maritime Mobile Service in the Bands between 4000 and 23 000 kc/s

The Maritime World Administrative Radio Conference, Geneva, 1967, considering

that the frequency band limits for radiotelegraph coast stations have been modified as a result of the revision of appendices 15 and 17;

that the new limits of the frequency bands for coast radiotelegraph stations are :

4231	-	4361	kc/s	
6345.5	-	6514	kc/s	
8459.5	-	8728.5	kc/s	
12689	-	13107.5	kc/s	
16917	-	17255	kc/s	/
22374	τ.	22624.5	kc/s	

recognizing

a)

<u>b</u>)

that re-arrangement of the frequency bands allocated to the maritime mobile service should be carried out in several stages and that the transfer of certain coast radiotelegraph station frequency assignments conditions any subsequent arrangements and should therefore be one of the first phases of the re-arrangement;

Annex to Document No. DT/107-E. Page 3

resolves

1.

2.

3.

that the assignments made to coast radiotelegraph stations entered in the Master International Frequency Register on the date of entry into force of the provisions contained in the Final Acts of this Conference shall be transferred as follows :

any frequency assignment f in the 4361 - 4368 kc/s
band shall be transferred to the frequency f - 129 kc/s;
any frequency assignment f in the 6514 - 6525 kc/s
band shall be transferred to the frequency f - 168 kc/s;
any frequency assignment f in the 8730 - 8745 kc/s
band shall be transferred to the frequency f - 269 kc/s;
any frequency assignment f in the 13 ll0 - 13 l30 kc/s
band shall be transferred to the frequency f - 419 kc/s;
any frequency assignment f in the 17 255.8 - 17 290 kc/s
band shall be transferred to the frequency f - 338 kc/s;
any frequency assignment f in the 22 626 - 22 650 kc/s

that by the use of low traffic ships of frequencies above 4229 kc/s, 6343.5 kc/s, 8458 kc/s, 12 687 kc/s, 16 916 kc/s and 22 370 kc/s shall cease

band shall be transferred to the frequency f = 251 kc/s

At x hours GMT on * administrations shall change the transmitting frequencies of their radiotelegraph stations in accordance with the rules mentioned above and shall notify the I.F.R.B. of the changes made.

* Date to be fixed by the Conference; it should be as soon as possible after the date on which the revised Radio Regulations come into force.

Annex to Document No. DT/107-E Page 4

Provided no characteristic other than the designation of the transmitting frequency has been changed, the I.F.R.B. shall enter the change requested in the Master International Frequency Register. The other details of the entry - in particular the dates given in column 2 - shall not be altered.

Three months after * the I.F.R.B. shall send to any administrations which have not reported the transfer of frequencies assigned to their coast radiotelegraph stations an extract from the Master International Frequency Register showing the entries contained therein opposite their name, relating to stations of this category, accompanied by a reminder of the provisions of this resolution.

Two months after the despatch of these extracts, the I.F.R.B. shall re-examine any assignments contained in the Master Record in respect of which a change making the assignments in question conform with the present resolution has not been notified by the countries concerned; this re-examination shall be made as though the notification appearing in the Master Register had been sent to the I.F.R.B. on the date of the examination.

* Date to be fixed by the Conference; it should be as soon as possible after the date on which the revised Radio Regulations come into force.

4.

5,

GENEVA, 1967

2.

Document No. DT/108-E 19 October 1967 Original : English

WORKING GROUP 6B

DRAFT

NINTH REPORT OF WG 6B TO COMMITTEE 6 (OPERATION)

Distress, Alarm, Urgency and Safety (Article 36 (continued) Nos. 1461-1476)

1. Working Group 6B <u>unanimously agreed</u> to recommend the adoption of the provisions appearing in the annex attached hereto.

No. 1473

Following the consideration of No. 1472, the delegation of the Netherlands proposed expanding the first sentence of No. 1473 to read :

"c) the loss of a person or persons overboard or very urgent medical case ..."

After discussion on the substance and procedurallespects of the proposal, the delegation of the Netherlands agreed to consider publiching a formal proposal for the consideration of Working Group 6B and for Committee 6.

> H.A. FEIGLESON Chairman

Annex : 1



Document No. DT/108-E Page 2

ANNEX

Article 36, Section VII (continued)

	ИОС	1461-1462	
(DT/2, p.400)	ADD	1462A	g 38 (bis) A ship station should not acknowledge receipt of a distress message transmitted by a coast station under the conditions mentioned in Nos. 1452 to 1455 until the master or person responsible has confirmed that the ship station concerned is in a position to render assistance.
			Section VIII
:	NOC	1463-1471	
(DT/2, p.401)	MOD	1472	(b) the transmission of an urgent cyclone warning. The warning should be preceded by the safety signal (see numbers 1488 and 1489). In this case they may only be used by coast stations duly authorized by their government; or
		1473	\int Held in abeyance pending HOL proposal
	MOD	1474	(2) In the cases referred to in numbers 1472 and 1473, an interval of two minutes shall, if possible, separate the end of the radiotelegraph alarm signal and the beginning of the warning or the message.
· · ·]	NOC	1475–1476	

Note to the Editorial Committee :

ADD 1466A and ADD 1473A (DT/2, p. 400) amended and ADD new Section VIIIA have been adopted provisionally and appear in Document No. 206 addressed to Committees 4 and 5. The finalized texts will follow in a later report together with Sections IX and X. UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS CONFERENCE MARITIME

GENÈVE, 1967

Document N° DT/109-F/E/S 19 October 1967 Original : anglais, français, espagnol

COMMISSION	5
COMMITTEE	2
COMISION 5	

PROPOSITION DE NOUVELLE REDACTION DU POINT 4, PAGE 2 DU DOCUMENT N° 271 PROPOSED NEW WORKING OF SECTION 4, PAGE 2 OF DOCUMENT No. 271 PROPOSICIÓN DE NUEVO TEXTO PARA EL PUNTO 4, PAGINA 2, DEL DOCUMENTO N.º271

4. Modification de l'article 5

En conséquence, il convient d'ajouter à la fin du texte actuel du numéro 287 du Règlement des radiocommunications le texte ci-après :

> "Toutefois, les fréquences des bandes dans lesquelles la priorité est accordée au service mobile maritime peuvent être utilisées pour les communications radiotéléphoniques sur les voies d'eau intérieures, sous réserve d'accords entre les administrations intéressées et celles dont les services auxquels la bande est attribuée sont susceptibles d'être affectés et en tenant compte des usages courants et des accords existants."

4. Modification of Article 5

As a consequence, at the end of the present text of No. 287 of the Radio Regulations, the following text must be added:

> "However, the frequency bands in which priority is given to the maritime mobile service may be used for radiotelephone communications on inland waterways, subject to agreements between interested and affected administrations and taking into account current usage and existing agreements."

4. Modificación del artículo 5

Como consecuencia de la nota anterior, al final del actual número 287 del Reglamento de Radiocomunicaciones habría que añadir lo siguiente:

> "Sin embargo las frecuencias de las bandas en las cuales se concede prioridad al servicio móvil marítimo pueden utilizarse para las comunicaciones radiotelefónicas en vías interiores de navegación a reserva de acuerdos entre las administraciones interesadas y aquéllas cuyos servicios, a los que la banda está atribuida, son suceptibles de ser afectados, y teniendo en cuenta la práctica corriente y acuerdos existentes."

ARCHIN

E. FROMMER Président du Groupe de travail 50 Chairman of Working Group 50 Presidente del Grupo de trabajo 50

GENEVA, 1967

Document No. DT/110-E 19 October 1967 Original: English

WORKING GROUP 5A

TENTATIVE ADVANCE DRAFT FOR WORKING GROUP 5A

DRAFT RESOLUTION No ...

relating to the introduction of single sideband techniques in the radiotelephone maritime mobile service bands between 1605 and 4000 kc/s

The Administrative Radio Conference to deal with matters relating to the maritime mobile service, Geneva, (1967),

considering

a)

b)

<u>c</u>)

Recommendation No. 28 of the Administrative Radio Conference, Geneva (1959);

the decision reached by the present Conference to require the use of single sideband techniques, except under certain circumstances;

the desirability of replacing double sideband emissions by single sideband emissions as early as possible in the maritime mobile service bands between 1605 and 4000 kc/s;

resolves that

unless otherwise specified in the Final Acts of this Conference, radiotelephone stations in the maritime mobile service operating in the bands between 1605 and 4000 kc/s shall comply with the conditions set out in the following provisions:

Document No. DT/110-E Page 2

after \int \int , the installation of double sideband equipment shall not be permitted at ship stations, with the exception of the cases covered by Regulations Nos. 984, 987 \int and 1323 \int ;

however, administrations shall endeavour to discontinue the installation of double sideband equipment at the earliest possible date after the Final Acts of this Conference come into force;

coast stations shall provide some single sideband capability at the earliest possible date, and shall discontinue double sideband emissions as early as possible, but, in any case, not later than 1 January 1975;

further resolves

that Recommendation No. 28 of the Administrative Radio Conference, Geneva (1959), be abrogated.

3.

4.

2.

GENEVA, 1967

Document No. DT/111-E 19 October 1967 Original : French

WORKING GROUP 6A

DRAFT

OF EIGHTH REPORT OF WORKING GROUP 6A

TO COMMITTEE 6 (OPERATION)

- LIST V - LIST OF SHIP STATIONS -

Working Group 6A has examined the suggestions submitted by the Secretary-General in Document No. 119 and <u>recommends</u> that Committee 6 take the following decisions :

1. The List of Ship Stations (List V) will be published with the aid of the I.T.U. computer, starting with the 1969 edition.

2. Studies will be continued to investigate the possibilities of improving, by an intermediate process, the layout of List V as compared with that obtained by direct printing of the computer lists. In deciding on what the final solution shall be, (direct printing or intermediate processes), the Secretary-General shall take account of the need for perfect legibility and minimum sales costs.



GENEVA, 1967

Document No. DT/112-E 20 October 1967 Original : English

WORKING GROUP 6A AD HOC

SELECTIVE CALLING SYSTEMS

TERMS OF REFERENCE OF WORKING GROUP 6A AD HOC

Working Group 6A constituted an ad hoc Group under the Chairmanship of the delegate of the Netherlands and in which the delegations of the following countries requested to participate: the United States of America, France, Japan, Norway, Federal Republic of Germany, the United Kingdom and the U.S.S.R.

The terms of reference are:

On the bases of the decisions taken by Committees 4 and 5 on the technical aspects and choice of frequencies (Document No. 275 refers), to consider the proposals for the elaboration of provisions introducing the use of selective calling systems for the maritime mobile service.

It was agreed that the proposals in question are G/91(48 - 53), F/109(92) and G/113(57, 58) and that this list is not necessarily exhaustive.

A. CHASSIGNOL Chairman



GENEVA, 1967

Document No. DT/113-E 20 October 1967 Original : French, English, Spanish

COMMITTEE 4

DRAFT

FIFTH REPORT OF COMMITTEE 4

Subjects : Resolution relating to the implementation of the new arrangement of radiotelegraphy and radiotelephony bands allocated to the maritime mobile service between 4 000 and 23 000 kc/s. Article 9. No. 573

> Resolution relating to the transfer of certain frequency assignments for coast radiotelegraph stations in the frequency bands allocated exclusively to the maritime mobile service between 4 000 and 23 000 kc/s.

Recommendation relating to transmission by television of port radar images.

Draft Recommendation concerning harmonic relationship and channel spacing in the ships' radiotelegraph high frequency bands.

1. The Resolution relating to the implementation of the new arrangement of radiotelegraphy and radiotelephony bands allocated to the maritime mobile service between 4 000 and 23 000 kc/s (Annex I) has been provisionally adopted by Committee 4 and is submitted for final approval.

2. The modification of Article 9, No. 573 and the Resolution relating to the transfer of certain frequency assignments for coast radiotelegraph stations in the frequency bands allocated exclusively to the maritime mobile service between 4 000 and 23 000 kc/s (Annex II) has been agreed to in principle and is submitted for further consideration by the Committee.



The Recommendation relating to transmission by television of port radar images (Annex III) has been <u>unanimously adopted</u> by Committee 4.

The Draft Recommendation concerning harmonic relationship and channel spacing in the ships' radiotelegraph high frequency bands (Annex IV) has been <u>unanimously agreed</u> to by the <u>ad hoc</u> Group established to study the matter and is submitted for approval of the Committee.

> F.G. PERRIN Chairman

Annexes: 4

3.

Document No. DT/113-E Page 3

ANNEXI

RESOLUTION No. ...

Relating to the Implementation of the new arrangement of Radiotelegraphy and Radiotelephony Bands allocated to the Maritime

Mobile Service between 4 000 and 23 000 kc/s

The World Administrative Radio Conference, Geneva, 1967,

considering that

each of the HF radiotelegraphy and radiotelephony bands allocated to the maritime mobile service by the Ordinary Administrative Radio Conference, Geneva, 1959, has been re-adjusted to make additional channels available for radiotelephony;

a considerable number of both ship and coast stations will be transferred from existing frequencies to the new frequencies and channels designated by this Conference;

changes in frequency assignments should be made in the minimum time necessary so that the advantages of the re-adjustment of bands may be realized at the earliest opportunity;

the transfer of assignments should be made with the least possible disruption of the service rendered by each station;

the transfer of assignments should be made in such a manner that harmful interference is avoided among stations affected during the implementation period;

resolves

that the implementation of the actions taken by this Conference relating to the re-adjustment of the HF bands allocated to the maritime mobile service should follow an orderly procedure for the removal of existing and the introduction of new operations;

2.

<u>a</u>)

<u>b</u>)

<u>c</u>)

d)

<u>e</u>)

1.

that Administrations shall make every effort to undertake implementation in accordance with the schedule in Annex A.

Annex : 1

Annex I to Document No. DT/113-E Page 4

Annex A

) S	tep of implementation	Beginning date	Completion date
	Vacate low traffic ship working channels 85 to 98 Shift coast telegraph	As soon as possible (In accordance with	
	stations to new assign- ments made available by Step 1	Resolution No / Annex III_7 2 February 1970)	
<u>Step 3</u>	Coast telephone stations may use channels vacated by coast telegraph stations (Step 2)	1 Ma rc h 1970	

Annex I to Document No. DT/113-E Page 5

·			
S	tep of implementation	Beginning date	Completion date
<u>Step 1</u>	Shift high traffic tele- graphy (Al) ship stations to newly assignable frequencies	l January 1969	30 June 1969
<u>Step 2</u>	Shift printer systems to the new printer bands	l July 1969	31 October 1969
<u>Step 3</u>	Upward shift, as appropriate of wideband systems	l November 1969	31 De c embe r 1969
Step 4	Shift simplex use of Appendix 15B frequencies	l January 1970	28 February 1970
<u>Step 5</u>	Stations may commence use of new simplex and duplex ship channels	1 March 1970	
			•.

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Document No. DT/113-E

Page 6

ANNEX II

<u>Article 9</u>

MOD 5

573 § 26. (1) Frequency Bands :

	10	-	2	850	kc/s			
3	155		3	400	kc/s			
3	500	-	3	900	kc/s	in	Region	1
3	500	-	4	000	kc/s	in	Region	2
3	500		3	950	kc/s	in	Region	3
4	231	-	4	361	kc/s	·		
6	345.5	-	6	514	kc/s			
8	459.5	-	. 8	728.	5 kc/	/s		
12	689	_	13	107	.5 kc/	/s		
16	917.5	-	17	255	kc/s			
2 2	374	-	22	624.	5 kc/	/s		

RESOLUTION No. ...

Relating to the Transfer of certain Frequency Assignments for Coast Radiotelegraph Stations in the Frequency

Bands allocated exclusively to the Maritime Mobile Service between 4000 and 23 000 kc/s

The World Administrative Radio Conference to deal with matters relating to the maritime mobile service (Geneva, 1967),

considering

<u>a</u>)

<u>b</u>)

that the frequency band limits for radiotelegraph coast stations have been modified as a result of the revision of appendices 15 and 17;

that the new limits of the frequency bands for coast radiotelegraph stations are :

4 231	- .	4 361	kc/s
6 345.5	<u> </u>	6 514	kc/s
8 459.5		8 728.5	kc/s
12 689		13 107.5	kc/s
16 917.5		17 255	kc/s
22 374	-	22 624.5	kc/s

recognizing

that the re-arrangement of the frequency usage within the frequency bands allocated to the maritime mobile service should

be carried out in several stages and that the transfer of certain coast radiotelegraph station frequency assignments governe any subsequent arrangements and should therefore be one of the phases of the re-arrangement;

<u>resolves</u>

1.

that the frequency assignments to coast radiotelegraph stations which, on the date of entry into force of the Final Acts of this Conference, are recorded in the Master International Frequency Register, shall be transferred as follows :

any frequency assignment f in the 4 361 - 4 368 kc/s band
shall be transferred to the frequency f - 129 kc/s;
any frequency assignment f in the 6 514 - 6 525 kc/s band
shall be transferred to the frequency f - 168 kc/s;
any frequency assignment f in the 8 728.5 - 8 745 kc/s Dend
shall be transferred to the frequency f - 269 kc/s;
any frequency assignment f in the 13 107.5 + 13 130 kc/s
band shall be transferred to the frequency f - 419 kc/s;
any frequency assignment f in the 17 255 - 17 290 kc/s
band shall be transferred to the frequency f - 338 kc/s;
any frequency assignment f in the 22 624.5 - 22 650 kc/s

that, as soon as practicable, the use by low traffic ships of frequencies above 4 229 kc/s, 6 343.5 kc/s, 8 458 kc/s, 12 687 kc/s, 16 916 kc/s and 22 370 kc/s be discontinued, and in any event not later than 1 February 1970;

that between 2 February 1970 and 28 February 1970 administrations shall transfer the transmitting frequencies of their coast radio telegraph stations in accordance with the procedure referred to in 1. above. Administrations shall notify the I.F.R.B. of these transfers, in accordance with the provisions of Section I of Article 9 of the Radio Regulations;

provided that the notices received by the I.F.R.B. in accordance with paragraph 3 above do not contain any change in the basic characteristics of the originally recorded assignment, other than the assigned frequency, the I.F.R.B. shall record the change in the Master Register. The dates to be entered in the appropriate parts of column 2 shall be those of the original assignment. Should any other change be notified in the basic characteristics of the original assignment, it shall be dealt with in accordance with the provisions of Article 9 of the Radio Regulations;

on the I.F.R.B. shall also include in the Master Register, in respect of each original assignment the transfer of which has not at that time been notified to the I.F.R.B., a provisional entry determined in accordance with paragraph 1 above. For such provisional entries, the dates in

2.

3.

4.

column 2 recorded for the original assignment shall be retained. The original entries shall be retained in the Master Register but with a special remark in the "Remarks" column and any dates in column 2a shall be transferred to column 2b;

6.

thirty days after, the I.F.R.B. shall send to those administrations which have not yet notified the transfer of frequency assignment to their coast radiotelegraph stations in accordance with paragraphs 1 and 3 above, an extract from the Master Register showing the relevant entries contained therein on their behalf, and shall remind them of the provisions of this Resolution;

if, sixty days after the despatch of these extracts, an administration has still not notified to the I.F.R.B. the transfer of an existing assignment in accordance with paragraphs 1 and 3 above, the corresponding provisional new entry shall be deleted from the Master Register and the original entry shall be retained with its date in column 2b and a special remark in the "Remarks" column; if, however, the administration concerned notifies the transfer during the sixty days period, the provisions of paragraph 4 above shall apply;

in those cases where the foregoing transfer procedure will result in an increase in the probability of a specific frequency assignment causing or experiencing harmful interference, the I.F.R.B. shall render such assistance as will be necessary to the administrations concerned in order to solve the problem. In doing so, the I.F.R.B. shall apply the provisions of No. 534 or Nos. 629 to 633 of the Radio Regulations, as the case may be.

8,

ANNEX III

RECOMMENDATION

Relating to transmission by television of port radar images to ships

The World Administrative Radio Conference, Geneva, 1967, considering

that there may be a future requirement for the transmission by television of port radar images from shore to ships, in congested waters;

that the table of frequency allocations does not provide spectrum for this purpose;

recommends

<u>a</u>)

<u>b</u>)

1.

2.

3.

that as a matter of urgency, administrations and the Inter-Governmental Maritime Consultative Organization study the operational need and parameters for such systems and inform the Secretary-General of the results of these studies;

that if such an operational need does exist the C.C.I.R. be invited to determine the most suitable order of frequencies required for this purpose, and the technical parameters to be met by such systems;

that administrations be prepared to take a decision in this matter at the next competent World Administrative Radio Conference.

ANNEX IV

DRAFT RECOMMENDATION

Concerning harmonic relationship and channel spacing in the ships'

radiotelegraph high frequency bands

The World Administrative Radio Conference to deal with matters relating to the maritime mobile service (Geneva, 1967),

considering

<u>a</u>)

<u>b</u>)

<u>c</u>)

1.

that there is an urgent need for all services to utilize the High Frequency spectrum with maximum efficiency;

that the continued use of the harmonic relationship and the existing channel spacings may not in the future promote the fullest use of the frequency spectrum in particular in the upper bands allocated to the exclusive maritime mobile service for ships' radiotelegraph stations;

that new developments and advances in techniques, in frequency synthesizers for example, are leading to more stable and reliable radiocommunication equipment;

<u>d</u>) that any organized change of equipment for ships may require a period of some 20 years taking into account the time required for development and amortization;

recommends

that administrations should study, in the light of advancing techniques, the problems relating to the future use of

harmonic relationship in the ships' radio equipment and to the determination of the optimum spacing and number of channels in the bands allocated for calling, high and low traffic, as indicated in Appendix 15A, and should submit their proposals for the consideration of the next World Administrative Radio Conference competent to deal with the matter;

that Administrations should study whether the fact that ships stations use synthesized transmitters will make it advantageous to modify the present method as far as low traffic ships are concerned to allow more flexibility in the choice of actual working frequencies.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/114-E 20 October 1967 Original : French, English

WORKING GROUP 5A

PROPOSED AMENDMENTS IN SECTION A OF APPENDIX 17 IN ACCORDANCE WITH DOCUMENT No. DT/81



Document No. DT/114-E

4 422.2

4 428.6

10

11

4 123.6

4 129.9

8 789.6

8 796.0

8 255.6

8 261.9

SECTION A

Page 2

4 Mc/s Band 8 Mc/s Band 12 Mc/s Band 16 Mc/s Band 22 Mc/s Band Series No. Ship Coast Coast Ship Coast Ship Coast Ship Coast Ship station frequency 4 364.7 4 066.1 8 732.1 8 198.1 13 112.5 12 333.5 17 258.5 16 463.5 22 629.0 22 003.5 1 8 204.4 4 371.0 4 072.4 8 738.4 13 119.5 12 340.5 17 265.5 16 470.5 22 636.0 22 010.5 2 8 744.8 8 210.8 4 377.4 4 078.8 13 126.5 12 347.5 16 477.5 22 643.0 3 17 272.5 22 017.5 4 383.8 4 085.2 8 751.2 8 217.2 16 484.5 22 024.5 4 13 133.5 12 354.5 17 279.5 22 650.0 4 390.2 4 091.6 8 757.6 8 223.6 13 140.5 12 361.5 17 286.5 16 491.5 22 657.0 22 031.5 5 6 4 396.6 4 098.0 8 764.0 8 230.0 13 147.5 12 368.5 17 293.5 16 498.5 22 664.0 22 038.5 4 403.0 4 104.4 8 770.4 8 236.4 13 154.5 12 375.5 17 300.5 16 505.5 22 671.0 22 045.5 7 22 678.0 8 4 409.4 4 110.8 8 776.8 8 242.8 13 161.5 12 382.5 17 307.5 16 512.5 22 052.5 13 168.5 22 685.0 22 059.5 4 415.8 4 117.2 8 783.2 8 249.2 12 389.5 17 314.5 16 519.5 9

13 175.5

12 396.5

17 321.5

16 526.5

Table of Duplex Double Sideband Transmitting Frequencies (in kc/s)

22 692.0

22 066.5

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/115-E 21 October 1967 Original : English

WORKING GROUP 6A

Article 35, Section II

SUP 1347

ADD 1348A

Submitted by the Delegation of Denmark as a basis for discussion

ADD

Under exceptional circumstances, if frequency usage according to Nos. 1343 - 1345 or No. 1348 is not possible, a ship station may use one of its own assigned national ship-to-shore frequencies for communication with a coast station of a foreign nationality, under the express condition that the coast station as well as the ship station by virtue of No. 1217 take precautions to ensure that the use of such a frequency will not give rise to harmful interference to the service for which the frequency in question is authorized.

1348A

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Decument No. DT/116-E 23 October 1967 Original : French, English, Spanish

COMMITTEE 4

DRAFT

SEVENTH REPORT OF COMMITTEE 4

Subject : Appendix 15

1. Annex 1 is consequential to changes agreed upon in Committee 5 to delete Section B of Appendix 15.

2. Annex 2 is the new table of ship radiotelegraph frequencies. This table has been approved by a majority in Committee 4.

F. G. PERRIN

Chairman of Committee 4

Annexes : 2



ANNEX 1

APPENDIX 15

Table of Frequencies to be used by Ship stations in the bands between 4 and 27.5 Mc/s allocated exclusively to the maritime mobile service (see Article 32).

In the table :

<u>a</u>)

MOD

the assignable frequencies in a given band for each usage are :

- indicated by the lowest and highest frequency, in heavy type, assigned in that band;

- regularly spaced, the number of assignable frequencies and the spacing in kc/s being indicated in italics;

b) the vertical arrows indicate the harmonic relationship between the frequencies assigned in the different bands.

ANNEX 2

FREQUENCIES ASSIGNABLE TO SHIP RADIOTELEGRAPH STATIONS USING THE MARITIME MOBILE SERVICE BANDS BETWEEN 4 AND 27.5 Mc/s

MOD APP 15

kc/s

Bands Mc/s	Limits	Assignable fre- quencies wide- band telegraph, facsimile and special trans-	Limits	Oceanographic data transmission *	Limits	Assignable work- ing frequencies for direct printing tele- graph and data	Limits	Assignable working frequencies for high traffic ships **	Limits	Calling frequencies ****	Limits	Assignable working frequencies for low traffic ships Group A Group B	Limits
4	4142.5	mission system 4144.54160.5 5 frequencies spaced 4	4162.5	4162.94165.6 10 frequencies spaced 0.3	4166	systems 4166.54172 12 frequencies spaced 0.5	4172.25	4172.54177.5 11 frequencies spaced 0.5	4178	4178.54186.5 17 frequencies spaced 0.5y	4187	4187.54208 v 4208.54229 84 frequencies spaced 0.5 v	4231
6	6216.5	6218.56242.5 7 frequencies spaced 4	6244.5	6244.96247.6 10 frequencies spaced 0.3	6248	6248.56258 20 frequencies spaced 0.5	6258,25	6258.756266.25	6267	6267.756279.75 17 frequencies Vspaced 0.75	6280.5	6281.256312 6312.756343.5 84 frequencies spaced 0.75	6345.5
8.	8288	82908326 10 frequencies spaced 4	8328	8328.48331.1 10 frequencies spaced 0.3	8331.5	83328341.5 20 frequencies spaced 0.5	8341.75	834283458355	8356	8357***.8373 17 frequencies spaced 1 V	8374	83758416 84178458 84 frequencies spaced 1	8459.5
12	12431.5	12433.512477.5 12 frequencies spaced 4	12479.5	12479.912482.6 10 frequencies spaced 0.3	12483	1248412503 20 frequencies spaced 1	12503.25	125041251312516.7512532.5	12534	12535.512559.5 17 frequencies spaced 1.5	12561	12562.512624 12625.512687 84 frequencies spaced 1.5	12689
16	16576	1657816634 15 frequencies spaced 4	16636.5	16636.916639.6 10 frequencies spaced 0.3	16640	1664116660 20 frequencies spaced 1	16660.5	16662 16672166841669016710	16712	1671416746 17 frequencies spaced 2	16748	1675016832 1683416916 84 frequencies spaced 2	16917.5
22	22112	2211422158 12 frequencies spaced 4	22160.5	22160.922163.6 10 frequencies spaced 0.3	22164	2216522184 20 frequencies spaced 1	22184.5	22187 22221 18 frequencies, spaced 2	22222.5	2222522265 17 frequencies spaced 2.5	22267.5	2227022320 22322.522370 41 frequencies spaced 2.5	22374

Assignable frequencies to ships of all categories

Limits Calling frequencies Limit Working frequencies 25 25070 25082.5 25084 6 frequencies, spaced 1.5 16 frequencies, spaced 1.5 .

* The frequency bands may also be used by buoy stations for ocean data transmission and by stations interrogating these buoys, in accordance with the conditions set forth in Resolution No. ... /Annex 3 to Document No. 270/.

*** For particulars concerning the use of 8364 kc/s, see No. 1179.

**** The frequencies 4186.5, 6279.75, 8373, 12559.5, 16746 and 22262.5 kc/s may also be assigned as special calling frequencies. Administrations shall, if possible, abstain from assigning these frequencies as normal calling frequencies.

** Manual or automatic Al morse telegraphy at speeds not exceeding 40 bauds.

Annex to Document No. DT/116-E Page 3

Limit
 25110

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/117-E 21 October 1967 Original : English

WORKING GROUP 5A

DRAFT EIGHTH REPORT OF WORKING GROUP 5A

TO COMMITTEE 5

I. Time-table for the transition to SSB in the bands between 1.650 and 4000 kc/s

The Working Group decided that the conversion to SSB techniques - should be scheduled as follows :

1. It was unanimously agreed that, as from 1 January 1973, installation on board ships of DSB equipments should be forbidden but that the administrations should try to avoid installing SSB equipments on board ships from the time the new regulations come into force.

2. It was also unanimously agreed that coast stations should cease DSB emissions entirely as from 1 January 1975.

3. It was decided that from 1 January 1980, only classes of emissions A3A and A3J should be authorized except on frequency 2 182 kc/s on which A3 or A3H emissions should continue to be authorized for ship, aircraft and survival craft stations. It was also decided that class A3H should continue to be required for coast stations transmitting on 2 182 kc/s - and on / kc/s / for safety messages only - . Furthermore it was agreed that class A2H emissions should be permitted on / for selective calling from coast stations.

The decision resulted from the fact that most of the delegations had declared that they could go along with the dates of 1 January 1980, even if quite a few wanted an earlier date and some of them would prefer a later date. Only Denmark, Greece and the Federal Republic of Germany then said that they could not accept such an early date. The decisions were taken in the order of paragraphs 3, 2 and 1. When the date of paragraph 1 of 1 January 1973 for cessations of installations of DSB equipments on board ship was decided some delegations felt that the date of the total transition, 1 January 1980, should be discussed once more. The Working Group decided, however, not to start new discussion on the subject within the Working Group. Then the delegations of <u>Italy</u>, <u>Denmark</u>, <u>Cuba</u> and <u>Portugal</u> which were in favour of the date 1 January 1983, reserved their right to re-open the discussion when the report was submitted to Committee 5.



It was further decided that the provisions concerning the transition to SSB in the MF bands would be the subject of a draft Resolution, the text of which appears in Annex 1.

II. Separation between the carrier frequency and the assigned frequency in the $\underline{\text{MF}\ \text{bands}}$

It had been previously agreed that the provisions relating to the separation between the carrier frequency and the assigned frequency which were temporarily included in the new Appendix relating to the technical characteristics of SSB equipments (see Document No. 247) should appear in another part of the Radio Regulations.

Consequently the Working Group decided that these provisions should be contained in a new number 445A, the text of which appears in Annex 2.

III. Conversions to SSB technique in the bands between 1 605 and 4 000 kc/s

It had also been agreed that the provisions concerning the conversion to SSB, of the present DSB channels, which were temporarily included in the same new appendix should appear in a more appropriate part of the Radio Regulations.

It was decided that they should be the subject of a draft Resolution, the text of which appears in Annex 3.

P. AAKERLIND

Chairman

Annexes : 3

Document No. DT/117-E

Page 3

ANNEX 1

DRAFT RESOLUTION No. ...

Relating to the Introduction of Single Sideband Techniques in the Radiotelephone Maritime Mobile Service Bands between 1605 and 4000 kc/s

The Administrative Radio Conference to deal with matters relating to the maritime mobile service, Geneva (1967),

considering

Recommendation No. 28 of the Administrative Radio Conference, Geneva (1959);

the decision reached by the present Conference to require the use of single sideband techniques, except under certain circumstances;

the desirability of replacing double sideband emissions by single sideband emissions as early as possible in the maritime mobile service bands between 1605 and 4000 kc/s;

resolves that

unless otherwise specified in the Final Acts of this Conference, radiotelephone stations in the maritime mobile service operating in the bands between 1605 and 4000 kc/s shall comply with the conditions set out in the following provisions :

<u>c</u>)

<u>a</u>)

<u>b)</u>

after 1 January 1973, the new /or replacement/ installation of double sideband equipment shall not be permitted at ship stations, with the exception of the cases covered by Regulations Nos. 984, 987 /and 1323/;

however, administrations shall endeavour to discontinue the installation of double sideband equipment at the earliest possible date after the Final Acts of this Conference come into force;

coast stations shall provide some single sideband capability at the earliest possible date; furthermore, they shall discontinue double sideband emissions as early as possible, but, in any case, not later than 1 January 1975;

ship and aircraft stations required to employ SSB operation on working frequencies shall use only A3H on 2182 kc/s after 1 January 1980.

further resolves

that Recommendation No. 28 of the Administrative Radio Conference, Geneva (1959), be abrogated.

1.

2.

3.

4.

2 ANNEX

ARTICLE 7

g ll bis (1). The assigned frequency of a single sideband channel of a station in the radiotelephone maritime mobile service shall be 1 400 c/s higher than the carrier frequency. ADD 445A

ANNEX 3

DRAFT RESOLUTION No. ...

Relating to the Conversion to Single Sideband Technique of Stations of the Radiotelephone Maritime Mobile Service operating as in the

bands between 1 605 and 4 000 kc/s

The Maritime Conference, Geneva 1967,

considering

that double sidebond radiotelephone stations in the maritime mobile service operating in the bands between 1 605 and 4 000 kc/s use a bandwidth of the order of 6 kc/s;

that these stations will have to use single sideband technique in future;

that during the period of conversion to single sideband technique, every precaution must be taken to avoid harmful interference between stations operating with double sideband and those operating with single sideband;

resolves

that the transition to single sideband technique in the stations referred to in considerandum 1 above shall be made in accordance with the following provisions :

- 1) the carrier frequency of the single sideband channel in the upper part of the previous double sideband channel shall be the same as the carrier frequency of that channel;
- 2) the carrier frequency of the single sideband channel in the lower part of the previous double sideband channel shall be 3.0 kc/s lower than the carrier frequency of the previous double sideband channel when the latter has a carrier frequency at least 6 kc/s above that of the lower adjacent radiotelephone channel;

3) - $f_{\bullet \bullet \bullet \bullet}$ (5 kc/s channels Region 1) \dots

emissions in class A3H shall not be used on single sideband channels derived from the lower portion of previous double sideband channels.

<u>a</u>)

<u>b</u>)

1.

2.

MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/118-E 21 October 1967 Original : English

WORKING GROUP 6A

REPORT OF WG 6A AD HOC. TO WG 6A

SELECTIVE CALLING DEVICES

1.

Working Group 6A ad hoc met twice under the Chairmanship of Mr. C.J.T. Westerterp (Netherlands). The delegations of the following countries participated in the work of the Group : The United States of America, France, Japan, Norway, Federal Republic of Germany, the United Kingdom, the U.S.S.R. and Yugoslavia.

The terms of reference were :

On the bases of the decisions taken by Committees 4 and 5 on the technical aspects and choice of frequencies (Document No. 275 refers), to consider the proposals for the elaboration of provisions introducing the use of selective calling systems for the maritime mobile service.

2. The Group <u>unanimously agreed</u> to recommend the adoption of the provisions appearing in the Annex attached hereto, subject to the comments below.

3. The delegate of Japan wished to record his understanding that the provisions of Article 28A apply only to the international selective calling system and are not mandatory for national systems.

4. Article 28A ADD 999F

4.1 The delegate of the United States wished to invite attention to the statements of his and other delegations recorded in the Fourth Report of Committee 4, Document No. 275, on pages 2 and 3.

4.2 The delegate of the United Kingdom announced that his delegation would wish to record a statement in Committee 6 when these provisions were adopted.



Since the proposals of the United Kingdom (Documents Nos. 91 and 113) had been used as a basis for the work of the Group, the delegation of the United Kingdom proposed, and the Group <u>unanimously agreed</u>, to invite the delegation of France to make any comments it may wish in WG 6A after having had the possibility of studying the present report.

C.J.T. WESTERTERP

Chairman

Annex : 1

ANNEX

Article 19

Section I

§ 2. A station shall be identified either by a call sign or other recognized means of identification. Such recognized means of identification may be one or more of the following necessary for complete identification: name of station, location of station, operating agency, official registration mark, flight identification number, ship's selective call number, coast station identification numbers, characteristic signal, characteristic of emission or other clearly distinguishing features readily recognized internationally.

Section II

S 11. (1) Each country shall choose the call signs, the ship's selective call number and the coast station identification number of its stations from the international series allocated to it, and shall, in accordance with Article 20, notify to the Secretary-General the call signs which it has assigned together with the information which is to appear in Lists I to VI inclusive. These notifications do not include call signs assigned to amateur and experimental stations.

Section III

(2) Ship stations

-- a call sign (see Nos. 765 and 766); or

- the official name of the ship preceded, if necessary, by the name of the owner on condition that there is no possible confusion with distress, urgency and safety signals;

or

- its selective call numbers

(G/91(48)) MOD 737 (DT/2, p.117)

MOD

750

p.117)

	MOD	776
(DT/2, p.125)		. ·
(G/ 91(48))		

	<u>Article 1</u>	9 (cont.)	
(G/91(49))	ADD		New Section IVA
(DT/2, p.126)	ADD		Heading:
Perroy	-		Selective Call Numbers in the Maritime Mobile Service
(F/109(92)) (ex. 788A) (DT/2, p.128)	ADD	783a	$\frac{5}{5}$ l. When stations of the maritime mobile service use selective calling devices, their call numbers shall be assigned by the responsible administrations in accordance with the provisions below.
(G/91(49))	ADD_		Sub-heading:
(DT/2, p.126)			Formation of ship's selective call numbers and coast station identification numbers
(ex. 783A)	ADD	783B,	$\frac{1}{5}$ 25(bis) (1) The ten digits from 0 to 9 inclusive shall be used to form selective call numbers.
(ex. 783B)	ADD	7830	(2) However, combinations of numbers commencing with the digits OO (zero, zero) shall not be used when forming the identification numbers for coast stations.
(ex. 783C)	ADD	783D	(3) Ship's selective call numbers and coast station identification numbers in the international series are formed as indicated in Nos. 783E, 783F and 783G.
(G/91(49)) (ex. 783D)	ADD	783E	(4) Coast station identification numbers
(ex. (0,0))			- four figures (see No. 783C)
(ex. 783E)	ADD	783F	(5) Ship stations selective call numbers
		•	- five figures
(ex. 783F)	ADD	783G	(6) Predetermined groups of ship stations
·			- five figures, as listed in No. 783M

Article 19 (cont.)

(ex. DT/2, p.126)

ADD 783H

ADD

Allocation of International Series and Assignment of Ship's Selective Call Numbers and Coast Station Identification Numbers

§ 25 ter. (1) Where selective call numbers and coast station identification numbers are required for ships and coast stations open to the international public correspondence service they shall be given from the series allocated to each country by the Secretary-General. Upon notification by an administration of the introduction of selective calling for international use in the maritime mobile service, selective call numbers for ships will be allocated as required in blocks of 100 (one hundred); coast station identification numbers will be allocated in blocks of 10 (ten) to meet actual requirements.

783I

(2) Each administration shall choose the selective call numbers to be assigned to its ship stations from the blocks of the international series allocated to it and shall (in accordance with Article 20) notify to the Secretary-General the selective call numbers which it has assigned for inclusion in List V.

783J

(3) Each administration shall choose the coast station identification numbers to be assigned to its coast stations from the blocks of the international series allocated to it and shall (in accordance with Article 20) notify to the Secretary-General the coast station identification numbers which it has assigned for inclusion in List / IVA /.

(G/91(50)) (DT/2, p.207)	ADD		<u>Article 28A</u> <u>Selective Calling in the</u> <u>Maritime Mobile Service</u>
(G/113(58))	ADD	999B	§ 1. The characteristics of the international selective calling system ¹ shall be in accordance with Appendix $\angle 200$
		x ,	Method of Calling
(G/91(50)) (DT/2,	ADD	999C	§ 2. (1) The call shall consist of:
p.207)			- the selective call number of the ship station called;
	• • •		- the identification number of the coast station calling if included in the call;
		•	- the whole transmitted twice.
	ADD	999D	(2) When a station called does not reply, the call should not normally be repeated until after an interval of at least five minutes and should not then normally be renewed until after a further interval of 30 minutes.
			Reply to Calls
	ADD	999E	§ 3. The reply to calls should be made in accordance with:
			Nos. 1022-1023 when using radiotelegraphy;
			Nos. 1241-1253 when using radiotelephony.
			
	l ADD	999B.1	<u>Committee</u> <u>6</u> <u>recognized</u> that the final objective of a single international system could not be attained during the lifetime of the new provisions of the Radio Regulations at present being worked out.

Article 28A (cont.)

Frequencies and Classes of Emission to be used

(G/113(58)) ADD 999F (DT/2, p.207) § 4. Calls shall be radiated on one or more of the following frequencies as appropriate:

Freque	ency	Class d	of En	nission
500	kc/s		A2H	
2 182	kc/s		A2H	
2 170.5	kc/s*		A2H	
_4	ke/s/)			
/ 8	kc/s			
<u>/</u> 13	kc/s)		A2H	
/17	kc/s			
122	kc/s/)		•	
156.8	Mc/s		F2	
-	orking freq	uency)	4011	
purpos	l for this se in the L st Station			(MF and HF) (VHF)

Article 29

1013B

Section III

(G/91(51)) ADD (DT/2, p.218)

×

(4) When selective calling is used in the maritime mobile service, the provisions of Article 28A shall be observed.

At the latest, eight years after the date of entry into force of the revised Radio Regulations, this frequency will replace 2182 kc/s for selective calling.

Article 33

Section III

(ex.G/113(5	9)) ADD	1242A	When a ship station is called by selective calling 2170.5 kc/s (carrier frequency) it shall reply on \angle 2191 kc/s \angle 7 (carrier frequency) where the coast station concerned keeps watch, otherwise on a frequency on which the coast station keeps watch.
(DT/2, p.292)	MOD	1224	(3) When selective calling is used the provisions of Article 28A shall be observed.

<u>Appendix 9</u>

/ The Group agreed to recommend the principle of G/91(53) DT/2, p. 448_/

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/119-E 23 October 1967 Original : French

WORKING GROUP 5B

		PRELIMINARY DRAFT OF ARTICLES 7, 33 AND 35
		Article 7
MOD	447	a) Ship stations, telephony (two-frequency channels)
		4063 - 4139.5 kc/s
		6200 - 6210.4 kc/s
		8195 - 8281.2 kc/s
		12330 - 12421 kc/s
• .		16460 - 16565 kc/s
	÷ .	22000 - 22094.5 kc/s
MOD	448	b) Coast stations, telephony (two-frequency channels)
		4361 - 4438 kc/s
		6513.5 - 6525 kc/s
		8728.5 - 8815 kc/s
		13105 - 13200 kc/s
		17255 - 17360 kc/s
		22624 - 22720 kc/s
MOD	449	c) Ship stations and coast stations, telephony (single-
		frequency channels)
	·	4139.5 - 4142.5 kc/s
		6210.4 - 6216.5 kc/s
	·	8281.2 - 8288 kc/s
		12421 - 12431.5 kc/s
		12421 - 12431.5 kc/s 16565 - 16576 kc/s 10004 5 - 22112 kc/s 10004 5 - 22112 kc/s
		22094.5 - 22112 kc/s GENE

<u>Article 7</u>	(contd.)		. •
SUP	450		
MOD	456 .	\$ 13. (1) Appendix 17 gives the radiotelephone (channels
		of the maritime mobile service in the frequency b	bands
		referred to in Nos. 447, 448 and 449.	

.

,

Article 33 (for Committee 6)

1236 and 1249	The reference to Section B of Appendix 15 should be
	replaced by Reference No. 1352.
	The reference to Appendix 17 should be replaced by a
	reference to Sections A and B of Appendix 17.
1251 and 1295	"The carrier frequency of 6204 kc/s" would be better.

Article 35NOCSection III. Bands between 4000 and 23 000 kc/s.ADDA. Mode of operation of stationsADD1351Ag 13 A. The classes of emission to be used for radio- telephony in the maritime mobile service bands between 4000 and 23 000 kc/s are as follows : a) class $A3^{1}$; or b) classos $A3H^{2}$, A3A and A3J However, unless specified to the contrary in the Regulations [see Nos			
ADD A. <u>Mode of operation of stations</u> ADD 1351A g 13 A. The classes of emission to be used for radio- telephony in the maritime mobile service bands between 4000 and 23 000 kc/s are as follows : a) class A3 ¹ , or b) classes A3H ² , A3A and A3J However, unless specified to the contrary in the Regulations /see Nos		· · · · ·	Article 35
ADD 1351A g 13 A. The classes of emission to be used for radio- telephony in the maritime mobile service bands between 4000 and 23 000 kc/s are as follows : a) class A3 ¹ , or b) classes A3H ² , A3A and A3J However, unless specified to the contrary in the Regulations [see Nos	NOC		Section III. Bands between 4000 and 23 000 kc/s.
<pre>telephony in the maritime mobile service bands between 4000 and 23 000 kc/s are as follows : a) class A3¹, or b) classes A3H², A3A and A3J However, unless specified to the contrary in the Regulations /see Nos // - after 1 January 1972, class A3 emissions shall no longer be authorized for coast stations, and, - after 1 January 1978, class A3H emissions shall no longer be authorized for coast stations and classes A3 and A3H shall no longer be authorized for ship</pre>	ADD		A. Mode of operation of stations
	ADD	1351A	<pre>telephony in the maritime mobile service bands between 4000 and 23 000 kc/s are as follows : a) class A3¹, or b) classes A3H², A3A and A3J However, unless specified to the contrary in the Regulations /see Nos // - after 1 January 1972, class A3 emissions shall no longer be authorized for coast stations, and, - after 1 January 1978, class A3H emissions shall no longer be authorized for coast stations and classes A3 and A3H shall no longer be authorized for ship</pre>

- ADD

1351A-2

- ¹) For the use of class A3B, see Resolution No.
 <u>/</u>Document No. ... <u>7</u>.
 2) The conditions governing the use of class A3H are

Article 35 (continued)			
ADD	1351B	/See Document No. 2147	
MOD		AA. Call, Distress and Safety	
MOD	1352	g 14.(1) Ship stations may use, for calling, one of the following frequencies : 4136.3 kc/s 6204.0 kc/s 8268.4 kc/s 12403.5 kc/s 16533.5 kc/s 22073.5 kc/s	
ADD	1352A	<pre>(2) Coast stations may use, for calling, one of</pre>	
ADD	1352A-1	1) These frequencies may also be used by radiotelegraph	

ese frequencies may also be used by radiotelegraph Ί'n coast stations for selective calling [see No....]

Article 35 (continued)

MOD 1353 § 15.(1) In that part of the Tropical Zone situated in Region 3, 6204 kc/s is reserved for call, reply and safety purposes. It may also be used for messages preceded by the urgency or safety signals and, if necessary, for distress messages.

ADD 1353A (2) In that part of the Tropical Zone situated in Region 2 and extending to parallel 34°S and in that part of the Tropical Zone situated in Region 3 and extending to parallel 50°S, the carrier frequency $\frac{74}{4} \dots \frac{12}{5}$ is reserved for call, reply and safety purposes. It may also be used for messages preceded by the urgency or safety signals and, if necessary, for distress messages.

/Information should perhaps also be given on the classes of emission to be used in both cases (1353 and 1353A) especially after 1 January 1978 - see Document No. 262, page 2/.

ADD 1353B /See 1353A of Document No. 2647.

MOD 1354 /See Document No. 1997.

MOD

1355

\$ 17.(1) For the conduct of duplex telephony, the frequencies of emission of the coast stations and of the corresponding ship stations shall be associated in pairs, as far as possible, as indicated in Sections A and B of Appendix 17.

Article 35 (continued)

MOD	1356	(2) Section C of Appendix 17 indicates the frequencies to be used for the conduct of simplex telephony. The peak envelope power of the coast station transmitters should not exceed 1 kW in these cases.
MOD	1357	The frequencies indicated in Sections A, B and C of Appendix 17 for ship transmissions may be used by ships of all categories, in accordance with traffic requirements.
MOD	1358	/See Document No. 2147

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DRAFT PREAMBLE TO APPENDIX 17

Channels in bands between 4000 and 23 000 kc/s allocated to the radiotelephone mobile service (see Article 35)

For the frequencies used by coast and ship stations in the bands allocated to the radiotelephone maritime mobile service, the channel distribution shall be as indicated in the three sections below :

Section A - Table of double-sideband transmitting frequencies (two-frequency channels), in kc/s.

Section B - Table of single-sideband transmitting frequencies

(carrier frequencies, two-frequency channels) in kc/s.

Section C - Table of single-sideband transmitting frequencies

(carrier frequencies, one-frequency channels), in kc/s.

In the single-sideband channels, the frequencies assigned shall be 1400 c/s above the carrier frequencies.

The technical characteristics of single-sideband transmitters operating in the bands $f_{\text{between 4000}}$ and 23 000 kc/s/ allocated for radio-telephony to the maritime mobile service are shown in Appendix 17A.

One or more series of frequencies in Section A or Section B (with the exception of those mentioned in paragraph 6 below) are assigned to each coast station, which uses the frequencies associated, so far as possible, in pairs; each pair comprises one transmitting and one receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, so far as possible, harmful interference between the services of coast stations.



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The frequencies in Section C are provided for use in common by ships of all classes throughout the world, according to traffic requirements, for ship transmissions to coast stations and for intership communication. They may also be used in common throughout the world for transmissions by coast stations (simplex operation) provided the peak envelope power does not exceed 1 kW.

6.

The following series of frequencies in Section B are reserved for calling :

- Series No. 24 in the 4 Mc/s and 8 Mc/s bands;

- Series No. 2 in the 6 Mc/s band;

- Series No. 22 in the 12, 16 and 22 Mc/s bands.

The other frequencies in Sections A, B and C are working frequencies. The double-sideband frequencies 8269, 12 403.5, 16 533.5 and 22 074 kc/s may be used until $\sqrt{1.1.19787}$.

6a) Stations using double-sideband emissions must operate solely on the frequencies in Section A \angle in accordance with Nos. and (Article 35) $\boxed{7}$.

6b) Stations using single-sideband emissions must operate on the carrier frequencies indicated in Sections B and C, in accordance with the technical characteristics specified in Appendix 17A. These stations must always operate in the upper sideband.

6c) Stations using single-sideband emissions must transmit solely in the A3A and A3J classes of emission $\sqrt{10}$ accordance with Nos.7. 'Until 1.1.1978 Class A3H emissions $\sqrt{10}$ accordance with No. 1351A/ are authorized exclusively on the carrier frequencies in Section B which coincide with the frequencies in Section A or which are not more than 100 c/s from these frequencies.

5.

6d) Assignments to stations utilizing independent sideband emissions shall be considered to comply with the Table in Section A when the necessary bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for double-sideband emissions.

Should an administration authorize the use of frequencies other than those contained in Sections A, B and C, its radiotelephone service must not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequencies specified in the following tables.

7.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

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WORKING GROUP 5B

If the provisions proposed in Document No. DT/114 are adopted, the attached preliminary P_{raft} Resolution could be examined by Working Group 5D or an <u>ad hoc</u> Working Group.



PRELIMINARY DRAFT RESOLUTION No. ..

Relating to the Transfer of Frequency Assignments to Radiotelephone Coast Stations in the Bands allocated exclusively to the Maritime Mobile Service between 4 000 and 23 000 kc/s

The World Administrative Radio Conference, Geneva (1967),

considering

a)

b)

<u>c</u>)

d)

<u>e</u>)

<u>f</u>)

that the frequency allotment plan appearing in Appendix 25 of the Radio Regulations, Geneva, 1959, is to be retained until a new plan is worked out by the Conference mentioned in Recommendation No. ... /Document No. 230/;

that, following the extension of the bands allocated exclusively to the maritime mobile service for radiotelephony, new duplex radiotelephone channels will be made available to the maritime mobile service by means of a new section (Section III) of Appendix 25 (Resolution No. ... /Document No. 230/);

that the separation between the transmitting frequencies of coast and ship stations should be the same in all duplex radiotelephone channels;

that it is generally easier and cheaper to modify transmitting frequencies for coast stations than for ship stations;

that the extension of the bands allocated exclusively to the maritime mobile service for radiotelephony will come into force on 1 March 1970;

that the new channels should be brought into service as soon as possible;

resolves that

the transmitting frequencies appearing in Appendix 25 of the Radio Regulations, Geneva, 1959, for radiotelephone coast stations shall be transferred in accordance with the table of correspondences appearing in Annex I;

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1,

on, the I.F.R.B. shall modify the frequencies appearing opposite the allocations of Appendix 25 appearing in the Master International Frequency Register, in accordance with the table of correspondences given in Annex I;

frequency assignments to radiotelephone coast stations recorded in the Master International Frequency Register as of 1 March 1970 in the channels defined in Appendix 17 of the Radio Regulations, Geneva, 1959, shall be transferred in accordance with the tables of correspondence appearing in Annex I (double sideband or independent sideband emissions (see Resolution No. ... /Document No. 266/)) and Annex II (single sideband emissions);

frequency assignments recorded in the Master Register as of 1 March 1970 outside the channels referred to in Appendix 17 of the Radio Regulations, Geneva, 1959, may be modified so as to retain with respect to the new frequencies specified in Section A of Appendix 17 revised, Document No. DT/1147 the same relative positions they occupied in relation to the frequencies referred to in Appendix 17 of the Radio Regulations, Geneva, 1959;

between 1 March 1970 and 1970, administrations shall modify the transmitting frequencies of their radiotelephone coast stations as indicated in paragraphs 2 and 3 above; they shall notify these modifications to the I.F.R.B. in accordance with Article 9 of the Radio Regulations;

provided that the notification received by the I.F.R.B. in accordance with paragraph 5 above does not involve any change in the basic characteristics of the initial assignment apart from the assigned frequency, the I.F.R.B. shall modify the entry in the Master Register accordingly; the dates to be entered in the appropriate parts of Column 2 shall be those of the initial assignment; if the

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notification involves any other change in the basic characteristics of the original assignment, this modification shall be treated in accordance with the provisions of Article 9 of the Radio Regulations;

on, the I.F.R.B. shall also make a provisional entry in the Master Register in accordance with paragraphs 3 and 4 above for each initial assignment, the transfer of which has not been notified to it by that date; the dates appearing in Column 2 opposite the initial assignments shall be retained in these provisional entries; the original assignments shall be retained in the Master Register, but they shall be accompanied by a special remark in the "Remarks" column, and any dates appearing in Column 2a shall be transferred to Column 2b;

thirty days after, the I.F.R.B. shall send administrations that have not yet notified it of the transfer of frequency assignments to their radiotelephone coast stations in accordance with the provisions of paragraphs 3 or 4 and 5 above, an extract from the Master Register giving information on the entries therein relating to those administrations, and it shall remind them of the provisions of the present resolution;

if, 60 days after the despatch of these extracts, an administration has not notified the I.F.R.B. of the transfer of an existing assignment in accordance with paragraphs 3 or 4 and 5 above, the relevant new provisional entry shall be removed from the Master Register and the original entry shall be retained with the date in Column 2b and a special remark in the "Remarks" column; however, if the administration concerned reports the transfer within these 60 days, the provisions of paragraph 6 shall be applicable.

Annexes : 2

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9.

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ANNEX I

TABLE OF CORRESPONDENCE OF TRANSMITTING FREQUENCIES OF RADIOTELEPHONE COAST STATIONS, IN kc/s

(CLASSES OF EMISSION A3 AND A3B)

4 Mc/s band		8 Mc/s	band	12 Mc/s band		16 Mc/s band		22 Mc/s band	
Old frequencies	New frequencies								
4 371.1	4 364.7	8 748.1	8 732.1	13 133.5	13 112.5	17 293.5	17 258.5	22 653.5	22 929.0
4 377.4	4 371.0	8 754.4	8 738.4	13 140.5	13 119.5	17 300.5	17 265.5	22 660.5	22 636.0
4 383.8	4 377.4	8 760.8	8 744.8	13 147.5	13 126.5	17 307.5	17 272.5	22 667.5	22 643.0
4 390.2	4 383.8	8 767.2	8 751.2	13 154.5	13 133.5	17 314.5	17 279.5	22 674.5	22 650.0
4 396.6	4 390.2	8 773.6	8 757.6	13 161.5	13 140.5	17 321.5	17 286.5	22 681.5	22 657.0
4 403.0	4 396.6	8 780.0	8 764.0	13 168.5	13 147.5	17 328.5	17 293.5	22 688.5	22 664.0
4 409.4	4 403.0	8 786.4	8 770.4	13 175.5	13 154.5	17 335.5	17 300.5	22 695.5	22 671.0
4 415.8	4 409.4	8 792.8	8 776.8	13 182.5	13 161.5	17 342.5	17 307.5	22 702.5	22 678.0
4 422.2	4 415.8	8 799.2	8 783.2	13 189.5	13 168.5	17.349.5	17 314.5	22 709.5	22 685.0
4 428.6	4 422.2	8 805.6	8 789.6	13 196.5	13 175.5	17 356.5	17 321.5	22 716.5	22 692.0
4 434.9	4 428.6	8 811.9	8 796.0						

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ANNEX II

TABLE OF CORRESPONDENCE OF TRANSMITTING FREQUENCIES OF RADIOTELEPHONE COAST STATIONS,

IN kc/s (SINGLE SIDEBAND)

	4 Mc/s	s band		8 Mc/s band				
Old frequencies New frequencies			Old freq	uencies	New frequencies			
Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies	
4 369.4 4 372.5 4 375.7 4 378.8 4 382.1 4 385.2 4 385.2 4 388.5 4 391.6 4 394.9 4 398.0 4 401.3 4 401.3 4 407.7 4 410.8 4 410.8 4 414.1 4 417.2 4 420.5 4 423.6 4 430.0	$\begin{array}{r} 4 \ 368.0 \\ 4 \ 371.1 \\ 4 \ 374.3 \\ 4 \ 377.4 \\ 4 \ 380.7 \\ 4 \ 380.7 \\ 4 \ 383.8 \\ 4 \ 387.1 \\ 4 \ 390.2 \\ 4 \ 393.5 \\ 4 \ 393.5 \\ 4 \ 396.6 \\ 4 \ 399.9 \\ 4 \ 403.0 \\ 4 \ 406.3 \\ 4 \ 409.4 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 415.8 \\ 4 \ 419.1 \\ 4 \ 422.2 \\ 4 \ 425.5 \\ 4 \ 428.6 \end{array}$	4 363.0 4 366.1 4 369.2 4 372.4 4 375.6 4 378.8 4 382.0 4 385.2 4 388.4 4 391.6 4 394.8 4 394.8 4 394.8 4 398.0 4 401.2 4 404.4 4 407.6 4 410.8 4 414.0 4 417.2 4 420.4 4 423.6	1 requencies 4 361.6 4 364.7 4 367.8 4 371.0 4 374.2 4 387.0 4 390.2 4 393.4 4 396.6 4 399.8 4 403.0 4 403.0 4 405.2 4 409.4 4 12.6 4 415.8 4 419.0 4 422.2	8 746.4 8 749.5 8 752.7 8 755.8 8 759.1 8 762.2 8 765.5 8 768.6 8 771.9 8 775.0 8 775.0 8 778.3 8 781.4 8 784.7 8 787.8 8 791.1 8 794.2 8 797.5 8 800.6 8 803.9 8 807.0	8 745.0 8 748.1 8 751.3 8 754.4 8 757.7 8 760.8 9 764.1 8 767.2 8 770.5 8 776.9 8 776.9 8 780.0 8 786.4 8 789.7 8 792.8 8 796.1 8 799.2 8 802.5 8 805.6	Irequencies 8 730.4 8 733.5 8 736.6 8 8 739.8 8 743.0 8 8 743.0 8 8 743.0 8 8 743.0 8 743.0 8 743.0 8 746.2 8 755.8 8 755.8 8 8 755.8 8 755.8 8 765.4 8 8 775.0 8 778.2 8 781.4 8 8 781.4 8 8 791.0 8 8	Irequencies 8 729.0 8 732.1 8 732.2 8 738.4 8 741.6 8 744.8 8 744.8 8 744.8 8 751.2 8 754.4 8 757.6 8 760.8 8 767.2 8 767.2 8 767.2 8 767.2 8 767.2 8 767.2 8 764.0 8 767.2 8 767.2 8 764.0 8 767.2 8 764.0 8 767.2 8 767.4 8 767.2 8 776.8 8 780.0 8 783.2 8 786.4 8 789.6	

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Page 7

TABLE OF CORRESPONDENCE OF TRANSMITTING FREQUENCIES OF RADIOTELEPHONE COAST STATIONS,

12 Mc/s band 16 Mc/s band Old frequencies Old frequencies New frequencies New frequencies Carrier Assigned Carrier Assigned Carrier Carrier Assigned Assigned frequencies frequencies frequencies frequencies frequencies frequencies frequencies frequencies 17 291.6 17 290.2 17 256.4 17 255.0 13 131.6 13 130.2 13 110.4 13 109.0 17 294.9 17 259.9 17 258.5 13 112.5 17 293.5 13 134.9 13 113.9 13 133.5 17 263.4 17 262.0 17 298.6 17 297.2 13 117.4 13 116.0 13 138.6 13 137.2 17 266.9 17 265.5 13 119.5 17 301.9 17 300.5 13 141.9 13 140.5 13 120.9 17 304.2 17 270.4 17 269.0 17 305.6 13 144.2 13 124.4 13 123.0 13 145.6 17 273.9 17 272.5 17 308.9 17 307.5 13 148.9 13 147.5 13 126.5 13 127.9 17 311.2 17 277.4 17 276.0 17 312.6 13 153.6 13 152.2 13 131.4 13 130.0 17 279.5 17 280.9 13 134.9 13 133.5 17 315,9 17 314.5 13 155.9 13 154.5 17 283.0 17 319.6 17 318.2 17 284.4 13 158.2 13 138.4 13 137.0 13 159.6 17 287.9 17 286.5 13 140.5 17 322.9 17 321.5 13 141.9 13 162.9 13 161.5 17 290.0 17 326.6 17 325.2 17 291.4 13 166.6 13 165.2 13 145.4 13,144.0 17 329.9 17 328.5 17 294.9 17 293.5 13 147.5 13 169.9 13 168.5 13 148.9 17 298.4 17 297.0 17 333.6 17 332.2 13 173.6 13 172.2 13 152.4 13 151.0 17 336.9 17 335.5 17 301.9 17 300.5 13 155.9 13 154.5 13 176.9 13 175.5 17 304.0 17 340.6 17 339.2 17 305.4 13 180.6 13 179.2 13 159.4 13 158.0 13 162.9 13 161.5 17 343.9 17 342.5 17 308.9 17 307.5 13 183.9 13 182.5 17 311.0 13 186.2 13 166.4 13 165.0 17 347.6 17 346.2 17 312.4 13 187.6 17 314.5 13 190.9 13 189.5 13 169.9 13 168.5 17 350.9 17 349.5 17 315.9 17 318.0 17 354.6 17 353.2 17 319.4 13 173.4 13 172.0 13 194.6 13 193.2 13 196.5 13 176.9 13 175.5 17 357.9 17.356.5 17 322.9 17 321.5 13 197.9

IN kc/s (SINGLE SIDEBAND)

.

Annex II to Document No. DT/121-E Page 8

TABLE OF CORRESPONDENCE OF TRANSMITTING FREQUENCIES OF RADIOTELEPHONE

COAST STATIONS, IN kc/s (SINGLE SIDEBAND)

.

	22 Mc/s	Band	
Old freq	uencies	New freq	uencies
Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies
22 651.6 22 654.9 22 658.6 22 661.9 22 665.6 22 668.9 22 672.6 22 675.9 22 679.6 22 682.9 22 686.6 22 689.9 22 686.6 22 693.6 22 703.9 22 700.6 22 703.9 22 710.9 22 714.6 22 717.9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22 626.9 22 630.4 22 633.9 22 637.4 22 640.9 22 644.4 22 647.9 22 651.4 22 654.9 22 658.4 22 661.9 22 665.4 22 668.9 22 672.4 22 675.9 22 679.4 22 682.9 22 686.4 22 689.9 22 693.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/122-E 23 October 1967 Original : English

WORKING GROUP 5A

USE OF 2170.5 AND 2191 kc/s

Summary of general discussions on the use

2170.5

(See also DI/89)

Region 1

Coast calling ships with A3A and A3J, also selcall with A2H and, exceptionally, coast stations sending safety messages with A3H. No special limit for power. (POL wants max. 400 W P_{p} .)

Regions 2 and 3

Communication shore—ship and intership with A3A and A3J, max. 400 W P_p . Some Region 3 countries want also to use it as a supplementary channel for calling. AUS and many others want it for maritime mobile service without further specification. Some Region 1 countries think that only calling and distress is allowed as the table, Art. 5, is unchanged. See, however, No. 201, MOD, Document No. 303.

2191.0

Region 1

Ships calling coast stations, when 2182 kc/s is used for distress.

<u>Regions 2 and 3</u> Maritime mobile service, max. 400 W P_p without further specification. Objection from some Region 1 countries as above.



Document No. DT/122-E Page 2

Tentative advance drafts

Article 7

MOD	442	legion 1
		170 -2173.5 kc/s : Coast stations calling ship stations
		(including selective calling);
		exceptionally coast stations trans-
		mitting safety messages.
		173.5-2190.5 kc/s : As accepted in Document No. 201.
		190.5-2194 kc/s : Ship stations calling coast stations.
Article 33	 •	

ADD	1227AA	(A radiotelephone ship station calling
		a coast station of its own nationality
		should use for the call)
		c) the carrier frequency 2191.0 kc/s
		(assigned frequency 2192.4 kc/s),
		when 2182 kc/s is used for distress.
		(See also Nos. 1341 and 1322A1)
ADD	1235A	As in DT/74, but only 2170.5 kc/s.
MOD	1233	As in $DT/74$.
	1233A	Delete, (covered by 1235A),
	1242A and 1248A	As in DT/74? but insert frequencies.

Article 35

ADD 1322A1 Transmissions in the bands 2170-2173.5 and 2190.5-2194 kc/s respectively with carrier frequency 2170.5 kc/s (assigned frequency 2171.9 kc/s) and carrier

Document No. DT/122-E Page 3

ADD	1322Al (cont.)	frequency 2191 kc/s (assigned frequency 2192.4 kc/s)
	(cont.)	are limited to emissions of Class A3A and A3J.
		(Already approved, Document No. 236.)
	New	However, for special purposes /, in Region 1,/ also
		Class A2H and, exceptionally, A3H may be used.
ADD	1342A	(Region 1?) The frequency band 2170-2173.5 kc/s with
		carrier frequency 2170.5 kc/s (assigned frequency
		2171.9 kc/s) may also be used with Class A2H emissions
		by coast stations for selective calling and, exceptionally,
		with Class A3H emissions for safety messages from coast
		stations.
NOC	1336	The latter part of proposed text in DT/99 ought to be
		transferred to 1336A, Document No. 303.
		Proposal No. J/84(20), DT/2, page 336 withdrawn?
ADD	1336A	The latter part in Document No. 303, left in abeyance,
		should stand either as it is or with the text of the
		latter part of proposed 1336 in DT/99.
ADD	1339A1	As in DT/74, but insert frequencies.
ADD	1339A2	As in DT/74, but insert frequencies. Partly covered
		by 1227AA.
ADD	1339AA	As in $DT/74$, but insert dates for transition period.
		1339AA ought to come before 1339A2.
ADD	1339A3	DT/74. Regions 2 and 3? Ought then to be renumbered
	В	1351A.
	C	
MOD	1344	See Document No. 247. Possibly 2170.5 kc/s as a working
		frequency ship to shore.
	1344A	DT/74. Withdrawn?
	1351	DT/74. Withdrawn?

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/123-E 23 October 1967 Original : French, English, Spanish

COMMITTEE 4

DRAFT

EIGHTH REPORT OF COMMITTEE 4

Subjects : Annex I : Article 7, Nos. : 438A, 441, 451, 451A, 451B, 452, 452.1, 453 and 453.1

Article 12, No. : 677

Article 28, Nos. : 955, 956, 964A, Section III (title after No. 970) and 971

Article 32, Nos. : 1137, 1138, 1147 and 1191E

Annex II : Appendix 10 OD and OE

Annex III : Appendix 20B

1. The texts in Annexes I, II and III have been <u>unanimously adopted</u> by Committee 4.

F.G. PERRIN

Chairman of Committee 4

Annexes : 3



Document No. DT/123-E Page 2

ANNEX Ι

		Article 7, Section IV
ADD	438A	§8A. As a general rule, the separation between adjacent frequencies used respectively by coast stations and by ship stations is 4 kc/s.
SUP	441	
MOD	451	(e) Ship stations, wideband telegraphy, facsimile, and special transmission systems.
		4 142.5 - 4 162.5 kc/s 6 216.5 - 6 244.5 kc/s 8 288 - 8 328 kc/s 12 431.5 - 12 479.5 kc/s 16 576 - 16 636.5 kc/s 22 112 - 22 160.5 kc/s
ADD	451A	(e)A Ship stations, oceanographic data transmission (see note shown with one asterisk in Appendix 15A).
	· · · · · · · · · · · · · · · · · · ·	4 162.5 - 4 166 kc/s 6 244.5 - 6 248 kc/s 8 328 - 8 331.5 kc/s 12 479.5 - 12 483 kc/s 16 636.5 - 16 640 kc/s 22 160.5 - 22 164 kc/s
ADD	451B	<pre>(e)B Ship stations, narrow-band direct-printing telegraph and data systems 4 166 - 4 172.25 kc/s</pre>
	· · · · ·	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$

Annex I to Document No. DT/123-E Page 3

		Article 7 - Section IV (cont.)
MOD	452	(f) Ship station, telegraphy
		4 172.25 - 4 231 kc/s
		6 258.25 - 6 345.5 kc/s
		8 341.75 - 8 459.5 kc/s
х		12 503.25 - 12 689 kc/s
		16 660.5 - 16 917.5 kc/s
		22 184.5 - 22 374 kc/s
		$25\ 070$ - 25 110 kc/s ¹
SUP	452.1	
MOD	45 3	(g) Coast stations, wideband and manual telegraphy,
		facsimile, special and data transmission systems and
		direct-printing telegraph systems.
		4 231.5 - 4 361.5 kc/s
		6 345.5 - 6 514 kc/s
		8 459.5 - 8 728.5 kc/s
		12 689 – 13 107.5 kc/s
		16 917.5 - 17 255 kc/s
		22 372 - 22 624.5 kc/s
MOD	453.1	¹ Frequencies in the bands 25 010 - 25 070 kc/s,
		25 110 - 25 600 kc/s and 26 100 - 27 500 kc/s may
		be assigned to coast stations.

Note to the Editorial Committee

No. MOD 453 (title) appears in Document No. 231.

Annex I to Document No. DT/123-E Page 4

Article 12

MOD 677 \$8. The use of class B emissions if forbidden in all stations.

· .		Article 28
NOC		Section.I. General provisions
(MOD)	955 、	\$1. Mobile stations shall be established in such a way as to conform to the provisions of Chapter II as regards frequencies and classes of emission.
SUP	956	
ADD	964A	Equipment intended for use on narrow-band direct- printing telegraph and data systems should conform to the characteristics given in Appendix 20B. Section III
SUP		Title after No. 970. Bands between 110 and 160 kc/s.
SUP	9 7 1	

Article 32

SUP 1137

1138

MOD

\$15. In Region 2, the frequencies in the band / 20-- to 20-- kc/s/ are assigned to ship stations using wide-band telegraphy, facsimile and special transmission systems. The provisions of No. 1146 are applicable.

Annex I to Document No. DT/123-E Page 5

Article 32 (cont.)

MOD

ADD

1147

1191E

(3) Except as provided for in No. 1352B, coast radiotelegraph stations operating in the maritime mobile exclusive bands between 4 000 and 27 500 kc/s shall not use Type 2 emissions. (See No. 1105A.)
§38E. When assigning frequencies listed in Appendix 15, Administrations shall take due account

of the information entries in the Master Register as a result of the notification procedure contained in Resolution No. ... $\int E \int$.

Note to the Editorial Committee

In No. MOD 1138 : the limits of the band in square brackets will be finally agreed upon in Committee 5.

Document No. DT/123-E Page 6

ANNEX II

Appendix 10

ADD OD Ocean data station

ADD

ΟE

Ocean data interrogating station.

Document No. DT/123-E Page 7

ANNEX III

APPENDIX 20B

Narrow-band direct-printing telegraph equipment (see Articles 28 and 29)

1. The equipment for narrow-band direct-printing telegraphy in the maritime mobile service shall fulfil the following conditions :

(a) Equipment intended for interconnection with the Public Telegraph Network shall accept signals conforming to International Telegraph Alphabet No. 2 at a modulation rate of 50 bauds and shall provide similar signals at its output.

(b) The modulation rate over the radio path shall not exceed 100 bauds.

(c) Class Fl emission shall be used, with a total frequency shift of 170 c/s.

ADD

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/124-E 27 October 1967 Original : English

COMMITTEE 5

DRAFT

RECOMMENDATION No. ...

relating to channel spacing in the exclusive maritime mobile radiotelephone bands between 4 and 22 Mc/s

The World Administrative Radio Conference to deal with matters relating to the maritime mobile service (Geneva, 1967),

considering

a)

b)

<u>c</u>)

<u>d</u>)

that in Recommendation No. ... the Conference recommended that a World Maritime Radio Conference be convened in 1973 to deal with the matters referred to in paragraph 1 of that Recommendation; that this Conference be preceded by a preparatory meeting in accordance with No. 73 of the Convention; that in the interests of efficient utilization of the radio frequency spectrum it is desirable to adopt the minimum channel spacing consistent with the production of economically priced radio receivers having good adjacent channel spacing

priced radio receivers having good adjacent channel selectivity characteristics; that in bands between 1 605 and 3 850 ke/s the present

that in bands between 1 605 and 3 850 ke/s the present Conference has adopted a spacing of 3000 c/s between the assigned frequencies of adjacent single sideband channels;



that frequency tolerances as set out in Appendix ... have been adopted for the same service in all frequency bands;

recommends

that the preparatory meeting referred to in b) above should be invited to consider the adoption of a common single sideband channel spacing of 3000 c/s per second for maritime mobile radiotelephone purposes in proposing technical standards to the World Maritime Radio Conference referred to in a) above.

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/125-E 24 October 1967 Original : French, English, Spanish

WORKING GROUP 5B AD HOC

DRAFT REPORT BY WORKING GROUP 5B AD HOC

TO COMMITTEE 5

The Ad hoc Group submits the attached draft Resolution for approval by Committee 5.

P.E. WILLEMS Chairman

Annex : 1



Document No. DT/125-E Page 2

ANNEX

DRAFT RESOLUTION No. ...

Relating to the Transfer of Frequency Assignments to Coast Radiotelephone Stations in the Frequency Bands allocated exclusively to the Maritime Mobile Service between 4 000 and 23 000 kc/s

The World Administrative Radio Conference, Geneva (1967),

considering

<u>a</u>)

<u>b</u>)

that the Frequency Allotment Plan appearing in Appendix 25 to the Radio Regulations, Geneva, 1959, is to be retained until a new plan is worked out by the Conference mentioned in Recommendation No. ... /Document No. 2307;

that, as a result of the extension of the bands allocated exclusively to the maritime mobile service for radiotelephony, new duplex radiotelephone channels will be available to the maritime mobile service and will be contained in a new section (Section III) of Appendix 25 (Resolution No. ... /Document No. 2307);

Annex to Document No. DT/125-E Page 3

that the separation between the transmitting frequencies of coast and ship stations should remain constant within each band:

that on the whole it is easier and cheaper to change transmitting frequencies for coast stations than for ship stations, taking into account the large number of ship stations;

that the additions to the bands allocated exclusively to the maritime mobile service for radiotelephony will become available on 1 March 1970 \sqrt{see} Annex 2 to Document No. $30\overline{1/}$;

that the new channels should be brought into service as soon as possible;

resolves

on 1 March 1970, the frequencies appearing in Appendix 25 to the Radio Regulations (Geneva, 1959) shall be replaced by the frequencies appearing in Annex I to this Resolution. This Appendix as modified shall also contain the new Section III referred to in Resolution No. I and shall then be known as Appendix 25 MOD;

on 1 March 1970, the I.F.R.B. shall bring the appropriate initial entries listed in the Master International Frequency Register, in accordance with the provisions of paragraph 2.1 c) of

<u>c</u>)

<u>d</u>)

<u>e</u>)

<u>f</u>)

1.

2.

Resolution No. 1 of the Administrative Radio Conference (Geneva, 1959), into conformity with the allotments included in Appendix 25 MOD referred to above;

frequency assignments to HF coast radiotelephone stations recorded in the Master Register on 1 March 1970 on the channels defined in Appendix 17 to the Radio Regulations (Geneva, 1959), shall be transferred in accordance with the tables appearing in Annex I (double sideband or independent sideband emissions (see Resolution No. ... /Document No. 2667)) and Annex II (single sideband emissions);

· 3.

4.

5.

frequency assignments to coast radiotelephone stations in the HF bands allocated exclusively for that purpose, but not in accordance with Appendix 17 of the Radio Regulations (Geneva, 1959), shall be transferred in such a way as to retain with respect to the frequencies specified in Section A of /Appendix 17 revised, Document No. DT/114/ the same relative positions they occupied in relation to the frequencies listed in Appendix 17 of the Radio Regulations, (Geneva, 1959);

on 1 March 1970 at 0001 GMT, administrations shall modify the transmitting frequencies of their radiotelephone coast stations as indicated in paragraphs 3 and 4 above; they shall notify these modifications to the I.F.R.B. in accordance with Section I of Article 9 of the Radio Regulations;

Annex to Document No. DT/125-E Page 5

provided that the notices received by the I.F.R.B. in accordance with paragraph 5 above do not contain any change in the basic characteristics of the originally recorded assignment, other than the assigned frequency, the I.F.R.B. shall record the change in the Master Register; the dates to be entered in the appropriate parts of column 2 shall be those of the original assignment. Should any other change be notified in the basic characteristics of the original assignment, it shall be dealt with in accordance with the provisions of Article 9 of the Radio Regulations;

on 1 March 1970, the I.F.R.B. shall also include in the Master Register, in respect of each original assignment the transfer of which has not at that time been notified to the I.F.R.B., a provisional entry determined in accordance with the provisions of paragraphs 3 or 4 above. For such provisional entries, the dates in column 2 recorded for the original assignment shall be retained. The original entries shall be retained in the Master Register but with a special remark in the "Remarks" column and any dates in column 2a shall be transferred to column 2b;

8.

7.

thirty days after that date, the I.F.R.B. shall send to those administrations which have not yet notified the transfer

6.

of frequency assignments to their coast radiotelephone stations in accordance with paragraphs 3 or 4 and 5 above, an extract from the Master Register showing the relevant entries contained therein on their behalf, and shall remind them of the provisions of this Resolution;

if, sixty days after the despatch of these extracts, an administration has still not notified to the I.F.R.B. the transfer of an existing assignment in accordance with paragraphs 3 or 4 and 5 above, the corresponding provisional new entry shall be deleted from the Master Register and the original entry shall be retained with its date in column 2b and a special remark in the "Remarks" column; if, however, the administration concerned notifies the transfer during the sixty days period, the provisions of paragraph 6 above shall apply;

Annexes : 2

9.

Annex to Document No. DT/125-E Page 7

ANNEX I

TABLE OF CORRESPONDENCE OF TRANSMITTING FREQUENCIES OF RADIOTELEPHONE COAST STATIONS, IN kc/s

(CLASSES OF EMISSION A3 AND A3B)

4 Me/s band		8 Mc/s band		12 Mc/s band		16 Mc/s band		22 Mc/s band	
Old frequencies	New frequencies	Old frequencies	New frequencies	Old frequencies	New frequencies	Old frequencies	New frequencies	01d frequencies	New frequencies
4 371.1	4 364.7	8 748.1	8 732.1	13 133.5	13 112.5	17 293.5	17 258.5	22 653.5	22 929.0
4 377.4	4 371.0	8 754.4	8 738.4	13 140.5	13 119.5	17 300.5	17 265.5	22 660.5	22 636.0
4 383.8	4 377.4	8 760.8	8 744.8	13 147.5	13 126.5	17 307.5	17 272.5	22 667.5	22 643.0
4 390.2	4 383.8	8 767:2	8 751.2	13 154.5	13 133.5	17 314.5	17 279.5	22 674.5	22 650.0
4 396.6	4 390.2	8 773.6	8 757.6	13 161.5	13 140.5	17 321.5	17 286.5	22 681.5	22 657.0
4 403.0	4 396.6	8 780.0	8 764.0	13 168.5	13 147.5	17 328.5	17 293.5	22 688.5	22 664.0
4 409.4	4 403.0	8 786.4	8 770.4	13 175.5	13 154.5	17 335.5	17 300.5	22 695.5	22 671.0
4 415.8	4 409.4	8 792.8	8 776.8	13 182.5	13 161.5	17 342.5	17 307.5	22 702.5	22 678.0
4 422.2	4 415.8	8 799.2	8 783.2	13 189.5	13 168.5	17 349.5	17 314.5	22 709.5	22 685.0
4 428.6	4 422.2	8 805.6	8 789.6	13 196.5	13 175.5	17 356.5	17 321.5	22 716.5	22 692.0
4 434.9	4 428.6	8 811.9	8 796.0						

ANNEX II

TABLE OF CORRESPONDENCE OF TRANSMITTING FREQUENCIES OF RADIOTELEPHONE COAST STATIONS,

IN kc/s (SINGLE SIDEBAND)

	4 Me/s	s ba n d		8 Mc/s band				
Old frequencies New frequencies			quencies	Old frequencies New frequencies				
Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies	
1 369.4 4 372.5 4 375.7 4 375.7 4 378.8 4 382.1 4 385.2 4 385.2 4 391.6 4 394.9 4 398.0 4 401.3 4 407.7 4 410.8 4 417.2 4 420.5 4 423.6 4 426.9	4 368.0 4 371.1 4 374.3 4 377.4 4 380.7 4 383.8 4 387.1 4 390.2 4 393.5 4 396.6 4 399.9 4 403.0 4 406.3 4 409.4 4 412.7 4 415.8 4 419.1 4 422.2	4 363.0 4 366.1 4 369.2 4 372.4 4 375.6 4 378.8 4 382.0 4 385.2 4 388.4 4 391.6 4 394.8 4 398.0 4 401.2 4 404.4 4 407.6 4 410.8 4 414.0 4 417.2	4 361.6 4 364.7 4 367.8 4 371.0 4 374.2 4 377.4 4 380.6 4 383.8 4 387.0 4 390.2 4 393.4 4 396.6 4 399.8 4 403.0 4 406.2 4 409.4 4 412.6 4 415.8	8 746.4 8 749.5 8 752.7 8 755.8 8 759.1 8 762.2 8 765.5 8 768.6 8 771.9 8 775.0 8 778.3 8 781.4 8 784.7 8 787.8 8 791.1 8 794.2 8 797.5 8 800.6	8 745.0 8 748.1 8 751.3 8 754.4 8 757.7 8 760.8 8 764.1 8 767.2 8 770.5 8 770.5 8 773.6 8 776.9 8 780.0 8 783.3 8 786.4 8 789.7 8 792.8 8 796.1 8 799.2	8 730.4 8 733.5 8 736.6 8 739.8 8 743.0 8 746.2 8 749.4 8 752.6 8 755.8 8 759.0 8 762.2 8 765.4 8 765.4 8 768.6 8 771.8 8 775.0 8 778.2 8 781.4 8 784.6	Irequencies 8 729.0 8 732.1 8 735.2 8 738.4 8 741.6 8 744.8 8 744.8 8 744.8 8 744.0 8 751.2 8 757.6 8 760.8 8 767.2 8 770.4 8 776.8 8 780.0 8 783.2 8 786.4	
4 430.0 4 433.2 4 436.3	4 425.5 4 428.6 4 431.8 4 434.9	4 420.4 4 423.6 4 426.8 4 430.0	4 419.0 4 422.2 4 425.4 4 428.6	8 803.9 8 807.0 8 810.2 8 813.3	8 802.5 8 805.6 8 808.8 8 811.9	8 787.8 8 791.0 8 794.2 8 797.4	8 789.6 8 792.8 8 796.0	

Annex to Document No. DT/125-E

TABLE OF CORRESPONDENCE OF TRANSMITTING FREQUENCIES OF RADIOTELEPHONE COAST STATIONS,

IN kc/s (SINGLE SIDEBAND)

•

	· 12	Mc/s band		16 Mc/s band				
Old free	quencies	New free	quencies	Old free	quencies	New frequencies		
Assigned	Carrier	Assigned	Carrier	Assigned	Carrier	Assigned	Carrier	
frequencies	frequencies	frequencies	frequencies	frequencies	frequencies	frequencies	frequencies	
13 131.6	13 13 0.2	13 110.4	13 109.0	17 291.6	17 290.2	17 256.4	17 255.0	
13 134.9	13 133.5	13 113.9	13 112.5	17 294.9	17 293.5	17 259.9	17 258.5	
13 138.6	13 137.2	13 117.4	13 116.0	17 298.6	17 297.2	17 263.4	17 262.0	
13 141.9	13 140.5	13 120.9	13 119.5	17 301.9	17 300.5	17 266.9	17 265.5	
13 145.6	13 144.2	13 124.4	13 123.0	17 305.6	17 304.2	17 270.4	17 269.0	
13 148.9	13 147.5	13 127.9	13 126.5	17 308.9	17 307.5	17 273.9	17 272.5	
13 153.6	13 152.2	13 131.4	13 130.0	17 312.6	17 311.2	17 277.4	17 276.0	
13 155.9	13 154.5	13 134.9	13 133.5	17 315.9	17 314.5	17 280.9	17 279.5	
13 159.6	13 158.2	13 138.4	13 137.0	17 319.6	17 318.2	17 284.4	17 283.0	
13 162.9	13 161.5	13 141.9	13 140.5	17 322.9	17 321.5	17 287.9	17 286.5	
13 166.6	13 165.2	13 145.4	13 144.0	17 326.6	17 325.2	17 291.4	17 290.0	
13 169.9	13 168.5	13 148.9	13 147.5	17 329.9	17 328.5	17 294.9	17 293.5	
13 173.6	13 172.2	13 152.4	13 151.0	17 333.6	17 332.2	17 298.4	17 297.0	
13 176.9	13 175.5	13 155.9	13 154.5	17 336.9	17 335.5	17 301.9	17 300.5	
13 180.6	13 179.2	13 159.4	13 158.0	17 340.6	17 339.2	17 305.4	17 304.0	
13 183.9	13 182.5	13 162.9	13 161.5	17 343.9	17 342.5	17 308.9	17 307.5	
13 187.6	13 186.2	13 166.4	13 165.0	17 347.6	17 346.2	17 312.4	17 311.0	
13 190.9	13 189.5	13 169.9	13 168.5	17 350.9	17 349.5	17 315.9	17 314.5	
13 194.6	13 193.2	13 173.4	13 172.0	17 354.6	17 353.2	17 319.4	17 318.0	
13 197.9	13 196.5	13 176.9	13 175.5	17 357.9	17 356.5	17 322.9	17 321.5	
	1		····	<u>ئە 100 ئەرىنىدە بەر مەن يېلىكى ئە</u> يە				

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TABLE OF CORRESPONDENCE OF TRANSMITTING FREQUENCIES OF RADIOTELEPHONE

COAST STATIONS, IN kc/s (SINGLE SIDEBAND)

- 22 Mc/s Band			
Old frequencies		New frequencies	
Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies
22 651.6 22 654.9 22 658.6 22 661.9 22 665.6 22 668.9 22 672.6 22 675.9 22 679.6 22 682.9 22 686.6	22 650.2 22 653.5 22 657.2 22 660.5 22 664.2 22 667.5 22 671.2 22 674.5 22 678.2 22 681.5 22 685.2	22 626.9 22 630.4 22 633.9 22 637.4 22 640.9 22 644.4 22 647.9 22 651.4 22 654.9 22 658.4 22 661.9	22 625.5 22 629.0 22 632.5 22 636.0 22 639.5 22 643.0 22 643.0 22 646.5 22 650.0 22 653.5 22 657.0 22 660.5
22 689.9 22 693.6 22 696.9 22 700.6 22 703.9 22 707.6 22 710.9 22 714.6 22 717.9	22 688.5 22 692.2 22 695.5 22 699.2 22 702.5 22 706.2 22 709.5 22 713.2 22 716.5	22 665.4 22 668.9 22 672.4 22 675.9 22 679.4 22 682.9 22 686.4 22 689.9 22 693.4	22 664.0 22 667.5 22 671.0 22 674.5 22 678.0 22 681.5 22 685.0 22 688.5 22 692.0

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/126-E 25 October 1967 Original : French

PLENARY MEETING COMMITTEES 4 AND 6

DRAFT SIXTH REPORT OF COMMITTEE 5

I. Article 5

Committee 5 adopted the text of the new No. 200A which is given in Annex 1.

II. Article 7

The Committee adopted the new texts relating to Nos. 442, 447, 448, 449, 450, 456 and 457 which appear in Annex 2.

III. Article 33

The Committee considered what amendments should be made to the provisions of Article 33 in consequence of the decisions it had taken regarding Appendix 17 in particular. The attention of Committee 6 should be drawn to the fact that in Nos. 1236 and 1249 the reference to Section B of Appendix 15 should be replaced by a reference to No. 1352. Furthermore, the reference to Appendix 17 should be replaced by a reference to Sections A and B of Appendix 17.

Similarly, "carrier frequency 6204 kc/s" should be substituted for "frequency 6204 kc/s".

As a consequence of the new No. 1352B, Committee 6 should perhaps include in Article 33 provisions similar to those of No. 1251.

Concerning the use of channels adjacent to the guardband of frequency 2182 kc/s, Committee 5 adopted the following amendments to Article 33. These provisions, which concern Nos. 1227A, 1228, 1233, 1235A and 1248A (see Annex 6) should be examined by Committee 6.

IV. Article 35

Committee 5 adopted the texts relating to Nos. 1322C, 1336, 1336A, 1351A, 1352, 1352A, 1352B, 1353, 1353A, 1355, 1356 and 1357 which are given in Annex 3.



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The footnote 1352A.1 takes account of the proposal made by Committee 4 in Document No. 275, paragraph 2, point 4. Since Article 35 is solely concerned with radiotelephone emissions, appropriate provisions should be included in Article 32 concerning the use for selective calling by radiotelegraph coast stations of the frequencies mentioned in No. 1352A.

/ Working Group 5B also examined Document No. 244 containing a United States proposal concerning the following footnote to Nos. 1352 and 1352A :

"In Region 2, the frequencies 4 136.3, 4 413.9, 6 204 and 6 518.6 kc/s also may be used by coast and ship stations for single sideband radiotelephone simplex operation. Coast station power shall not exceed 1 kW peak envelope power. (See also MOD 488 Document No. 18, USA/18(27))".

Some delegations proposed extending the application of the provisions of this number to Region 3. However, definite opposition being shown to this proposal, the delegations of the United States of America, Canada and Japan decided to take up the matter again in Committee 5.7

V. Appendix 17

The Committee decided that Appendix 17 should consist of three sections. The new Appendix 17 as adopted appears in Annex 4.

In order that, when the new channels are brought into use on 1 March 1970, all the channels in each band should have the same spacing between ship station transmitting frequencies and coast station transmitting frequencies, it was decided that the frequencies assigned to radiotelephone coast stations should be changed. The draft Resolution adopted on this subject is contained in Annex 5.

/ Regarding possible power limitations in the new channels which will become available on 1 March 1970, it was agreed that the peak envelope power of ship stations should not exceed 1.5 kW. The proposals for the maximum peak envelope power of coast stations were spread between 3 and 15 kW. After discussion, some delegations were willing to accept 5 kW, whereas others were in favour of a figure of 10 kW. It proved impossible to reach a compromise between these two values./

P. MORTENSEN

Chairman

Annexes : 6

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ANNEX.1

Article 5

ADD

200A

In Region 2, except in Greenland, coast stations and ship stations using radiotelephony shall be limited for class A3A or A3J emission to the upper sideband and to a peak envelope power (Pp) not exceeding 1 kW.

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ANNEX 2

Article 7

MOD

442

§ 11. (1) In Region 1, frequencies assigned to stations of the maritime mobile service, operating in the bands between 1 605 and 3 800 kc/s (see Article 5) should, whenever possible, be in accordance with the following subdivision :

- 1 605 1 625 kc/s : Radiotelegraphy exclusively,
- 1 625 1 670 kc/s : Low power radiotelephony,
- 1 670 1 950 kc/s : Coast stations,
- 1 950 2 053 kc/s : Ship stations working to coast stations,
- 2 053 2 065 kc/s : Intership working,
- 2 065 2 170 kc/s : Ship stations working to coast stations,
- 2 170 2 173.5 kc/s : Coast stations calling ship stations (including selective calling) and, exceptionally coast stations transmitting safety messages,
- 2 173.5 2 190.5 kc/s : Guard-band for the distress frequency 2 182 kc/s,
- 2 190.5 2 194 kc/s : Ship stations calling coast stations,

Annex 2 to Document No. DT/126-E Page 5

Article 7 (cont.)

•		- 2 194 - 2 440 kc/s : Intership working,
		- 2 440 - 2 578 kc/s : Ship stations working to coast stations,
		- 2 578 - 2 850 kc/s : Coast stations,
		- 3 155 - 3 340 kc/s : Ship stations working to coast stations,
		- 3 340 - 3 400 kc/s : Intership working,
		- 3 500 - 3 600 kc/s : Intership working
		- 3 600 - 3 800 kc/s : Coast stations.
MOD	447	a) Ship stations, telephony, duplex operation
	•	(2-frequency channels)
		4 063 - 4 139.5 kc/s
		$6\ 200 - 6\ 210.4\ kc/s$
		8 195 - 8 281.2 kc/s
·		12 330 - 12 421 kc/s
		$16\ 460\ -\ 16\ 565\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
,		$22\ 000 = 22\ 094.5\ kc/s$
BáOD	440	
MOD	4 48	b) <u>Coast stations</u> , telephony, duplex operation
		(2-frequency channels)
		4 361 - 4 438 kc/s
		6 514 - 6 525 kc/s
		8 728.5 - 8 815 kc/s
		13 107.5 - 13 200 kc/s
		17 255 - 17 360 kc/s

22 624.5 - 22 720 kc/s

Annex 2 to Document No. DT/126-E Page 6

Article 7 (Cont.)

MOD	449	c) Ship stations and coast stations, telephony, simplex operation (single frequency channels)
		4 139.5 - 4 142.5 kc/s 6 210.4 - 6 216.5 kc/s 8 281.2 - 8 288 kc/s 12 421 - 12 431.5 kc/s 16 565 - 16 576 kc/s 22 094.5 - 22 112 kc/s
SUP	450	22 094.5 - 22 112 KC/S
MOD	456	§ 13. (1) Appendix 17 shows the two-way radio- telephone channels of the maritime mobile service in the frequency bands listed in Nos. 447, 448 and 449.
MOD	457	Appendix 25 contains the allotment plan for radiotelephone coast stations in the bands listed in No. 448 (see however Resolution No / page of this Document_7).

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ANNEX 3

Article 35

13220

ADD

(2) Transmissions in the bands 2170-2173.5 kc/s and 2190.5-2194 kc/s respectively with carrier frequency 2170.5 kc/s (assigned frequency 2171.9 kc/s) and carrier frequency 2191 kc/s (assigned frequency 2192.4 kc/s) are limited to class A3A and A3J emission with a peak envelope power of 400 W. However, on the carrier frequency 2170.5 kc/s, in Regions 1 and 3 and in Greenland, coast stations may also use class A2H emission for selective calling and exceptionally, class A3H emission for safety messages.

NOC 1336 ADD 1336A

1(bis) Coast stations authorized for radiotelephony on one or more frequencies other than 2182 kc/s in the authorized bands between 1605 and 2850 kc/s shall be capable of transmitting on those frequencies class A3 emission or classes A3H, A3A and A3J emissions. However, after / 1 January 1975/, class A3 emission shall no longer be authorized and after / 1 January 1982/class A3H emission shall also be no longer authorized, except on 2182 kc/s. Coast stations in Regions 1 and 3 and in Greenland may nevertheless, in exceptional cases, continue to use class A3H emission when they transmit safety messages on the carrier frequency 2170.5 kc/s.

Annex 3 to Document No. DT/126-E Page 8

Bands between 4 000 and 23 000 kc/s

Article 35 (cont.)

1351A

NOC

ADD

A. Mode of operation of stations

ADD

\$13 A. The classes of emission to be used for radiotelephony in the bands of the maritime mobile service between 4 000 and 23 000 kc/s are :

a) Class A3¹, or

Section III.

b) Classes A3H², A3A and A3J.

However, unless otherwise specified in these Regulations (see Nos. 1353A/) :

- after 1 January 1972, class A3 emission shall no longer be authorized for coast stations and,
- after 1 January 1978, class A3H emission for coast stations and class A3 and A3H emission for ship stations shall no longer be authorized.
- ADD 1351A-1 ADD 1351A-2

¹⁾ For the use of class A3B emission, see Resolution No. ... $\overline{\text{Document No. 3197}}$.

²⁾The conditions of use of class A3H emission are specified in Appendix 17 and in Resolution No. ... /Document No. 3197.

Annex 3 to Document No. DT/126-E Page 9

Article 35 (cont.)

MOD		AA. Call, Reply and Safety
MOD	1352	${ extsf{S}}$ 14.(1) Ship stations may use the following carrier
•		frequencies for calling in radiotelephony :
		4136.3 kc/s
		6204.0 kc/s
		8268.4 kc/s
		12403.5 kc/s
		16533.5 kc/s
		22073.5 kc/s
ADD	1352A	(2) Coast stations may use the following carrier
		frequencies for calling in radiotelephony 1 :
		4434.9 kc/s
		6518.6 kc/s
		8802.4 kc/s
		13182.5 kc/s
		17328.5 kc/s
		22699.0 kc/s

ADD

1352A-1 1)

These frequencies may also be used for calling by radiotelegraph coast stations which use selective calling systems \angle see Nos. 1147 and 1124 \angle .

Annex to Document No. DT/126-E Page 10

Article 35 (Cont.)

1353

§ 15. (1) In the zone lying between the parallels ADD 1352B 33° and 50°S, the carrier frequency 4 136.3 kc/s is to be used for call, reply and safety purposes. It may also be used for messages preceded by the urgency or safety signals and, if necessary, for distress messages.

MOD

In the part of Region 3 lying between (2) the northern boundary of the tropical zone and the parallel 15°S, the carrier frequency 6 204 kc/s is designated for call, reply and safety purposes. It may also be used for messages preceded by the urgency or safety signals and, if necessary, for distress messages.

Stations using the frequencies 4 136.3 kc/s and ADD 1353A 6 204 kc/s in the conditions specified in Nos. 1352B and 1353 may employ class A3H emissions as from 1 January 1978.

> § 17 (1) For the conduct of duplex telephony, 1355 the transmitting frequencies of the coast stations and of the corresponding ship stations shall be associated in pairs, as far as possible, as indicated in Sections A and B of Appendix 17.

> > The frequencies to be used for the conduct (2)of simplex radiotelephony are shown in Section C of Appendix 17. The peak envelope power of the transmitters of coast stations must not exceed 1 kW in such cases.

MOD

MOD

1356

Annex 3 to Document No. DT/126-E Page 11

Article 35 (cont)

MOD 1357

(3) The frequencies indicated in Sections A,B and C of Appendix 17 for ship stations emissions maybe used by ships of any category according to traffic requirements.

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ANNEX 4

APPENDIX 17

Channelling of the Maritime Mobile Radiotelephone Bands

between 4 000 and 23 000 kc/s

(See Article 35)

1. Channelling arrangements for the frequencies to be used by coast and ship stations in the bands allocated to the maritime mobile radiotelephone service are set out in three sections as follows :

> Section A - Table of duplex (two-frequencies) double sideband transmitting frequencies (in kc/s)

> Section B - Table of duplex (two-frequencies) single sideband transmitting frequencies (in kc/s)

Section C - Table of simplex (one-frequency) single sideband transmitting frequencies (in kc/s).

2. The technical characteristics for SSB transmitters are given in Appendix 17A.

3. One or more series of frequencies from Sections A or B (with the exception of those frequencies of Section B mentioned in paragraph 5 below) are assigned to each coast station which uses these frequencies associated, as far as possible, in pairs; each pair comprises a transmitting and a

receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, as far as possible, harmful interference between the services of different coast stations.

4. The frequencies in Section C are provided for world-wide common use by ships of all categories, according to traffic requirements, for ship transmissions to coast stations and for intership communication. They are also authorized for world-wide common use for transmissions by coast stations (simplex operation) provided the peak envelope power does not exceed 1 kW.

- 5. a) The following series of frequencies in Section B are allocated for calling purposes :
 - Series No. 24 in the 4 Mc/s and 8 Mc/s bands;
 - Series No. 2 in the 6 Mc/s band;
 - Series No. 22 in the 12, 16 and 22 Mc/s bands.

The remaining frequencies in Sections A, B and C are working . frequencies.

b) Use of the DSB calling frequencies 8 269, 12 403.5, 16 533.5 and 22 074 kc/s should, as far as possible, cease by [1] March 1970 / to permit the use of the new SSB channels.
In any event, the use of these frequencies for DSB calling shall cease by [1] January 1978.

6. Stations utilizing double sideband emissions shall operate only on the frequencies in Section A \angle in accordance with Nos. ... and (Article 35) \angle and on the frequencies mentioned in paragraph 5 b) above.

 a) Stations utilizing single sideband emissions shall operate only on the carrier frequencies shown in Sections B and C in conformity with the technical characteristics contained in Appendix 17A. The upper sideband mode shall always be employed.

7.

b) Stations employing the single sideband mode shall only use A3A and A3J emissions. However, administrations should endeavour, as far as possible, to restrict to class A3J emissions, the use of frequencies of Series No. 1 from Section B.

Until 1 January 1978 class A3H emissions (in accordance with 1351A) are permitted only on those carrier frequencies shown in Section B which are coincident with, or within 100 cycles of, the frequencies shown in Section A. However, on calling frequencies for coast stations class A3H emissions may be used until 1 January 1978.

8. During the transition period (see Resolution No. / Document No. 319 Annex 2/) assignments to stations utilizing independent sideband emissions shall be considered to be in accordance with the Table in Section A if the necessary bandwidth does not extend beyond the upper or lower limits of the bandwidth provided for double sideband emissions.

9. If an administration authorizes the use of frequencies other than those contained in Sections A, B and C, its radiotelephone service shall not cause harmful interference to radiotelephone stations of the maritime mobile service which use frequencies in accordance with the appended Tables. Annex 4 to Document No. DT/126-E Page 15

SECTION A

Table of Transmitting Frequencies for duplex operation in double sideband emissions (in kc/s)

	4 Mc/s	Band	8 Mc/s	Band	12 Mc/	's Band	16 Mc/	's Band	22 Mc/	s Band
Series No.	Coast station frequency	Ship station frequency	Coast station frequency	Ship station frequency	Coast station frequency	Ship station frequency	Coast station frequency	Ship station frequèncy	Coast station frequency	Ship station frequency
1	4 364.7	4 066.1	8 732.1	8 198.1	13 112.5	12 333.5	17 258.5	16 463.5	22 629.0	22 003.5
2	4 371.0	4 072.4	8 738.4	8 204.4	13 119.5	12 340.5	17 265.5	16 470.5	22 636.0	22 010.5
3	4 377.4	4 078.8	8 744.8	8 210.8	13 126.5	12 347.5	17 272.5	16 477.5	22 643.0	22 017.5
4	4 383.8	4 085.2	8 751.2	8 217.2	13 133.5	12 354.5	17 279.5	16 484.5	22 650.0	22 024.5
5	4 390.2	4 091.6	8 757.6	8 223.6	13 140.5	12 361.5	17 286.5	16 491.5	22 657.0	22 031.5
6	4 396.6	4 098.0	8 764.0	8 230.0	13 147.5	12 368.5	17 293.5	16 498.5	22 664.0	22 038.5
. 7	4 403.0	4 104.4	8 770.4	8 236.4	13 154.5	12 375.5	17 300.5	16 505.5	22 671.0	22 045.5
8	4 409.4	4 110.8	8 776.8	8 242.8	13 161.5	12 382.5	17 307.5	16 512.5	22 678.0	22 052.5
9	4 415.8	4 117.2	8 783.2	8 249.2	13 168.5	12 389.5	17 314.5	16 519.5	2 2 685.0	22 059.5
10	4 422.2	4 123.6	8 789.6	8 255.6	13 175.5	12 396.5	17 321.5	16 526.5	22 692.0	22 066.5
11	4 428.6	4 129.9	8 796.0	8 261.9						

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Section B

<u>Table of Transmitting Frequencies for Duplex Operation in Single Sideband Emissions (in kc/s)</u>
--

all and all the second		4 Mc	s Band	-		6 Mc/s	Band	
-	Coast	Stations	Ship St	ations	Coast Sta	ations	Ship S	tations
Series No.	Carrier Frequency	Assigned Frequency	Carrier Frequency	Assigned Frequency	Carrier Frequency	Assigned Frequency	Carrier Frequency	Assigned Frequency
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\27\\28\\9\\30\end{array} $	4.361.6 4.364.7 4.367.8 4.371.0 4.374.2 4.377.4 4.380.6 4.383.8 4.387.0 4.390.2 4.393.4 4.396.6 4.399.8 4.403.0 4.409.4 4.412.6 4.415.8 4.419.0 4.422.2 4.425.4 4.425.4 4.428.6 4.31.8 4.34.9*	4 363.0 4 366.1 4 369.2 4 372.4 4 375.6 4 378.8 4 382.0 4 385.2 4 385.2 4 388.4 4 391.6 4 394.8 4 398.0 4 401.2 4 404.4 4 407.6 4 410.8 4 410.8 4 414.0 4 417.2 4 420.4 4 423.6 4 426.8 4 430.0 4 433.2 4 436.3*	4 063.0 4 066.1 4 069.2 4 072.4 4 075.6 4 078.8 4 082.0 4 085.2 4 085.2 4 088.4 4 091.6 4 094.8 4 094.8 4 093.0 4 101.2 4 107.6 4 110.8 4 110.8 4 114.0 4 117.2 4 120.4 4 123.6 4 126.8 4 130.0 4 133.2 4 136.3*1	4 064.4 4 067.5 4 070.6 4 073.8 4 077.0 4 080.2 4 083.4 4 086.6 4 089.8 4 093.0 4 096.2 4 099.4 4 102.6 4 105.8 4 109.0 4 112.2 4 115.4 4 118.6 4 121.8 4 125.0 4 128.2 4 131.4 4 134.6 4 137.7*	6 515.4 6 518.6* 6 521.8	6 516.8 6 520.0* 6 523.2	6 200.8 6 204.0*1) 6 207.2	6 202.2 6 205.4* 6 208.6

* The frequencies followed by an asterisk are calling frequencies (see Nos. [1352, 1352A]).

1) For the conditions of use of frequencies 4 136.3 and 6 204 kc/s, see Nos. 1352B and 1353 respectively.

Section B

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		8 Mc/s	s Band		12 Mc/s Band					
Series	Coast S	tations	Ship S	tations	Coast S	tations	Ship Stations			
Nos.	Carrier Frequency	Assigned Frequency	Carrier Frequen c y	Assigned Frequency	Carrier Frequency	Assigned Frequency	Carrier Frequency	Assigned Frequency		
	8 729.0 8 732.1 8 735.2 8 738.4 8 741.6 8 744.8 8 748.0 8 751.2 8 754.4 8 757.6 8 760.8 8 760.8 8 764.0 8 767.2 8 770.4 8 773.6 8 776.8 8 776.8 8 776.8 8 776.8 8 780.0 8 783.2 8 786.4 8 789.6 8 799.2 8 802.4* 8 805.6 8 808.8 8 812.0	8 730.4 8 733.5 8 736.6 8 739.8 8 743.0 8 745.2 8 749.4 8 752.6 8 755.8 8 759.0 8 762.2 8 765.4 8 765.4 8 768.6 8 771.8 8 765.4 8 765.4 8 765.4 8 765.4 8 765.4 8 775.0 8 777.2 8 781.4 8 784.6 8 787.8 8 784.6 8 787.8 8 791.0 8 794.2 8 797.4 8 800.6 8 803.8* 8 807.0 8 810.2 8 813.4	8 195.0 8 198.1 8 201.2 8 304.4 8 207.6 8 210.8 8 214.0 8 217.2 8 220.4 8 223.6 8 226.8 8 230.0 8 233.2 8 236.4 8 239.6 8 246.0 8 249.2 8 255.6 8 265.2 8 265.2 8 268.4* 8 271.6 8 274.8 8 278.0		$\begin{array}{c} 13 \ 109.0 \\ 13 \ 112.5 \\ 13 \ 116.0 \\ 13 \ 119.5 \\ 13 \ 123.0 \\ 13 \ 126.5 \\ 13 \ 126.5 \\ 13 \ 130.0 \\ 13 \ 133.5 \\ 13 \ 137.0 \\ 13 \ 137.0 \\ 13 \ 140.5 \\ 13 \ 140.5 \\ 13 \ 144.0 \\ 13 \ 147.5 \\ 13 \ 151.0 \\ 13 \ 154.5 \\ 13 \ 158.0 \\ 13 \ 154.5 \\ 13 \ 158.0 \\ 13 \ 161.5 \\ 13 \ 168.5 \\ 13 \ 168.5 \\ 13 \ 168.5 \\ 13 \ 172.0 \\ 13 \ 168.5 \\ 13 \ 175.5 \\ 13 \ 175.5 \\ 13 \ 175.5 \\ 13 \ 179.0 \\ 13 \ 182.5^* \\ 13 \ 186.0 \\ 13 \ 189.5 \\ 13 \ 193.0 \\ 13 \ 196.5 \end{array}$	13 110.4 13 113.9 13 117.4 13 120.9 13 124.4 13 127.9 13 131.4 13 134.9 13 141.9 13 144.9 13 145.4 13 145.4 13 145.4 13 145.9 13 155.9 13 155.9 13 162.9 13 166.4 13 169.9 13 180.4 13 183.9* 13 183.9* 13 187.4 13 190.9 13 194.4 13 197.9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12 331.4 12 334.9 12 338.4 12 341.9 12 345.4 12 348.9 12 352.4 12 355.9 12 359.4 12 362.9 12 366.4 12 369.9 12 373.4 12 376.9 12 380.4 12 383.9 12 387.4 12 390.9 12 394.4 12 397.9 12 401.4 12 404.9* 12 408.4 12 411.9 12 415.4 12 418.9		

Table of Transmitting Frequencies for Duplex Operation in Single Sideband Emissions (in kc/s)

* The frequencies followed by an asterisk are calling frequencies (see Nos. (1352, 1352,

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Section B

Page 18

Table of Transmitting Frequencies for Duplex Operation in Single Sideband Emissions (in kc/s)

		16 Mc/	's band	· · · · · · · · · · · · · · · · · · ·	, 22 Me/s band						
	Coast st	ations	Ship st	ations	Coast st	ations	Ship s	tations			
Series No.	Carrier	Assigned	Carrier	Assigned	Carrier	Assigned	Carrier	Assigned			
140.	frequency	frequency	frequency	frequency	frequency	frequency	frequency	frequency			
	17,255.0	17 256.4	16 460.0	16 461.4	22 625.5	22 626.9	22 000.0	22 001.4			
	17 258.5	17 259.9	16 463.5	16 464.9	22 629.0	22 630.4	22 003.5	22 004.9			
	17 262.0	17 263.4	16 467.0	16 468.4	22 632.5	22 633.9	22 007.0	22 008.4			
	17 265.5	17 266.9	16 470.5	16 471.9	22 636.0	22 637.4	22 010.5	22 011.9			
	17 269.0	17 270.4	16 474.0	16 475.4	.22 639.5	22 640.9	22 014.0	22 015.4			
	17 272.5	17 273.9	16 477.5	16 478.9	22 643.0	22 644.4	22 017.5	22 018,9			
	17 276.0	17 277.4	16 481.0	16 482.4	22 646.5	22 647.9	22 021.0	22 022.4			
	17 279.5	17 280.9	16 484.5	16 485.9	22 650.0	22 651.4	22 024.5	22 025.9			
	17 283.0	17 284.4	16 488.0	16 489.4	22 653.5	22 654.9	22 028.0	22 029.4			
	17 286.5	17 287.9	16 491.5	16 492.9	22 657.0	22 658.4	22 031.5	22 032.9			
	17 290.0	17 291.4	16 495.0	16 496.4	22 660.5	22 661.9	22 035.0	22 036.4			
	17 293.5	17 294.9	16 498.5	16 499.9	22 664.0	. 22 665.4	22 038.5	22 039.9			
	17 297.0	17 298.4	16 502.0	16 503.4	22 667.5	22 668.9	22 042.0	22 043.4			
	17 300.5	17 301.9	16 505.5	16 506.9	22 671.0	22 672.4	22 045.5	22 046.9			
1	17 304.0	17 305.4	16 509.0	16 510.4	22 674.5	22 675.9	22 049.0	22 050.4			
	17 307.5	17 308.9	16 512.5	16 513.9	22 678.0	22 679.4	22 052.5	22 053.9			
	17 311.0	17 312.4	16 516.0	16 517.4	22 681.5	22 682.9	22 056.0	22 057.4			
	17 314.5	17 315.9	16 519.5	16 520.9	22 685.0	22 686.4	22 059.5	22 060.9			
	17 318.0	17 319.4	16 523.0	16 524.4	22 688.5	22 689.9	22 063.0	22 064.4			
	17 321.5	17 322.9	16 526.5	16 527.9	22 692.0	22 693.4	22 066.5	22 067.9			
	17 325.0	17 326.4	16 530.0	16 531.4	22 695.5	. 22 696.9	22 070.0	22 071.4			
	17 328.5*	17 329.9*	16 533.5*	16 534.9*	22 699.0*	22 700.4*	22 073.5*	22 074.9*			
•	17 332.0	17 333.4	16 537.0	16 538.4	22 702.5	22 703.9	22 077.0	22 078.4			
	17 335.5	17 336.9	16 540.5	16 541.9	22 706.0	22 707.4	22 080.5	22 081.9			
	17 339.0	17 340.4	16 544.0	16 545.4	22 709.5	22 710.9	22 084.0	22 085.4			
	17 342.5	17 343.9	16 547.5	16 548.9	22 713.0	22 714.4	22 087.5	22 088.9			
	17 346.0	17 347.4	16 551.0	16 552.4	22 716.5	22 717.9	22 091.0	22 092.4			
	17 349.5	17 350.9	16 554.5	16 555.9							
	17 353.0	17 354.4	16 558.0	16 559.4							
	17 356.5	17 357.9	16 561.5	16 562.9							

* The frequencies followed by an asterisk are the calling frequencies (see Nos. [1352, 1352A]).

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Section C

Table of transmitting frequencies for simplex operation in single sideband emissions (in kc/s)

4 Mc/s Band		6 Mc/s Band		8 Mc/s Band		12 Mc/s Band		16 Mc/s Band		22 Mc/s Band	
Carrier fre- quency	Assigned fre- quency	Carrier · fre- quency	Assigned fre- quency	Carrier fre- quency	Assigned fre- quency	Carrier fre- quency	Assigned fre- quency	Carrier fre- quency	Assigned fre- quency	Carrier fre- quency	Assigned fre- quency
4139.5	4140.9	6210.4 6213.5	6211.8 6214.9	8281.2 8284.4	8282.6 8285.8	12421.0 12424.5 12428.0	12422.4 12425.9 12429.4	16565.0 16568.5 16572.0	16566.4 16569.9 16573.4	22094.5 22098.0 22101.5 22105.0 22108.5	22095.9 22099.4 22102.9 22106.4 22109.9

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ANNEX 5

DRAFT RESOLUTION No. ...

Relating to the Transfer of Frequency Assignments to Coast Radiotelephone Stations in the Frequency Bands allocated exclusively to the Maritime Mobile Service between 4 000 and 23 000 kc/s

The World Administrative Radio Conference, Geneva (1967),

considering

<u>a</u>)

<u>b</u>)

that the Frequency Allotment Plan appearing in Appendix 25 to the Radio Regulations, Geneva, 1959, is to be retained until a new plan is worked out by the Conference mentioned in Recommendation No. ... $\overline{Document No. 2307}$;

that, as a result of the extension of the bands allocated exclusively to the maritime mobile service for radiotelephony, new duplex radiotelephone channels will be available to the maritime mobile service and will be contained in Section III of Appendix 25 MOD (Resolution No. ... /Document No. 230/); that the separation between the transmitting frequencies of coast and ship stations should remain constant within each band;

that on the whole it is easier and cheaper to change transmitting frequencies for coast stations than for ship stations, taking into account the large number of ship stations;

that the additions to the bands allocated exclusively to the maritime mobile service for radiotelephony will become available on 1 March 1970 / see Annex II to Document No. 307/

that the new channels should be brought into service as soon as possible;

resolves

on 1 March 1970, the frequencies appearing in Appendix 25 to the Radio Regulations (Geneva, 1959) shall be replaced by the frequencies appearing in Annex I to this Resolution. This Appendix as modified shall also contain the new Section III referred to in Resolution No. /1/7 and shall then be known as Appendix 25 MOD;

2.

<u>c</u>)

<u>d</u>)

<u>e)</u>

<u>f</u>)

1.

on 1 March 1970, the I.F.R.B. shall bring the appropriate initial entries listed in the Master International Frequency Register in accordance with the provisions of paragraph 2.1 c) of

Annex 5 to Document No. DT/126-E Page 22

Resolution No. 1 of the Administrative Radio Conference (Geneva, 1959), into conformity with the allotments included in Appendix 25 MOD referred to above;

frequency assignments to HF coast radiotelephone stations recorded in the Master Register on 1 March 1970 on the channels defined in Appendix 17 to the Radio Regulations (Geneva, 1959), shall be transferred in accordance with the tables appearing in Annex I (double sideband or independent sideband emissions) or Annex II (single sideband emissions), as the case may be;

frequency assignments to coast radiotelephone stations in the HF bands allocated exclusively for that purpose, recorded in the Master Register on 1 March 1970, but not in accordance with Appendix 17 of the Radio Regulations (Geneva, 1959), shall be transferred in such a way as to retain with respect to the frequencies specified in Section A of \angle Appendix 17 revised, Document No. DT/114 \angle the same relative positions they occupied in relation to the frequencies listed in Appendix 17 to the Radio Regulations (Geneva, 1959);

on 1 March 1970 at 0001 GMT, administrations shall modify the transmitting frequencies of their coast radiotelephone stations as indicated in paragraphs 3 and 4 above; they shall notify these modifications to the I.F.R.B. in accordance with the provisions of Section I of Article 9 of the Radio Regulations;

4.

3.

5.

Annex 5 to Document No. DT/126-E Page 23

provided that the notices received by the I.F.R.B. in accordance with paragraph 5 above do not contain any change in the basic characteristics of the originally recorded assignment, other than the assigned frequency, the I.F.R.B. shall record the change in the Master Register; the dates to be entered in the appropriate parts of column 2 shall be those of the original assignment. Should any other change be notified in the basic characteristics of the original assignment, it shall be dealt with in accordance with the provisions of Article 9 of the Radio Regulations;

on 1 March 1970, the I.F.R.B. shall also include in the Master Register, in respect of each original assignment the transfer of which has not at that time been notified to the I.F.R.B., a provisional entry determined in accordance with the provisions of paragraphs 3 or 4 above. For such provisional entries, the dates in column 2 recorded for the original assignment shall be retained. The original entries shall be retained in the Master Register but with a special remark in the "Remarks" column and any dates in column 2a shall be transferred to column 2b;

thirty days after that date, the I.F.R.B. shall send to those administrations which have not yet notified the transfer

6.

8,

7.

of frequency assignments to their coast radiotelephone stations in accordance with paragraphs 3 or 4 and 5 above, an extract from the Master Register showing the relevant entries contained therein on their behalf, and shall remind them of the provisions of this Resolution;

9.

if, sixty days after the despatch of these extracts, an administration has still not notified to the I.F.R.B. the transfer of an existing assignment in accordance with paragraphs 3 or 4 and 5 above, the corresponding provisional new entry shall be deleted from the Master Register and the original entry shall be retained with its date in column 2b and a special remark in the "Remarks" column; if, however, the administration concerned notifies the transfer during the sixty days period, the provisions of paragraph 6 above shall apply.

Annexes: 2-

Annex 5 to Document No.DT/126 Page 25

Annex I to the Resolution

Table of Transmitting Frequencies of Radiotelephone Coast Stations, in kc/s

(Classes of Emission A3 and A3B)

4 Mc/s band		8 Mc/s band		12 Mc/s band		16 Mc/s	s band	22 Mc/s band		
Old frequencies	New frequencies	Old frequencies	New frequencies	Old frequencies	Néw frequencies	Old fr eq uencies	New frequencies	01d frequencies	New frequencies	
4 371.1	4 364.7	8 748.1	8 732.1	13 133.5	13 112.5	17 293.5	17 258.5	22 653.5	22 929.0	
4 377.4	4 371.0	8 754.4	8 738.4	13 140.5	13 119.5	17 300.5	17 265.5	22 660.5	22 636.0	
4 383.8	4 377.4	8 760.8	8 744.8	13 147.5	13 126.5	17 307.5	17 272.5	22 667.5	22 643.0	
4 390.2	4 383.8	8 767.2	8 751.2	13 154.5	13 133.5	17.314.5	17 279.5	22 674.5	22 650.0	
4 396.6	4 390.2	8 773.6	8.757.6	13 161.5	13 140.5	17 321.5	17 286.5	22 681.5	22 657.0	
4 403.0	4 396.6	8 780.0	8 764.0	13 168.5	13 147.5	17 328.5	17 293.5	22 688.5	22 664.0	
4 409.4	4 403.0	8 786.4	8 770.4	13 175.5	13 154.5	17 335.5	17 300.5	22 695.5	22 671.0	
4 415.8	4 409.4	8 792.8	8 776.8	13 182.5	13 161.5	17 342.5	17 307.5	22 702.5	22 678.0	
4 422.2	4 415.8	8 799.2	8 783.2	13 189.5	13 168.5	17 349.5	17 314.5	· 22 709 . 5	22 685.0	
4 428.6	4 422.2	8 805.6	8 789.6	13 196.5	13 175.5	17 356.5	17 321.5	22 716.5	22 692.0	
4 434.9	4-428.6	8 811.9	8 796.0							

Annex II to the Resolution

Table of Transmitting Frequencies of Radiotelephone Coast Stations

in kc/s (Single Sideband)

	4 Mc/s	band		8 Mc/s band					
Old freq	uencies	New freq	uencies	Old freq	uencies	New free	quencies		
Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies	Assigned frequencies	Carrier frequencies		
$\begin{array}{r} 4 & 369.4 \\ 4 & 372.5 \\ 4 & 375.7 \\ 4 & 375.7 \\ 4 & 378.8 \\ 4 & 382.1 \\ 4 & 385.2 \\ 4 & 385.2 \\ 4 & 388.5 \\ 4 & 391.6 \\ 4 & 394.9 \\ 4 & 394.9 \\ 4 & 394.9 \\ 4 & 394.9 \\ 4 & 398.0 \\ 4 & 401.3 \\$	$\begin{array}{r} 4 \ 368.0 \\ 4 \ 371.1 \\ 4 \ 374.3 \\ 4 \ 377.4 \\ 4 \ 380.7 \\ 4 \ 380.7 \\ 4 \ 383.8 \\ 4 \ 387.1 \\ 4 \ 390.2 \\ 4 \ 393.5 \\ 4 \ 393.5 \\ 4 \ 393.5 \\ 4 \ 393.5 \\ 4 \ 399.9 \\ 4 \ 403.0 \\ 4 \ 406.3 \\ 4 \ 409.4 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 412.7 \\ 4 \ 412.5 \\ 5 \ 4 \ 422.2 \\ 4 \ 425.5 \\ 4 \ 425.5 \\ 4 \ 425.5 \\ 4 \ 425.6 \\ 4 \ 431.8 \\ 4 \ 434.9 \end{array}$	4 363.0 4 366.1 4 369.2 4 372.4 4 375.6 4 378.8 4 382.0 4 385.2 4 388.4 4 391.6 4 394.8 4 391.6 4 394.8 4 398.0 4 401.2 4 404.4 4 407.6 4 410.8 4 410.8 4 414.0 4 417.2 4 420.4 4 423.6 4 426.8 4 430.0	$\begin{array}{r} 4 \ 361.6 \\ 4 \ 364.7 \\ 4 \ 367.8 \\ 4 \ 371.0 \\ 4 \ 374.2 \\ 4 \ 377.4 \\ 4 \ 380.6 \\ 4 \ 383.8 \\ 4 \ 387.0 \\ 4 \ 390.2 \\ 4 \ 390.2 \\ 4 \ 393.4 \\ 4 \ 396.6 \\ 4 \ 399.8 \\ 4 \ 403.0 \\ 4 \ 409.4 \\ 4 \ 409.4 \\ 4 \ 412.6 \\ 4 \ 419.0 \\ 4 \ 422.2 \\ 4 \ 425.4 \\ 4 \ 428.6 \end{array}$	8 746.4 8 749.5 8 752.7 8 755.8 8 759.1 8 762.2 8 765.5 8 768.6 8 771.9 8 775.0 8 778.3 8 781.4 8 784.7 8 787.8 8 791.1 8 794.2 8 797.5 8 800.6 8 803.9 8 807.0 8 810.2 8 813.3	8 745.0 8 748.1 8 751.3 8 754.4 8 757.7 8 760.8 3 764.1 8 767.2 8 770.5 8 770.5 8 773.6 8 776.9 8 780.0 8 783.3 8 786.4 8 789.7 8 792.8 8 796.1 8 799.2 8 802.5 8 805.6 8 808.8 8 811.9	8 730.4 8 733.5 8 736.6 8 739.8 8 743.0 8 746.2 8 749.4 8 752.6 8 755.8 8 759.0 8 762.2 8 765.4 8 765.4 8 765.4 8 765.4 8 765.4 8 771.8 8 775.0 8 778.2 8 781.4 8 781.4 8 784.6 8 787.8 8 791.0 8 794.2 8 797.4	8 729.0 8 732.1 8 735.2 8 738.4 8 741.6 8 744.8 8 744.8 8 748.0 8 751.2 8 754.4 8 757.6 8 760.8 8 764.0 8 764.0 8 767.2 8 770.4 8 773.6 8 776.8 8 776.8 8 780.0 8 783.2 8 786.4 8 789.6 8 792.8 8 796.0		

Note : It is understood that in the final version of this table, the column "Carrier frequencies" will appear on the left of the column "Assigned frequencies".

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Annex 5 to Document No. DT/126-E

Page 27 Table of Transmitting Frequencies of Radiotelephone Coast Stations.

	12	Mc/s band			16 Mc,	/s band	
Old free	quencies	New free	quencies	Old fre	quencies	New fre	quencies
Assigned	Carrier	Assigned	Carrier	Assigned	Carrier	Assigned	Carrier
frequencies	frequencies	frequencies	frequencies	frequencies	frequencies	frequencies	frequencies
13 131.6	13 13 0.2	13 110.4	13 109.0	17 291.6	17 290.2	17 256.4	17 255.0
13 134.9	13 133.5	13 113.9	13 112.5	17 294.9	17 293.5	17 259.9	17 258.5
13 138.6	13 137.2	13 117.4	13 116.0	17 298.6	17 297.2	17 263.4	17 262.0
13 141.9	13 140.5	13 120.9	13 119.5	17 301.9	17 300.5	17 266.9	17 265.5
13 145.6	13 144.2	13 124.4	13 123.0	17 305.6	17 304.2	17 270.4	17 269.0
13 148.9	13 147.5	13 127.9	13 126.5	17 308.9	17 307.5	17 27 3.9	17 272.5
13 152.6	13 151.2	13 131.4	13 130.0	17 312.6	17 311.2	17 277.4	17 276.0
13 155.9	13 154.5	13 134.9	13 133.5	17 315.9	17 314.5	17 280.9	17 279.5
13 159.6	13 158.2	13 138.4	13 137.0	17 319.6	17 318.2	17 284.4	17 283.0
13 162.9	13 161.5	13 141.9	13 140.5	17 322.9	17 321.5	17 287.9	17 286.5
13 166.6	13 165.2	13 145.4	13 144.0	17 326.6	17 325.2	17 291.4	17 290.0
13 169.9	13 168.5	13 148.9	13 147.5	17 329.9	17 328.5	17 294.9	17 293.5
13 173.6	13 172.2	13 152.4	13 151.0	17 333.6	17 332.2	17 298.4	17 297.0
13 176.9	13 175.5	13 155.9	13 154.5	17 336.9	17 335.5	17 301.9	17 300.5
13 180.6	13 179.2	13 159.4	13 158.0	17 340.6	17 339.2	17 305.4	17 304.0
13 183.9	13 182.5	13 162.9	13 161.5	17 343.9	17 342.5	17 308.9	17 307.5
13 187.6	13 186.2	13 166.4	13 165.0	17 347.6	17 346.2	17 312.4	17 311.0
13 190.9	13 189.5	13 169.9	13 168.5	17 350.9	17 349.5	17 315.9	17 314.5
13 194.6	13 193.2	13 173.4	13.172.0	17 354.6	17 353.2	17 319.4	17 318.0
13 197.9	13 196.5	13 176.9	13 175.5	17 357.9	17 356.5	17 322.9	17 321.5

in kc/s (Single Sideband)

Note : It is understood that in the final version of this table, the column "Carrier frequencies" will appear on the left of the column "Assigned frequencies".

Annex 5 to Document No. DT/126-E

Page 28

Table of Transmitting Frequencies of Radiotelephone Coast Stations.

in kc/s (Single Sideband)

e : It is understood that in the final version of this table, the column "Carrier frequencies" will appear on the left of the column "Assigned frequencies".

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ΑΝΝΕΧ 6

Article 33

• • •		
ADD	1227A	c) In Regions 1 and 3 and in Greenland, the carrier
	1	frequency 2191 kc/s (assigned frequency : 2192.4 kc/s)
		when carrier frequency 2182 kc/s is being used for
		distress.
• • •		
MOD	1228	(2) A radiotelephone ship station calling a coast
		station of another nationality should, as a general
		rule, use the carrier frequency 2182 kc/s or, in
		Regions 1 and 3 and in Greenland, the carrier frequency
		2191 kc/s (assigned frequency : 2192.4 kc/s) when the
		carrier frequency 2182 kc/s is being used for distress.
		However, where so agreed by administrations, the ship
		station may use a working frequency on which watch is
		kept by that coast station.
• • • •		
MOD	1233	(5) Subject to the provisions of No. 1235A, coast
		stations shall, in accordance with the requirements of
		their own country, call ship stations of their own
		nationality either on a working frequency, or, when
		calls to individual ships are made, on the carrier
		frequency 2182 kc/s.

•

Annex 6 to Document No. DT/126-E Page 30

Article 33 (cont.)

(8) Coast stations may call ships equipped to receive ADD 1235A selective call signals by sending class A2H emissions on carrier frequency 2182 kc/s or, in Regions 1 and 3 and in Greenland, on carrier frequency 2170.5 kc/s (assigned frequency 2171.9 kc/s) should circumstances so require. After transmission of the ship call number, they shall transmit an identification number to inform the ship of the name of the calling coast station (Nos./788F and 1318E to K/). 1248A ADD e) On a working frequency to calls made in Regions 1 and 3 and in Greenland on the carrier frequency 2191 kc/s (assigned frequency 2192.4 kc/s).

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INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/127-E 31 October 1967 Original : French, English, Spanish

PLENARY MEETING

INTERVENTION BY THE FRENCH DELEGATION

(RR pp. 200-201)

· ·	NOC	1013	
(R1-11)	ADD	1013A	(3) The procedure described in No. 1013 is not applicable to the maritime mobile service / see Nos. 1077A, 1077B and 1077C_/.
(Doc. 225 p. 6)	ADD		Method of calling in the maritime mobile service bands between 4000 kc/s and 27 500 kc/s
(Doc. 225 p. 6) (ex 1077A)	ADD	101 <i>3</i> B	 (1) bis. The call consists of : the call sign of the station called, not more than three times; the word DE; the call sign of the calling station, not more than three times; the signal — ··· — (separation sign); the call sign of the station called, once only; the letter K.
(Doc. 225 p. 6) (ex 1077B)	ADD	101 <i>3</i> C	(1) ter. For normal calling, when the requirements of No. 1162 have been met, the call specified in No. 1013B may be repeated at intervals of not less than one minute for



Document No. DI/127-E Page 2

(Doc. 225 p. 6) (ex 1077B) (cont.)	ADD.	10130	a period not exceeding five minutes and shall not be renewed until after an interval of ten minutes.
(Doc. 225 p. 6) (ex 1077C)	ADD	1013D	(1) quater. When, however, the conditions of establishing contact are difficult, the call sign may be transmitted not more than ten times in succession. The call shall consist of :
(Doc. 225 p.7) (ex 10770)		1013D (cont.)	 the call sign of the station called, not more than ten times; the word DE; the call sign of the calling station, not more than three times; the signal
			 the call sign of the station called, once only; the letter K.
			If necessary, this call may be transmitted a second time (see No. 1079). The call or group of two consecutive calls may be repeated three times at intervals of two minutes; thereafter it shall not be repeated until an interval of 10 minutes has elapsed.
(B10-07) (ex 1077D)	ADD	1013E	(1D) When calling a coast station which has indicated a special watch ¹⁾ on the calling frequencies 4186.5 kc/s, 6279.75 kc/s,
(B10-07) (ex 1077D.1)	ADD	101 <i>3</i> E ¹	Administrations whose coast stations keep watch on the special calling frequencies (No. 1013E) provided for the study of the new calling procedure, shall ensure that watch is also maintained on normal calling bands (see No. 1174) required by their service.

(B10-07) (ex 1077D) (cont.) 8373 kc/s, 12 559.5 kc/s, 16 746 kc/s and 22 262.5 kc/s ship stations do not apply the calling method contained in Nos. 1013B, 1013C and 1013D.

In these circumstances the call consists of :

- the call sign of the station called, not more than once,

- the word DE,

- the call sign of the calling station, not more than once.

This call may be transmitted three times at intervals of one minute; thereafter it shall not be repeated until after an interval of three minutes.

MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/128-E 25 October 1967 Original : French

COMMITTEE 3

DRAFT REPORT

BY THE BUDGET CONTROL COMMITTEE

TO THE PLENARY MEETING

The Budget Control Committee met twice during the Maritime Conference to examine the various points covered by its terms of reference.

As a result of this work, this report is submitted for consideration by the Plenary Meeting, in accordance with Chapter 9, Rule 5, of the General Regulations annexed to the International Telecommunication Convention (Montreux, 1965).

1. Budget of the Conference (Document No. 144)

The Committee took note of the budget of the Conference, the total of which was fixed at 1,050,000 Swiss frances by the Administrative Council.

2. Statement of expenditure of the Conference

Chapter 9, Rule 5, of the General Regulations states that the Budget Control Committee shall present a report to the Plenary Meeting showing, as accurately as possible, the estimated total expenditure of the Conference.

The Committee accordingly submits to the Plenary Meeting a statement showing the total budget approved by the Administrative Council, the apportionment of this total sum among the various sub-heads and items, transfers of credits and the expenditure on the Maritime Conference up to 20 October 1967. The statement, which is annexed to this report, includes an indication of commitments to expenditure at that date, together with estimated expenditure to be incurred up to the end of the Conference.

The statement shows estimated total expenditure amounting to 982,500 Swiss francs, which leaves a margin of 67,500 francs with respect to the budget of 1,050,000 francs approved by the Administrative Council.



Document No. DT/128-E Page 2

Under Chapter 9, Rule 5, No. 677, of the General Regulations, this report is to be transmitted, together with the observations of the Plenary Meeting, to the Secretary-General for submission to the Administrative Council at its next annual session.

3. Cost of printing the Final Acts (Document No. 324)

Under Administrative Council Resolution No. 83 (amended), it is for the Plenary Meeting to decide what share of the composition costs for the Final Acts shall be charged to the Conference account.

After considering this matter, the Budget Control Committee proposes to the Plenary Meeting that this share be fixed at one third.

4. Comments by the Committee

The Plenary Meeting is requested to approve this Report.

J. HERNANDEZ

Chairman

Annexe : (Same as the annex to Document No. 323)

INTERNATIONAL TELECOMMUNICATION UNION MARITIME CONFERENCE

GENEVA, 1967

Document No. DT/129-E 31 October 1967 Original : English

PLENARY MEETING

RECOMMENDATION No. ...

relating to the study of a Selective-calling System for future operational requirements of the maritime mobile service

The World Administrative Radio Conference, Geneva, 1967, noting

that the C.C.I.R. has prepared a draft Recommendation D.a(257-1), giving the characteristics of a selective-calling system for the maritime mobile service to fulfill immediate requirements of those administrations having such a need;

that the World Administrative Radio Conference, Geneva, 1967 has adopted and included in Articles 19, 28A and Appendix 20C of the Radio Regulations provisions for utilization of this system;

that the C.C.I.R. has adopted Question 9/XIII on the subject of selective-calling system for future operational requirements of the maritime mobile service;

urges the C.C.I.R.

to complete the studies in response to Question 9/XIII as soon as possible;

and invites the administrations

in their participation in the work of the C.C.I.R. to give priority to these studies.

Add at the end of : 999B (See Recommendation No. ...).





c)

a)