

456-460 MHz

1. Band Introduction

The use of the 456-460 MHz band is allocated primarily for non-Federal use to the land mobile radio service. The Federal agencies use this band for land mobile communication systems that are shared with State and local public safety partnering agencies for mutual aid responses such as fire fighting, emergency response, and law enforcement operations. Federal agency use of the band is subject to mutual agreement and coordination with non-Federal users.

2. Allocations

2a. Allocation Table

The frequency allocation table shown below is extracted from the NTIA Manual of Regulations and Procedures for Federal Radio Frequency Management, Chapter 4 – Allocations, Allotments and Plans.

Table of Frequency Allocations

United States Table

| Federal Table | Non-Federal Table | FCC Rule Part(s) |
|------------------|---|---|
| 456-460 | 456-460 FIXED LAND MOBILE | Public Mobile (22) Maritime (80) Private Land Mobile (90) |
| 5.287 US64 US288 | 5.287 US64 US288 NG 32 NG 112 NG124 NG 148 | MedRadio (95I) |

2b. Additional Allocation Table Information

5.287 In the maritime mobile service, the frequencies 457.525 MHz, 457.550 MHz, 457.575 MHz, 467.525 MHz, 467.550 MHz and 467.575 MHz may be used by on-board communication stations. Where needed, equipment designed for 12.5 kHz channel spacing using also the additional frequencies 457.5375 MHz, 457.5625 MHz, 467.5375 MHz and 467.5625 MHz may be introduced for on-board communications. The use of these frequencies in territorial waters may be subject to the national regulations of the administration concerned. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174-2. (WRC-07)

US64 (a) In the band 401-406 MHz, the mobile, except aeronautical mobile, service is allocated on a secondary *May 2013 Edition 4-123 United States (US) Footnotes* basis and is limited to, with the

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exception of military tactical mobile stations, Medical Device Radiocommunication Service (MedRadio) operations. MedRadio stations are authorized by rule on the condition that harmful interference is not caused to stations in the meteorological aids, meteorological-satellite, and Earth exploration-satellite services, and that MedRadio stations accept interference from stations in the meteorological aids, meteorological-satellite, and Earth exploration-satellite services.

(b) The bands 413-419 MHz, 426-432 MHz, 438-444 MHz, and 451-457 MHz are also allocated on a secondary basis to the mobile, except aeronautical mobile, service. The use of this allocation is limited to MedRadio operations. MedRadio stations are authorized by rule and operate in accordance with 47 CFR Part 95.

US288 In the territorial waters of the United States, the preferred frequencies for use by on-board communication stations shall be 457.525 MHz, 457.550 MHz, 457.575 MHz and 457.600 MHz paired, respectively, with 467.750 MHz, 467.775 MHz, 467.800 MHz and 467.825 MHz. Where needed, equipment designed for 12.5 kHz channel spacing using also the additional frequencies 457.5375 MHz, 457.5625 MHz, 467.5375 MHz and 467.5625 MHz may be introduced for on-board communications. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174-2.

NG32 Frequencies in the bands 454.6625-454.9875 MHz and 459.6625-459.9875 MHz may be assigned to domestic public land and mobile stations to provide a two-way air-ground public radiotelephone service.

NG112 The frequencies 25.04, 25.08, 150.980, 154.585, 158.445, 159.480, 454.000 and 459.000 MHz may be authorized to stations in the Industrial/Business Pool for use primarily in oil spill containment and cleanup operations and secondarily in regular land mobile communications.

NG124 In the bands 30.85-34, 37-38, 39-40, 42-47.41, 150.995-156.25, 158.715-159.465, 453.0125-453.9875, 458.0125-458.9875, 460.0125-465.6375, and 467.9375-467.9875 MHz, police licensees are authorized to operate low power transmitters on a secondary basis in accordance with the provisions of 47 CFR 2.803 and 90.20(e)(5).

NG148 The frequencies 154.585 MHz, 159.480 MHz, 160.725 MHz, 160.785 MHz, 454.000 MHz and 459.000 MHz may be authorized to maritime mobile stations for offshore radio-location and associated telecommand operations.

3. Federal Agency Use

3a. Federal Agency Frequency Assignments Table

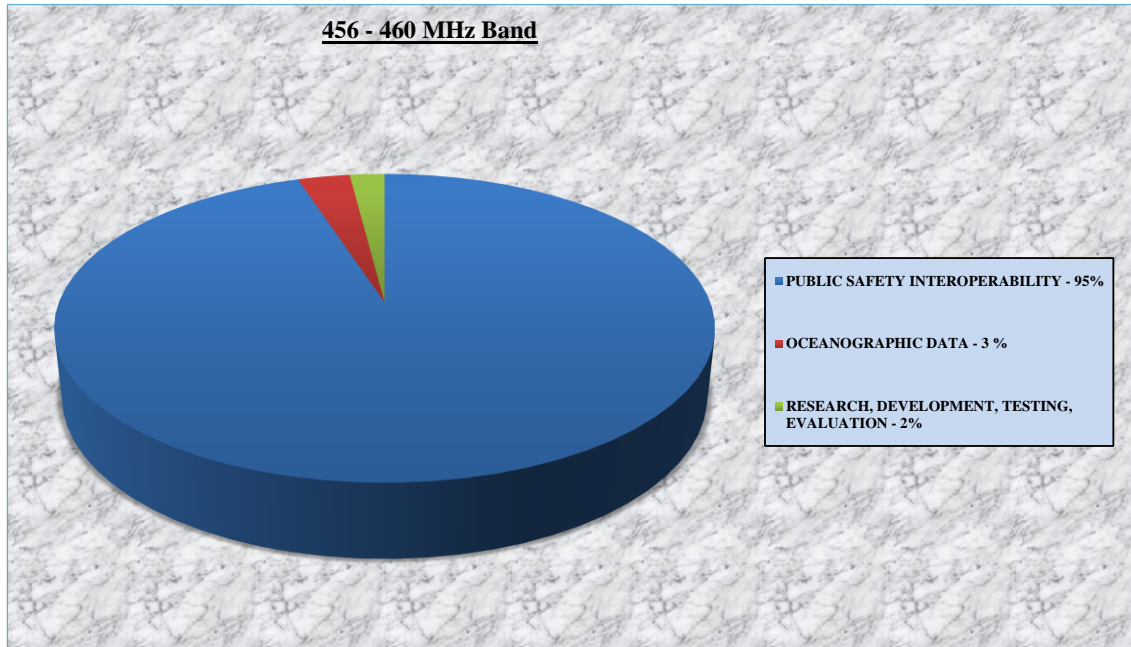
The following table identifies the frequency band, type(s) of allocation(s), types of application, and the number of frequency assignments by agency.

Federal Frequency Assignment Table

| 456-460 MHz Band | | | | |
|---|-----------------------------------|-----------------------------|--|------------|
| NON-FEDERAL EXCLUSIVE BAND | | | | |
| AGENCY | FIXED LAND MOBILE | | | |
| | PUBLIC SAFETY INTEROPERABILITY | OCEANOGRAPHIC OPERATIONS | RESEARCH DEVELOPMENT TESTING EVALUATION | TOTAL |
| A | 44 | | | 44 |
| AR | 45 | | | 45 |
| CT | 5 | | | 5 |
| DHS | 12 | | | 12 |
| DOC | | 4 | | 4 |
| DOE | 19 | | | 19 |
| DOI | 30 | | | 30 |
| DOJ | 65 | | | 65 |
| FAA | 8 | | | 8 |
| N | 2 | | 1 | 3 |
| NASA | 15 | | | 15 |
| VA | 1 | | | 1 |
| TOTAL | 246 | 4 | 1 | 251 |
| The number of actual systems, or number of equipments, may exceed and sometimes far exceed, the number of frequency assignments in a band. Also, a frequency assignment may represent, a local, state, regional, or nationwide authorization. Therefore, care must be taken in evaluating bands strictly on the basis of assignment counts or percentages of assignments. | | | | |

3b. Percentage of Frequency Assignments Chart

The following chart displays the percentage of assignments in the Government Master File for the Federal Government applications listed in the chart below for the frequency band 456-460 MHz.



4. Frequency Band Analysis By Application

4a. Public Safety Interoperability

Most of the Federal frequency assignments in the 445-460 MHz band are for land mobile systems used for public safety interoperable communications between Federal, State and local public safety entities. Federal agencies work in conjunction with State, local, tribal public safety and law enforcement to respond in the case of extraordinary natural and man-made disasters, and fulfill unmet public safety needs in carrying out their primary duties. These operations occur in locations where the non-Federal partners are already operating. Federal agencies that operate systems in this band include, but are not limited to, the Departments of Agriculture, Homeland Security, Justice, Energy, and Interior. Federal agency use of this band is subject to coordination and cooperation (e.g., through a Memorandum of Understanding) with State and local partners.

5. Planned Use

With the need for better coordination efforts between all levels of government, increased emphasis on homeland and border security protection, and a more effective and efficient response and recovery, Federal agency use of this band — in coordination and cooperation with State and local partners — is expected to continue for the foreseeable future.

The use of mobile telecommand by the Federal Reserve, Energy, and Navy is expected to continue.