

SUBCHAPTER D—SAFETY AND SPECIAL RADIO SERVICES

PART 80—STATIONS IN THE MARITIME SERVICES

Subpart A—General Information

GENERAL

- Sec.
- 80.1 Basis and purpose.
- 80.2 Other regulations that apply.
- 80.3 Other applicable rule parts of this chapter.
- 80.5 Definitions.

Subpart B—Applications and Licenses

- 80.11 Scope.
- 80.13 Station license required.
- 80.15 Eligibility for station license.
- 80.17 Administrative classes of stations.
- 80.21 Supplemental information required.
- 80.25 License term.
- 80.31 Cancellation of license.
- 80.33 Developmental license.
- 80.37 One authorization for a plurality of stations.
- 80.39 Authorized station location.
- 80.41 Control points and dispatch points.
- 80.43 Equipment acceptable for licensing.
- 80.45 Frequencies.
- 80.47 Operation during emergency.
- 80.49 Construction and regional service requirements.
- 80.51 Ship earth station licensing.
- 80.53 Application for a portable ship station license.
- 80.54 Automated Maritime Telecommunications System (AMTS)—System Licensing.
- 80.55 Application for a fleet station license.
- 80.57 Canada/U.S.A. channeling arrangement for VHF maritime public correspondence.
- 80.59 Compulsory ship inspections.
- 80.60 Partitioned licenses and disaggregated spectrum.

Subpart C—Operating Requirements and Procedures

STATION REQUIREMENTS—GENERAL

- 80.61 Commission inspection of stations.
- 80.63 Maintenance of transmitter power.

STATION REQUIREMENTS—LAND STATIONS

- 80.67 General facilities requirements for coast stations.
- 80.68 Facilities requirements for public coast stations using telegraphy.
- 80.69 Facilities requirement for public coast stations using telephony.
- 80.70 Special conditions relative to coast station VHF facilities.

- 80.71 Operating controls for stations on land.
- 80.72 Antenna requirements for coast stations.
- 80.74 Public coast station facilities for a telephony busy signal.
- 80.76 Requirements for land station control points.

STATION REQUIREMENTS—SHIP STATIONS

- 80.79 Inspection of ship station by a foreign Government.
- 80.80 Operating controls for ship stations.
- 80.81 Antenna requirements for ship stations.
- 80.83 Protection from potentially hazardous RF radiation.

OPERATING PROCEDURES—GENERAL

- 80.86 International regulations applicable.
- 80.87 Cooperative use of frequency assignments.
- 80.88 Secrecy of communication.
- 80.89 Unauthorized transmissions.
- 80.90 Suspension of transmission.
- 80.91 Order of priority of communications.
- 80.92 Prevention of interference.
- 80.93 Hours of service.
- 80.94 Control by coast or Government station.
- 80.95 Message charges.
- 80.96 Maintenance tests.
- 80.97 Radiotelegraph operating procedures.
- 80.98 Radiotelegraph testing procedures.
- 80.99 Radiotelegraph station identification.
- 80.100 Morse code requirement.
- 80.101 Radiotelephone testing procedures.
- 80.102 Radiotelephone station identification.
- 80.103 Digital selective calling (DSC) operating procedures.
- 80.104 Identification of radar transmissions not authorized.

OPERATING PROCEDURES—LAND STATIONS

- 80.105 General obligations of coast stations.
- 80.106 Intercommunication in the mobile service.
- 80.107 Service of private coast stations and marine-utility stations.
- 80.108 Transmission of traffic lists by coast stations.
- 80.109 Transmission to a plurality of mobile stations by a public coast station.
- 80.110 Inspection and maintenance of antenna structure markings and associated control equipment.
- 80.111 Radiotelephone operating procedures for coast stations.

OPERATING PROCEDURES—SHIP STATIONS

- 80.114 Authority of the master.

- 80.115 Operational conditions for use of associated ship units.
- 80.116 Radiotelephone operating procedures for ship stations.

SPECIAL PROCEDURES—PUBLIC COAST STATIONS

- 80.121 Public coast stations using telegraphy.
- 80.122 Public coast stations using facsimile and data.
- 80.123 Service to stations on land.

SPECIAL PROCEDURES—PRIVATE COAST STATIONS

- 80.131 Radioprinter operations.
- 80.133 Private coast stations using facsimile in Alaska.

SPECIAL PROCEDURES—SHIP STATIONS

- 80.141 General provisions for ship stations.
- 80.142 Ships using radiotelegraphy.
- 80.143 Required frequencies for radiotelephony.
- 80.145 [Reserved]

SHIPBOARD GENERAL PURPOSE WATCHES

- 80.146 [Reserved]
- 80.147 Watch on 2182 kHz.
- 80.148 Watch on 156.8 MHz (Channel 16).

VIOLATIONS

- 80.149 Answer to notice of violation.

Subpart D—Operator Requirements

- 80.151 Classification of operator licenses and endorsements.

COAST STATION OPERATOR REQUIREMENTS

- 80.153 Coast station operator requirements.

SHIP STATION OPERATOR REQUIREMENTS

- 80.155 Ship station operator requirements.
- 80.156 Control by operator.
- 80.157 Radio officer defined.
- 80.159 Operator requirements of Title III of the Communications Act and the Safety Convention.
- 80.161 Operator requirements of the Great Lakes Radio Agreement.
- 80.163 Operator requirements of the Bridge-to-Bridge Act.
- 80.165 Operator requirements for voluntary stations.

GENERAL OPERATOR REQUIREMENTS

- 80.167 Limitations on operators.
- 80.169 Operators required to adjust transmitters or radar.
- 80.175 Availability of operator licenses.
- 80.177 When operator license is not required.
- 80.179 Unattended operation.

Subpart E—General Technical Standards

- 80.201 Scope.
- 80.203 Authorization of transmitters for licensing.
- 80.205 Bandwidths.
- 80.207 Classes of emission.
- 80.209 Transmitter frequency tolerances.
- 80.211 Emission limitations.
- 80.213 Modulation requirements.
- 80.215 Transmitter power.
- 80.217 Suppression of interference aboard ships.
- 80.219 Special requirements for narrow-band direct-printing (NB-DP) equipment.
- 80.221 Special requirements for automatically generating the radiotelephone alarm signal.
- 80.223 Special requirements for survival craft stations.
- 80.225 Requirements for selective calling equipment.
- 80.227 Special requirements for protection from RF radiation.
- 80.229 Special requirements for automatic link establishment (ALE).

Subpart F—Equipment Authorization for Compulsory Ships

- 80.251 Scope.
- 80.268 Technical requirements for radiotelephone installation.
- 80.269 Technical requirements for radiotelephone distress frequency watch receiver.
- 80.271 Technical requirements for portable survival craft radiotelephone transceivers.
- 80.273 Technical requirements for radar equipment.
- 80.288 Direction finding and homing equipment.
- 80.289 Requirements for radio direction finder.
- 80.290 Auxiliary receiving antenna.
- 80.291 Installation of direction finder.
- 80.292 Contingent acceptance of direction finder calibration.
- 80.293 Check bearings by authorized ship personnel.

Subpart G—Safety Watch Requirements and Procedures

COAST STATION SAFETY WATCHES

- 80.301 Watch requirements.
- 80.302 Notice of discontinuance, reduction, or impairment of service involving a distress watch.
- 80.303 Watch on 156.800 MHz (Channel 16).

SHIP STATION SAFETY WATCHES

- 80.304 Watch requirement during silence periods.
- 80.305 Watch requirements of the Communications Act and the Safety Convention.

Federal Communications Commission

Pt. 80

- 80.306 Provisions governing the radiotelegraph watch.
- 80.307 Compulsory use of radiotelegraph auto alarm.
- 80.308 Watch required by the Great Lakes Radio Agreement.
- 80.309 Watch required by the Bridge-to-Bridge Act.
- 80.310 Watch required by voluntary vessels.

DISTRESS, ALARM, URGENCY AND SAFETY PROCEDURES

- 80.311 Authority for distress transmission.
- 80.312 Priority of distress transmissions.
- 80.313 Frequencies for use in distress.
- 80.314 Distress signals.
- 80.315 Distress calls.
- 80.316 Distress messages.
- 80.317 Radiotelegraph and radiotelephone alarm signals.
- 80.318 Use of alarm signals.
- 80.319 Radiotelegraph distress call and message transmission procedure.
- 80.320 Radiotelephone distress call and message transmission procedure.
- 80.321 Acknowledgement of receipt of distress message.
- 80.322 Form of acknowledgement.
- 80.323 Information furnished by an acknowledging station.
- 80.324 Transmission of distress message by station not itself in distress.
- 80.325 Control of distress traffic.
- 80.326 Notification of resumption of normal working.
- 80.327 Urgency signals.
- 80.328 Urgency message.
- 80.329 Safety signals.
- 80.330 Safety message.
- 80.331 Bridge-to-bridge communication procedure.
- 80.332 Equipment to aid search and rescue operations.
- 80.333 Stations in the maritime mobile-satellite service.
- 80.334 False distress alerts.
- 80.335 Procedures for canceling false distress alerts.

Subpart H—Frequencies

RADIOTELEGRAPHY

- 80.351 Scope.
- 80.353 [Reserved]
- 80.355 Distress, urgency, safety, call and reply Morse code frequencies.
- 80.357 Working frequencies for Morse code and data transmission.
- 80.359 Frequencies for digital selective calling (DSC).
- 80.361 Frequencies for narrow-band direct-printing (NBDP), radioprinter and data transmissions.
- 80.363 Frequencies for facsimile.

RADIOTELEPHONY

- 80.365 Scope.
- 80.367 General uses—radiotelephony.
- 80.369 Distress, urgency, safety, call and reply frequencies.
- 80.371 Public correspondence frequencies.
- 80.373 Private communications frequencies.
- 80.374 Provisions for frequencies in the 4000–4063 and the 8100–8195 kHz bands shared with the fixed service.

RADIODETERMINATION

- 80.375 Radiodetermination frequencies.

SHIP EARTH STATIONS

- 80.377 Frequencies for ship earth stations.

AIRCRAFT STATIONS

- 80.379 Maritime frequencies assignable to aircraft stations.

OPERATIONAL FIXED STATIONS

- 80.381 Frequencies for operational fixed stations.

VESSEL TRAFFIC SERVICES SYSTEM (VTS)

- 80.383 Vessel Traffic Services (VTS) system frequencies.

AUTOMATED SYSTEMS

- 80.385 Frequencies for automated systems.

ALASKA FIXED STATIONS

- 80.387 Frequencies for Alaska fixed stations.

MARITIME SUPPORT STATIONS

- 80.389 Frequencies for maritime support stations.

DEVELOPMENTAL STATIONS

- 80.391 Frequencies for developmental stations.

Subpart I—Station Documents

- 80.401 Station documents requirement.
- 80.403 Availability of documents.
- 80.405 Station license.
- 80.407 Operator authorization.
- 80.409 Station logs.
- 80.411 Vessel certification or exemption.
- 80.413 On-board station equipment records.
- 80.415 Publications.
- 80.417 FCC Rules and Regulations.

Subpart J—Public Coast Stations

STATIONS ON LAND

- 80.451 Supplemental eligibility requirements.
- 80.453 Scope of communications.

Pt. 80

47 CFR Ch. I (10–1–04 Edition)

USE OF TELEGRAPHY

- 80.455 Assignment and use of frequencies for manual Morse code telegraphy.
- 80.459 Digital selective calling.
- 80.461 Narrow-band direct-printing.

USE OF TELEPHONY

- 80.465 Assignment and use of frequencies for telephony.
- 80.467 Duplication of VHF service.
- 80.469 Maritime mobile repeater stations in Alaska.
- 80.471 Discontinuance or impairment of service.

AUTOMATED SYSTEMS

- 80.475 Scope of service of the Automated Maritime Telecommunications Systems (AMTS).
- 80.477 AMTS points of communication.
- 80.479 Assignment and use of frequencies for AMTS.
- 80.481 Alternative technical parameters for AMTS transmitters.

Subpart K—Private Coast Stations and Marine Utility Stations

- 80.501 Supplemental eligibility requirements.
- 80.503 Cooperative use of facilities.
- 80.505 Points of communication.
- 80.507 Scope of service.
- 80.509 Frequency assignment.
- 80.511 Assignment limitations.
- 80.513 Frequency coordination.
- 80.514 Marine VHF frequency coordinating committee(s).
- 80.515 Limitations on use.
- 80.517 Time limitation on communication.
- 80.519 Station identification.

Subpart L—Operational Fixed Stations

- 80.551 Applicability.
- 80.553 Supplemental eligibility requirements.
- 80.555 Scope of communication.
- 81.557 Assignment and use of frequencies.
- 81.559 Licensing limitations.

Subpart M—Stations in the Radiodetermination Service

- 80.601 Scope of communications.
- 80.603 Assignment and use of frequencies.
- 80.605 U.S. Coast Guard coordination.

Subpart N—Maritime Support Stations

- 80.651 Supplemental eligibility requirements.
- 80.653 Scope of communications.
- 80.655 Use of frequencies.
- 80.659 Technical requirements.

Subpart O—Alaska Fixed Stations

- 80.701 Scope of service.
- 80.703 Priority of distress and other signals.
- 80.705 Hours of service of Alaska-public fixed stations.
- 80.707 Cooperative use of frequency assignments.
- 80.709 Frequencies available.
- 80.711 Use of U.S. Government frequencies.

Subpart P—Standards for Computing Public Coast Station VHF Coverage

- 80.751 Scope.
- 80.753 Signal strength requirements at the service area contour.
- 80.755 Applicability.
- 80.757 Topographical data.
- 80.759 Average terrain elevation.
- 80.761 Conversion graphs.
- 80.763 Effective antenna height.
- 80.765 Effective radiated power.
- 80.767 Propagation curve.
- 80.769 Shadow loss.
- 80.771 Method of computing coverage.
- 80.773 Co-channel interference protection.

Subpart Q [Reserved]

Subpart R—Compulsory Radiotelephone Installations for Vessels 300 Gross Tons

- 80.851 Applicability.
- 80.853 Radiotelephone station.
- 80.854 Radiotelephone installation.
- 80.855 Radiotelephone transmitter.
- 80.858 Radiotelephone receiver.
- 80.859 Main power supply.
- 80.860 Reserve power supply.
- 80.861 Required capacity.
- 80.862 Proof of capacity.
- 80.863 Antenna system.
- 80.864 Emergency electric lights.
- 80.865 Radiotelephone station clock.
- 80.866 Spare antenna.
- 80.867 Ship station tools, instruction books, circuit diagrams and testing equipment.
- 80.868 Card of instructions.
- 80.869 Test of radiotelephone station.
- 80.871 VHF radiotelephone station.
- 80.872 The VHF radiotelephone installation.
- 80.873 VHF radiotelephone transmitter.
- 80.874 VHF radiotelephone receiver.
- 80.875 VHF radiotelephone power supply.
- 80.876 VHF radiotelephone antenna system.
- 80.877 Controls and indicators required for VHF radiotelephone installation.
- 80.880 Vessel radio equipment.
- 80.881 Equipment requirements for ship stations.

Subpart S—Compulsory Radiotelephone Installations for Small Passenger Boats

- 80.901 Applicability.
- 80.903 Inspection of radiotelephone installation.

- 80.905 Vessel radio equipment.
- 80.907 Principal operating position.
- 80.909 Radiotelephone transmitter.
- 80.911 VHF transmitter.
- 80.913 Radiotelephone receivers.
- 80.915 Main power supply.
- 80.917 Reserve power supply.
- 80.919 Required capacity.
- 80.921 Proof of capacity.
- 80.923 Antenna system.
- 80.925 Electric light.
- 80.927 Antenna radio frequency indicator.
- 80.929 Nameplate.
- 80.931 Test of radiotelephone installation.
- 80.933 General small passenger vessel exemptions.
- 80.935 Station clock.

**Subpart T—Radiotelephone Installation
Required for Vessels on the Great Lakes**

- 80.951 Applicability.
- 80.953 Inspection and certification.
- 80.955 Radiotelephone installation.
- 80.956 Required frequencies and uses.
- 80.957 Principal operating position.
- 80.959 Radiotelephone transmitter.
- 80.961 Radiotelephone receiver.
- 80.963 Main power supply.
- 80.965 Reserve power supply.
- 80.967 Antenna system.
- 80.969 Illumination of operating controls.
- 80.971 Test of radiotelephone installation.

**Subpart U—Radiotelephone Installations
Required by the Bridge-to-Bridge Act**

- 80.1001 Applicability.
- 80.1003 Station required.
- 80.1005 Inspection of station.
- 80.1007 Bridge-to-bridge radiotelephone installation.
- 80.1009 Principal operator and operating position.
- 80.1011 Transmitter.
- 80.1013 Receiver.
- 80.1015 Power supply.
- 80.1017 Antenna system.
- 80.1019 Antenna radio frequency indicator.
- 80.1021 Nameplate.
- 80.1023 Test of radiotelephone installation.

**Subpart V—Emergency Position Indicating
Radiobeacons (EPIRB's)**

- 80.1051 Scope.
- 80.1053 Special requirements for Class A EPIRB stations.
- 80.1055 Special requirements for Class B EPIRB stations.
- 80.1057 [Reserved]
- 80.1059 Special requirements for Class S EPIRB stations.
- 80.1061 Special requirements for 406.0-406.1 MHz EPIRB stations.

**Subpart W—Global Maritime Distress and
Safety System (GMDSS)**

GENERAL PROVISIONS

- 80.1065 Applicability.
- 80.1067 Inspection of station.
- 80.1069 Maritime sea areas.
- 80.1071 Exemptions.
- 80.1073 Radio operator requirements for ship stations.
- 80.1074 Radio maintenance personnel for at-sea maintenance.
- 80.1075 Radio records.
- 80.1077 Frequencies.

EQUIPMENT REQUIREMENTS FOR SHIP STATIONS

- 80.1081 Functional requirements.
- 80.1083 Ship radio installations.
- 80.1085 Ship radio equipment—General.
- 80.1087 Ship radio equipment—Sea area A1.
- 80.1089 Ship radio equipment—Sea areas A1 and A2.
- 80.1091 Ship radio equipment—Sea areas A1, A2, and A3.
- 80.1093 Ship radio equipment—Sea areas A1, A2, A3, and A4.
- 80.1095 Survival craft equipment.
- 80.1099 Ship sources of energy.
- 80.1101 Performance standards.
- 80.1103 Equipment authorization.
- 80.1105 Maintenance requirements.

OPERATING PROCEDURES FOR DISTRESS AND
SAFETY COMMUNICATIONS

- 80.1109 Distress, urgency, and safety communications.
- 80.1111 Distress alerting.
- 80.1113 Transmission of a distress alert.
- 80.1114 False distress alerts.
- 80.1115 Transmission of a distress alert by a station not itself in distress.
- 80.1117 Procedure for receipt and acknowledgement of distress alerts.
- 80.1119 Receipt and acknowledgement of distress alerts by coast stations and coast earth stations.
- 80.1121 Receipt and acknowledgement of distress alerts by ship stations and ship earth stations.
- 80.1123 Watch requirements for ship stations.
- 80.1125 Search and rescue coordinating communications.
- 80.1127 On-scene communications.
- 80.1129 Locating and homing signals.
- 80.1131 Transmissions of urgency communications.
- 80.1133 Transmissions of safety communications.
- 80.1135 Transmission of maritime safety information.

Subpart X—Voluntary Radio Installations

GENERAL

- 80.1151 Voluntary radio operations.

§ 80.1

47 CFR Ch. I (10–1–04 Edition)

80.1153 Station log and radio watches.

VOLUNTARY TELEGRAPHY

80.1155 Radioprinter.

80.1157 Facsimile.

80.1159 Narrow-band direct-printing (NB-DP).

80.1161 Emergency position indicating radiobeacon (EPIRB).

VOLUNTARY TELEPHONY

80.1165 Assignment and use of frequencies.

80.1169 [Reserved]

80.1171 Assignment and use of frequencies.

ON-BOARD COMMUNICATIONS

80.1175 Scope of communications of on-board stations.

80.1177 Assignment and use of frequencies.

80.1179 On-board repeater limitations.

80.1181 Station identification.

80.1183 Remote control for maneuvering or navigation.

MOBILE-SATELLITE STATIONS

80.1185 Supplemental eligibility for mobile-satellite stations.

80.1187 Scope of communication.

80.1189 Portable ship earth stations.

RADIODETERMINATION

80.1201 Special provisions for cable-repair ship stations.

Subpart Y—Competitive Bidding Procedures

80.1251 Maritime communications services subject to competitive bidding.

80.1252 Designated entities.

AUTHORITY: Secs. 4, 303, 307(e), 309, and 332, 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303, 307(e), 309, and 332, unless otherwise noted. Interpret or apply 48 Stat. 1064–1068, 1081–1105, as amended; 47 U.S.C. 151–155, 301–609; 3 UST 3450, 3 UST 4726, 12 UST 2377.

SOURCE: 51 FR 31213, Sept. 2, 1986, unless otherwise noted.

Subpart A—General Information

GENERAL

§ 80.1 Basis and purpose.

This section contains the statutory basis for this part of the rules and provides the purpose for which this part is issued.

(a) *Basis.* The rules for the maritime services in this part are promulgated under the provisions of the Communications Act of 1934, as amended, which vests authority in the Federal

Communications Commission to regulate radio transmission and to issue licenses for radio stations. The rules in this part are in accordance with applicable statutes, international treaties, agreements and recommendations to which the United States is a party. The most significant of these documents are listed below with the short title appearing in parenthesis:

Communications Act of 1934, as amended—(Communications Act).

Communications Satellite Act of 1962, as amended—(Communications Satellite Act).

International Telecommunication Union Radio Regulations, in force for the United States—(Radio Regulations).

Agreement Between the United States of America and Canada for the Promotion of Safety on the Great Lakes by Means of Radio, as amended, and the Technical Regulations annexed thereto—(Great Lakes Radio Agreement).

International Convention for Safety of Life at Sea, 1974, as amended, and the Annex thereto—(Safety Convention).

Vessel Bridge-to-Bridge Radiotelephone Act—(Bridge-to-Bridge Act).

(b) *Purpose.* This part states the conditions under which radio may be licensed and used in the maritime services. These rules do not govern radio stations operated by agencies of the U.S. Government.

§ 80.2 Other regulations that apply.

The Commandant, U.S. Coast Guard has promulgated regulations which affect radiotelecommunication equipment carriage and power source installation requirements for certain ships. Inquiries concerning applicable U.S. Coast Guard regulations are to addressed to the Commandant, U.S. Coast Guard, Washington, DC 20593, or to the nearest District Headquarters Office of the U.S. Coast Guard.

§ 80.3 Other applicable rule parts of this chapter.

Other FCC rule parts applicable to licensees in the maritime services include the following:

(a) *Part 0.* This part describes the Commission's organization and delegations of authority. Part 0 also lists available Commission publications, standards and procedures for access to Commission records and location on Commission monitoring stations.