



PUBLIC NOTICE

Federal Communications Commission
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WIRELESS TELECOMMUNICATIONS BUREAU REFRESHES RECORD ON PERFORMANCE STANDARDS FOR MARITIME RADIOCOMMUNICATIONS EQUIPMENT LISTED IN PART 80 OF THE COMMISSION'S RULES

RM-11765

Comments Due: October 21, 2024

Reply Comments Due: November 4, 2024

By this Public Notice, the Wireless Telecommunications Bureau (Bureau) seeks to refresh the record in this proceeding, with respect to updating the performance standards for maritime radiocommunications equipment incorporated by reference in part 80 of the Commission's rules. Specifically, the Bureau seeks comment on which performance standards need updating and, if an update is recommended, to what standard. A list of the performance standards currently incorporated in part 80 is provided in the Appendix to this Public Notice.

In February 2016, the Radio Technical Commission for Maritime Services (RTCM) filed a Petition for Rulemaking (RTCM Petition) which requested, among other changes, an update to the performance standards and recommendations incorporated in the Commission's rules.¹ The Bureau subsequently issued a Public Notice, seeking public comment on the RTCM Petition.² The Bureau notes, however, that several performance standards have been updated since the RTCM Petition and associated comments were submitted. For instance, the Bureau issued a Public Notice on July 15, 2024, notifying the public that the International Maritime Organization (IMO) has updated performance standards associated with various Global Maritime Distress and Safety System (GMDSS) radiocommunications equipment.³ Accordingly, the Bureau seeks to refresh the record in this proceeding to ensure consideration of the latest version of performance standards referenced in part 80.

¹ Petition of the Radio Technical Commission for Maritime Services for Rulemaking (filed Feb. 16, 2016), <https://www.fcc.gov/ecfs/document/60001428341/2> and <https://www.fcc.gov/ecfs/document/60001428341/1> (RTCM Petition).

² *Wireless Telecommunications Bureau Seeks Comment on Radio Technical Commission for Maritime Services Petition for Rulemaking to Update Part 80 of the Commission's Rules*, RM-11765, Public Notice (WTB 2016).

³ In June 2019 and April 2022, the IMO updated the performance standards for the following GMDSS radiocommunications equipment: emergency position-indicating radio beacons, maritime safety information and search and rescue related information transmitted by medium frequency (MF) (NAVTEX) and high frequency (HF) radios, search and rescue radar transponders, shipborne very high frequency (VHF) radio installations capable of voice communication and digital selective calling, shipborne MF and MF/HF radio installations, Inmarsat-C ship earth stations, survival craft portable two-way VHF radiotelephone apparatus, aeronautical portable two-way VHF radiotelephone apparatus, and shipborne integrated communication systems. See *Wireless Telecommunications Bureau Highlights Recent Amendments to the International Convention for the Safety of Life at Sea, 1974, Affecting Compulsory Vessels and Vessel Inspectors*, DA 24-682, Public Notice (WTB 2024).

To the extent commenters believe a reference to a standard in our rules should be updated, we ask them to identify: (1) the name of the standard, (2) the specific updated version of the standard that commenters recommend the Commission incorporate into its rules, (3) the rule section(s) where the standard appears, (4) the element(s) of the standard which have been modified from the version currently referenced in part 80, (5) the costs and benefits of referencing the updated standard, (6) the class(es) of vessel to which the standard should apply, (7) implementation challenges (e.g., backwards compatibility, transition timing, equipment update methods), and (8) how updating the standard would serve the public interest.

Further, the Bureau seeks comment on whether the current organization of part 80 aids in the understanding of, compliance with, and updating of performance standards. For example, the RTCM Petition included proposed revisions to section 80.7 that RTCM stated would “allow [for the] updating of all standards referenced in [p]art 80 to be accomplished in [section 80.7] only.”⁴ RTCM continued that its proposed revision “is intended to simplify the rulemaking process necessary whenever the standards incorporated in this [p]art are routinely updated . . . and to enable these references to be kept up to date.”⁵ Thus, the Bureau seeks comment on how it should organize part 80 to allow for an expedient incorporation of future updated performance standards. How would referencing all standards in a single rule section impact licensees’ use and understanding of the rules and relevant standards?

For consistency, the Bureau has not opened a new docket, but has retained docket number RM-11765.⁶ Accordingly, parties should file all comments and reply comments in docket number RM-11765.

Procedural Matters

Interested parties may file comments and reply comments on or before the dates indicated on the first page of this document. Comments may be filed using the Commission’s Electronic Comment Filing System (ECFS).

- Electronic Filers: Comments may be filed electronically using the Internet by accessing the ECFS: <https://www.fcc.gov/ecfs/>.
- Paper Filers: Parties who choose to file by paper must file an original and one copy of each filing.
- Filings can be sent by hand or messenger delivery, by commercial courier, or by the U.S. Postal Service. **All filings must be addressed to the Secretary, Federal Communications Commission.**
- Hand-delivered or messenger-delivered paper filings for the Commission’s Secretary are accepted between 8:00 a.m. and 4:00 p.m. by the FCC’s mailing contractor at 9050 Junction Drive, Annapolis Junction, MD 20701. All hand deliveries must be held together with rubber bands or fasteners. Any envelopes and boxes must be disposed of before entering the building.
- Commercial courier deliveries (any deliveries not by the U.S. Postal Service) must be sent to 9050 Junction Drive, Annapolis Junction, MD 20701.
- Filings sent by U.S. Postal Service First-Class Mail, Priority Mail, and Priority Mail Express must be sent to 45 L Street NE, Washington, DC 20554.

⁴ RTCM Petition, at 23.

⁵ *Id.*

⁶ FCC, *Electronic Comment Filing System (ECFS)*, [https://www.fcc.gov/ecfs/search/search-filings/results?q=\(proceedings.name:\(%22RM-11765%22\)+AND+RTCM+AND+date_received:%5b2016-01-01%20TO%202016-12-31%5d\)](https://www.fcc.gov/ecfs/search/search-filings/results?q=(proceedings.name:(%22RM-11765%22)+AND+RTCM+AND+date_received:%5b2016-01-01%20TO%202016-12-31%5d)) (last visited on Sept. 3, 2024).

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Additional Information: For further information regarding this Public Notice, please contact Kathleen Curameng by telephone at 571-435-9424 or by e-mail at Kathleen.Curameng@fcc.gov.

By the Chief, Mobility Division, Wireless Telecommunications Bureau.

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APPENDIX
List of Performance Standards

The International Maritime Organization (IMO)

IMO Resolution A.525(13)
 IMO Maritime Safety Committee (MSC) Resolution MSC.148(77)
 IMO Assembly Resolution A.662(16)
 IMO Assembly Resolution A.664(16)
 IMO Resolution A.694(17)
 IMO Resolution MSC.149(77)
 IMO Assembly Resolution A.700(17)
 IMO Assembly Resolution A.801(19)
 Appendix 13, Annex 5
 IMO Assembly Resolution A.802(19)
 IMO Resolution MSC.247(83)
 IMO Assembly Resolution A.803(19)
 IMO Resolution MSC.68(68)
 IMO Assembly Resolution A.804(19)
 IMO Assembly Resolution A.806(19)
 IMO Assembly Resolution A.807(19)

IMO Assembly Resolution A.808(19)
 IMO Assembly Resolution A.809(19)
 IMO Assembly Resolution A.810(19)

IMO Resolution MSC.56(66)
 IMO Resolution MSC.120(74)
 IMO Assembly Resolution A.811(19)
 IMO Assembly Resolution A.1001(25)
 IMO Resolution MSC.74(69)
 IMO Resolution MSC.80(70)
 IMO Resolution MSC.191(79)
 IMO Resolution MSC.192(79)
 IMO Circular MSC/Circ.1040
 IMO Resolution MSC.246(83)
 IMO Resolution MSC.A.525(13)
 IMO Resolution A.569(14)

The International Telecommunication Union (ITU)

ITU-R Recommendation M.476-5
 ITU-R Recommendation M.492-6

ITU-R Recommendation M.493-13
 ITU-R Recommendation M.540-2
 ITU-R Recommendation M.541-9
 ITU-R Recommendation M.625-3
 ITU-R Recommendation M.628-4
 ITU-R Recommendation M.633-3

ITU-R Recommendation M.824-3
 ITU-R Recommendation M.1177-3
 ITU-R Recommendation M.1371-3
 ITU-T Recommendation E.161
 ITU-T Recommendation E.164.1

The International Organization for Standardization (ISO)

ISO Standard 3791

The Radio Technical Commission for Maritime Services (RTCM)

RTCM Paper 56-95/SC101-STD
 RTCM Standard 11000.3
 RTCM Standard 11020.1
 RTCM Standard 12301.1

The International Electrotechnical Commission (IEC)

IEC 60092-101:1994 + A1:1995
 IEC 60533:1999(E)

IEC 60945:2002
 IEC 61097-1:2007(E)
 IEC 61097-3:1994
 IEC 61097-4
 IEC 61097-6:2005(E)
 IEC 61097-7:1996

IEC 61097-8:1998(E)
 IEC 61097-9:1997(E)
 IEC 61097-10:1999(E)
 IEC 61097-12:1996(E)
 IEC 61097-13:2003(E)
 IEC 61097-14
 IEC 61162-1:2007(E)

IEC 61993-2:2001(E)
 IEC 62238:2003(E)
 IEC 62287-1:2006(E)

IEC 62388

The International Maritime Organization (IMO)

<u><i>The International Maritime Organization (IMO)</i></u>	<u><i>Part 80 Regulations Affected</i></u>	<u><i>Radiocommunication Equipment</i></u>
IMO Resolution A.525(13)	§§ 80.7, 80.1101	Narrow Band Direct Printing Telegraph Equipment, NAVTEX
IMO Maritime Safety Committee (MSC) Resolution MSC.148(77)	§§ 80.7, 80.905, 80.1101	Narrow Band Direct Printing Telegraph Equipment, NAVTEX
IMO Assembly Resolution A.662(16)	§§ 80.7, 80.1101	Float-Free Release and Activation Arrangements for Emergency Radio Equipment
IMO Assembly Resolution A.664(16)	§ 80.7	Enhanced Group Call Equipment
IMO Resolution A.694(17)	§§ 80.7, 80.273, 80.1101	Shipborne Radio Equipment, GMDSS
IMO Resolution MSC.149(77)	§§ 80.7, 80.273, 80.1101	Two-Way VHF Radiotelephone Apparatus
IMO Assembly Resolution A.700(17)	§§ 80.7, 80.1101	Narrow Band Direct Printing Telegraph Equipment, HF, MF/HF Radio Equipment
IMO Assembly Resolution A.801(19)	§§ 80.7, 80.1091	GMDSS, INMARSAT Shore-Based Facilities
IMO Assembly Resolution A.802(19)	§§ 80.7, 80.1101	Survival Craft Radar Transponders
IMO Resolution MSC.247(83)	§§ 80.7, 80.1101	Survival Craft Radar Transponders
IMO Assembly Resolution A.803(19)	§§ 80.7, 80.1101	Shipborne VHF Radio Installations, Voice and DSC
IMO Resolution MSC.68(68)	§§ 80.7, 80.1101	Shipborne Radiocommunications Equipment
IMO Assembly Resolution A.804(19)	§§ 80.7, 80.1101	Shipborne MF Radio Installations, Voice and DSC
IMO Assembly Resolution A.806(19)	§§ 80.7, 80.1101	Shipborne MF/HF Radio Installations, Voice, Narrow-Band Direct Printing, and DSC
IMO Assembly Resolution A.807(19)	§§ 80.7, 80.1101	INMARSAT-C Ship Earth Stations, Direct-Printing Communications
IMO Assembly Resolution A.808(19)	§§ 80.7, 80.1101	Ship Earth Stations Capable of Two-Way Communications
IMO Assembly Resolution A.809(19)	§§ 80.7, 80.1101	Two-Way VHF Radiotelephone Apparatus
IMO Assembly Resolution A.810(19)	§§ 80.7, 80.1101	Float-Free Satellite EPIRB
IMO Resolution MSC.56(66)	§§ 80.7, 80.1101	Float-Free Satellite EPIRB
IMO Resolution MSC.120(74)	§§ 80.7, 80.1101	Float-Free Satellite EPIRB

IMO Assembly Resolution A.811(19)	§§ 80.7, 80.1083	Shipborne Integrated Radiocommunication System
IMO Assembly Resolution A.1001(25)	§§ 80.7, 80.1091	Mobile Satellite Communication Systems in the GMDSS, INMARSAT
IMO Resolution MSC.74(69)	§§ 80.7, 80.1101	Universal Shipborne AIS
IMO Resolution MSC.80(70)	§§ 80.7, 80.1101	Radio Communications Equipment, Two-Way VHF Radiotelephone
IMO Resolution MSC.191(79)	§§ 80.7, 80.273, 80.1101	Shipborne Navigational Displays, Shipboard Radar
IMO Resolution MSC.192(79)	§§ 80.7, 80.273, 80.1101	Radar Equipment, Shipboard Radar
IMO Circular MSC/Circ.1040	§§ 80.7, 80.1085	Satellite EPIRB
IMO Resolution MSC.246(83)	§§ 80.7, 80.233	AIS-SART
IMO Resolution MSC.A.525(13)	§§ 80.7, 80.905, 80.1101	NAVTEX, Narrow-Band Direct Printing Telegraph
IMO Resolution A.569(14)	§ 80.1105	Shipborne Radio Equipment, GMDSS

The International Telecommunication Union (ITU)

<u><i>The International Telecommunication Union (ITU)</i></u>	<u><i>Part 80 Regulations Affected</i></u>	<u><i>Radiocommunication Equipment</i></u>
ITU-R Recommendation M.476-5	§§ 80.7, 80.207, 80.219, 80.225	Direct Printing Telegraph Equipment
ITU-R Recommendation M.492-6	§§ 80.7, 80.142	Direct Printing Telegraph Equipment
ITU-R Recommendation M.493-13	§§ 80.5, 80.7, 80.179, 80.225, 80.1101, 80.1113	Digital Selective Calling (DSC)
ITU-R Recommendation M.540-2	§§ 80.7, 80.905, 80.1101, 80.1135	Automated Direct Printing Telegraph
ITU-R Recommendation M.541-9	§§ 80.5, 80.7, 80.103, 80.179, 80.225, 80.359, 80.1101, 80.1113, 80.1117	DSC
ITU-R Recommendation M.625-3	§§ 80.7, 80.207, 80.225, 80.1125, 80.1127, 80.1131, 80.1133	Direct Printing Telegraph Equipment Employing Automatic Identification
ITU-R Recommendation M.628-4	§§ 80.7, 80.1101, 80.1129	Search and Rescue Transponder
ITU-R Recommendation M.633-3	§§ 80.7, 80.1101	Satellite EPIRB
ITU-R Recommendation M.824-3	§§ 80.7, 80.605	Radar Beacons
ITU-R Recommendation M.1177-3	§§ 80.7, 80.273, 80.1101	Radar Systems
ITU-R Recommendation M.1371-3	§§ 80.7, 80.1101	Automatic Identification System (AIS)
ITU-T Recommendation E.161	§ 80.7	International Operation--Numbering Plan of the International Telephone Service
ITU-T Recommendation E.164.1	§§ 80.7, 80.1101	International Operation--Numbering Plan of the International Telephone Service

The International Electrotechnical Commission (IEC)

<u><i>The International Electrotechnical Commission (IEC)</i></u>	<u><i>Part 80 Regulations Affected</i></u>	<u><i>Radiocommunication Equipment</i></u>
IEC 60092-101:1994 + A1:1995	§§ 80.7, 80.1101	Electrical Installation in Ships
IEC 60533:1999(E)	§§ 80.7, 80.1101	Electrical and Electronic Installation in Ships
IEC 60945:2002	§§ 80.7, 80.1101	Maritime Navigation and Radiocommunications Equipment and Systems-- General Requirements
IEC 61097-1:2007(E)	§§ 80.7, 80.1101	Search and Rescue Transponder (SART)
IEC 61097-3:1994	§§ 80.7, 80.1101	Digital Selective Calling (DSC)
IEC 61097-4	§§ 80.7, 80.1101	INMARSAT-C Ship Earth Station and INMARSAT Enhanced Group Call
IEC 61097-6:2005(E)	§§ 80.7, 80.1101	Narrowband Direct-Printing Telegraph Equipment, NAVTEX
IEC 61097-7:1996	§§ 80.7, 80.1101	Shipborne VHF Radiotelephone Transmitter and Receiver
IEC 61097-8:1998(E)	§§ 80.7, 80.1101	Shipborne Watchkeeping Receivers, MF-DSC, MF/HF-DSC, VHF-DSC
IEC 61097-9:1997(E)	§§ 80.7, 80.1101	Shipborne Transmitters and Receivers for Use in the MF and HF bands suitable for telephony, DSC, and narrow band direct printing
IEC 61097-10:1999(E)	§§ 80.7, 80.1101	INMARSAT-B Ship Earth Station Equipment
IEC 61097-12:1996(E)	§§ 80.7, 80.1101	Two-Way VHF Radiotelephone Apparatus
IEC 61097-13:2003(E)	§§ 80.7, 80.1101	INMARSAT F77 Ship Earth Station Equipment
IEC 61097-14	§§ 80.7, 80.233	Automatic Identification System (AIS)-SART
IEC 61162-1:2007(E)	§§ 80.7, 80.1101	Digital Interfaces
IEC 61993-2:2001(E)	§§ 80.7, 80.1101	AIS
IEC 62238:2003(E)	§§ 80.7, 80.225, 80.273	VHF Radiotelephone Equipment Incorporating Class "D" DSC
IEC 62287-1:2006(E)	§§ 80.7, 80.231	Class B Shipborne Equipment of the AIS
IEC 62388	§§ 80.7, 80.1101	Shipborne Radar

The International Organization for Standardization (ISO)

The International Organization for Standardization (ISO)

Part 80 Regulations Affected

Radiocommunication Equipment

ISO Standard 3791

§§ 80.7, 80.1101

Office Machines and Data Processing Equipment

The Radio Technical Commission for Maritime Services (RTCM)

<u><i>The Radio Technical Commission for Maritime Services (RTCM)</i></u>	<u><i>Part 80 Regulations Affected</i></u>	<u><i>Radiocommunication Equipment</i></u>
RTCM Paper 56-95/SC101-STD	§§ 80.7, 80.225	Digital Selective Calling
RTCM Standard 11000.3	§§ 80.7, 80.1061	406 MHz EPIRBs
RTCM Standard 11020.1	§§ 80.7, 80.277	Ship Security Alert System, COSPAS-SARSAT
RTCM Standard 12301.1	§§ 80.7, 80.364	VHF-FM Digital Small Message Services