

Federal Communications Commission

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§ 90.15 Scope.

The Public Safety Radio Pool covers the licensing of the radio communications of governmental entities and the following category of activities: Medical services, rescue organizations, veterinarians, persons with disabilities, disaster relief organizations, school buses, beach patrols, establishments in isolated places, communications standby facilities, and emergency repair of public communications facilities. Entities not meeting these eligibility criteria may also be licensed in the Public Safety Radio Pool solely to provide service to eligibles on one-way paging-only frequencies below 800 MHz, *i.e.*, those frequencies with the assignment limitations appearing at § 90.20(d)(13) or (d)(60). Private carrier systems licensed on other channels prior to June 1, 1990, may continue to provide radio communications service to eligibles. Rules as to eligibility for licensing, frequencies available, permissible communications and classes and number of stations, and any special requirements are set forth in the following sections.

§ 90.16 Public Safety National Plan.

The Commission has established a National Plan which specifies special policies and procedures governing the Public Safety Pool (formally Public Safety Radio Services and the Special Emergency Radio Service). The National Plan is contained in the Report and Order in General Docket No. 87-112. The principal spectrum resource for the National Plan is the 806-809 MHz and the 851-854 MHz bands at locations farther than 110 km (68.4 miles) from the U.S./Mexico border and 140 km (87 miles) from the U.S./Canadian border ("border regions"). In the border regions, the principal spectrum for the National Plan may be different. The National plan establishes planning regions covering all parts of the United States, Puerto Rico, and the U.S. Virgin Islands. No assignments will be made in the spectrum designated for the National Plan until a regional plan for the area has been accepted by the Commission.

[69 FR 67837, Nov. 22, 2004]

§ 90.19 Nationwide Public Safety Broadband Network.

Pursuant to the Middle Class Tax Relief and Job Creation Act of 2012, Public Law 112-96, 126 Stat. 156 (2012), the 758-769 MHz and 788-799 MHz bands are allocated for use by the First Responder Network Authority to deploy a nationwide public safety broadband network as prescribed by statute.

[77 FR 62462, Oct. 15, 2012]

§ 90.20 Public Safety Pool.

(a) *Eligibility.* The following are eligible to hold authorizations in the Public Safety Pool.

(1) Any territory, possession, state, city, county, town or similar governmental entity is eligible to hold authorizations in the Public Safety Pool to operate radio stations for transmission of communications essential to official activities of the licensee, including:

- (i) A district and an authority;
- (ii) A governmental institution authorized by law to provide its own police protection;
- (iii) Persons or entities engaged in the provision of basic or advanced life support services on an ongoing basis are eligible to hold authorization to operate stations for transmission of communications essential for the delivery or rendition of emergency medical services for the provision of basic or advanced life support. Applications submitted by persons or organizations (governmental or otherwise) other than the governmental body having jurisdiction over the state's emergency medical service plans must be accompanied by a statement prepared by the governmental body having jurisdiction over the state's emergency medical services plan indicating that the applicant is included in the state's emergency plan or otherwise supporting the application;
- (iv) Governmental entities and governmental agencies for their own medical activities; and
- (v) Governmental entities and governmental agencies for providing medical services communications to other

eligible persons through direct participation in and direct operational control of the system, such as through central dispatch service.

(2) Persons or organizations other than governmental entities are eligible to hold authorizations in the Public Safety Pool to operate radio stations for transmission of communications, as listed below. When requesting frequencies not designated by a “PS” in the coordinator column of the frequency table in paragraph (c)(3) of this section, applications must be accompanied by a statement from the governmental entity having legal jurisdiction over the area to be served, supporting the request:

(i) Persons or organizations charged with specific fire protection activities;

(ii) Persons or organizations charged with specific forestry-conservation activities;

(iii) Persons or organizations, listed below, engaged in the delivery or rendition of medical services to the public and on a secondary basis, for transmission of messages related to the efficient administration of organizations and facilities engaged in medical services operations:

(A) Hospital establishments that offer services, facilities, and beds for use beyond 24 hours in rendering medical treatment;

(B) Institutions and organizations regularly engaged in providing medical services through clinics, public health facilities, and similar establishments;

(C) Ambulance companies regularly engaged in providing medical ambulance services;

(D) Rescue organizations for the limited purpose of participation in providing medical services;

(E) Associations comprised of two or more of the organizations eligible under paragraph (a)(2)(iii) (A), (B), (C), and (D) of this section, for the purpose of active participation in and direct operational control of the medical services communication activities of such organizations; or

(F) Physicians, schools of medicine, oral surgeons, and associations of physicians or oral surgeons;

(iv) Persons or organizations operating a rescue squad for transmission of messages pertaining to the safety of

life or property and urgent messages necessary for the rendition of an efficient emergency rescue service.

(A) Each rescue squad will normally be authorized to operate one base station, and a number of mobile units (excluding hand carried mobile units) not exceeding the number of vehicles actually used in emergency rescue operations.

(B) In addition, each rescue squad will be authorized to operate a number of hand carried mobile units not exceeding two such units for each radio equipped vehicle actually used in emergency rescue operations.

(v) *Persons with disabilities.* The initial application from a person claiming eligibility under this paragraph shall be accompanied by a statement from a physician attesting to the condition of the applicant or the applicant's child (or ward in case of guardianship).

(A) Any person having a hearing deficiency such that average hearing threshold levels are 90 dB above ANSI (American National Standards Institute) 1969 or ISO (International Standards Organization) 1964 levels and such other persons who submit medical certification of similar hearing deficiency.

(B) Any person having visual acuity corrected to no better than 20/200 in the better eye or having a field of vision of less than 20 degrees.

(C) Any person, who, through loss of limbs or motor function, is confined to a wheelchair, or is non-ambulatory.

(D) Any person actively awaiting an organ transplant.

(E) Parents or guardians of persons under 18 years eligible under paragraphs (a)(2)(v)(A), (a)(2)(v)(B), (a)(2)(v)(C) of this section, or institutions devoted to the care or training of those persons.

(vi) A veterinarian, veterinary clinic, or a school of veterinary medicine for the transmission of messages pertaining to the care and treatment of animals. Each licensee may be authorized to operate one base station and two mobile units. Additional base stations or mobile units will be authorized only on a showing of need.

(vii) Organizations established for disaster relief purposes having an emergency radio communications plan

for the transmission of communications relating to the safety of life or property, the establishment and maintenance of temporary relief facilities, and the alleviation of the emergency situation during periods of actual or impending emergency, or disaster, and until substantially normal conditions are restored. In addition, the stations may be used for training exercises, incidental to the emergency communications plan, and for operational communications of the disaster relief organization or its chapter affiliates. The initial application from a disaster relief organization shall be accompanied by a copy of the charter or other authority under which the organization was established and a copy of its communications plan. The plan shall fully describe the operation of the radio facilities and describe the method of integration into other communications facilities which normally would be available to assist in the alleviation of the emergency condition.

(viii) Persons or organizations operating school buses on a regular basis over regular routes for the transmission of messages pertaining to either the efficient operation of the school bus service or the safety or general welfare of the students they are engaged in transporting. Each school bus operator may be authorized to operate one base station and a number of mobile units not in excess of the total of the number of buses and maintenance vehicles regularly engaged in the school bus operation. Additional base stations or mobile units will be authorized only in exceptional circumstances when the applicant can show a specific need.

(ix) Persons or organizations operating beach patrols having responsibility for life-saving activities for the transmission of messages required for the safety of life or property.

(x) Persons or organizations maintaining establishment in isolated areas where public communications facilities are not available and where the use of radio is the only feasible means of establishing communication with a center of population, or other point from which emergency assistance might be obtained if needed, for the transmission of messages only during an ac-

tual or impending emergency endangering life, health or property for the transmission of essential communications arising from the emergency. The transmission of routine or non-emergency communications is strictly prohibited.

(A) *Special eligibility showing.* The initial application requesting a station authorization for an establishment in an isolated area shall be accompanied by a statement describing the status of public communication facilities in the area of the applicant's establishment; the results of any attempts the applicant may have made to obtain public communication service, and; in the event radio communications service is to be furnished under paragraph (a)(2)(x)(C)(2) of this section, a copy of the agreement involved must be submitted.

(B) *Class and number of stations available.* Persons or organizations in this category may be authorized to operate not more than one fixed station at any isolated establishment and not more than one fixed station in a center of population.

(C) *Communication service rendered and received.* (1) The licensee of a station at any establishment in an isolated area shall make the communication facilities of such station available at no charge to any person desiring the transmission of any communication permitted by paragraph (a) of this section.

(2) For the purpose of providing the communications link desired the licensee of a station at an establishment in an isolated area either may be the licensee of a similar station at another location or may obtain communication service under a mutual agreement from the licensee of any station in the Public Safety Pool or any other station which is authorized to communicate with the fixed station.

(xi) A communications common carrier operating communications circuits that normally carry essential communication of such a nature that their disruption would endanger life or public property is eligible to hold authorizations for standby radio facilities for the transmission of messages only during periods when the normal circuits are inoperative due to circumstances

beyond the control of the user. During such periods the radio facilities may be used to transmit any communication which would be carried by the regular circuit. Initial applications for authorization to operate a standby radio facility must include a statement describing radio communication facilities desired, the proposed method of operation, a description of the messages normally being carried, and an explanation of how their disruption will endanger life or public property.

(xii) Communications common carriers for radio facilities to be used in effecting expeditious repairs to interruption of public communications facilities where such interruptions have resulted in disabling intercity circuits or service to a multiplicity of subscribers in a general area. Stations authorized under this section may be used only when no other means of communication is readily available, for the transmission of messages relating to the safety of life and property and messages which are necessary for the efficient restoration of the public communication facilities which have been disrupted.

(xiii) Persons or entities engaged in the provision of basic or advanced life support services on an ongoing basis are eligible to hold authorization to operate stations for transmission of communications essential for the delivery or rendition of emergency medical services for the provision of basic or advanced life support. Applications submitted by persons or organizations (governmental or otherwise) other than the governmental body having jurisdiction over the state's emergency medical service plans must be accompanied by a statement prepared by the governmental body having jurisdiction over the state's emergency medical services plan indicating that the applicant is included in the state's emergency plan or otherwise supporting the application.

(xiv)(A) Railroad police officers are a class of users eligible to operate on the nationwide interoperability and mutual aid channels listed in 90.20(i) provided their employer holds a Private Land Mobile Radio (PLMR) license of any radio category, including Industrial/Business (I/B). Eligible users in-

clude full and part time railroad police officers, Amtrak employees who qualify as railroad police officers under this subsection, Alaska Railroad employees who qualify as railroad police officers under this subsection, freight railroad employees who qualify as railroad police officers under this subsection, and passenger transit lines police officers who qualify as railroad police officers under this subsection. Railroads and railroad police departments may obtain licenses for the nationwide interoperability and mutual aid channels on behalf of railroad police officers in their employ. Employers of railroad police officers must obtain concurrence from the relevant state interoperability coordinator or regional planning committee before applying for a license to the Federal Communications Commission or operating on the interoperability and mutual aid channels.

(1) Railroad police officer means a peace officer who is commissioned in his or her state of legal residence or state of primary employment and employed, full or part time, by a railroad to enforce state laws for the protection of railroad property, personnel, passengers, and/or cargo.

(2) Commissioned means that a state official has certified or otherwise designated a railroad employee as qualified under the licensing requirements of that state to act as a railroad police officer in that state.

(3) Property means rights-of-way, easements, appurtenant property, equipment, cargo, facilities, and buildings and other structures owned, leased, operated, maintained, or transported by a railroad.

(4) Railroad means each class of freight railroad (*i.e.* Class I, II, III); Amtrak, Alaska Railroad, commuter railroads and passenger transit lines.

(5) The word state, as used herein, encompasses states, territories and the District of Columbia.

(B) Eligibility for licensing on the 700 MHz narrowband interoperability channels is restricted to entities that have as their sole or principal purpose the provision of public safety services.

(b) *International police radio-communication.* Police licensees which are located in close proximity to the borders of the United States may be

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authorized to communicate internationally. Request for such authority shall be written and signed and submitted in duplicate. The request shall include information as to the station with which communication will be conducted, and the frequency, power, emission, etc., that will be used. If authorized, such international communication must be conducted in accordance with Article 5 of the Inter-American Radio Agreement, Washington, DC, 1949, which reads as follows:

Article 5. *Police radio stations.* When the American countries authorize their police radio stations to exchange emergency information by radio with similar stations of another country, the following rules shall be applied.

(a) Only police radio stations located close to the boundaries of contiguous countries shall be allowed to exchange this information.

(b) In general, only important police messages shall be handled, such as those which would lose their value, because of slowness and time limitations if sent on other communication systems.

(c) Frequencies used for radiotelephone communications with mobile police units shall not be used for radiotelegraph communications.

(d) Radiotelephone communications shall be conducted only on frequencies assigned for radiotelephony.

(e) Radiotelegraph communications shall be conducted on the following frequencies: 2804 kHz calling, 2808 kHz working, 2812 kHz working, 5195 kHz day calling, 5185 kHz day working, 5140 kHz day working.

(f) The characteristics of police radio stations authorized to exchange information shall be notified to the International Telecommunication Union, Geneva, Switzerland.

(g) The abbreviations contained in Appendix 9 of the Atlantic City Radio Regulations shall be used to the greatest possible extent. Service indications are as follows: "P", priority, for messages that are to be sent immediately, regardless of the number of other messages on file. If no service indication is given, the messages are to be transmitted in the order of receipt.

(h) The message shall contain the preamble, address, text and signature, as follows:

Preamble. The preamble of the message shall consist of the following: The serial number preceded by the letters "NR", service indications, as appropriate; the group count according to standard cable count system; the letters "CK", followed by numerals indicating the number of words contained in the text of the message: Office and country

of origin (not abbreviations): Day, month, and hour of filing;

Address. The address must be as complete as possible and shall include the name of the addressee with any supplementary particulars necessary for immediate delivery of the message;

Text. The text may be either in plain language or code;

Signature. The signature shall include the name and title of the person originating the message.

(c) *Public Safety frequencies.* (1) The following table indicates frequencies available for assignment to Public Safety stations, together with the class of station(s) to which they are normally assigned, the specific assignment limitations which are explained in paragraph (d) of this section, and the certified frequency coordinator for each frequency:

(2)(i) The letter symbol(s) listed in the Coordinator column of the frequency table in paragraph (c)(3) of this section specifies the frequency coordinator(s) for each frequency as follows:

PF—Fire Coordinator
PH—Highway Maintenance Coordinator
PM—Emergency Medical Coordinator
PO—Forestry-Conservation Coordinator
PP—Police Coordinator
PS—Special Emergency Coordinator
PX—Any Public Safety Coordinator, except the Special Emergency Coordinator

(ii) Frequencies without any coordinator specified may be coordinated by any coordinator certified in the Public Safety Pool.

(3) Frequencies.

PUBLIC SAFETY POOL FREQUENCY TABLE

Frequency or band	Class of station(s)	Limitations	Coordinator
Kilohertz			
530 to 1700	Base (T.I.S.)	1	PX
1610	Base (T.I.S.)	1	PX
1722	do	2, 3	PP
1730	do	2, 3	PP
2212	do	4	PO
2226	do	4	PO
2236	do	4	PO
2244	do	4	PO
2366	do	2, 4	PP
2382	do	2	PP
2390	do	2, 4	PP
2406	do	2	PP
2430	do	2	PP
2442	do	2	PP
2450	do	2	PP
2458	do	2	PP
2482	do	2	PP
2490	do	2, 3	PP

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
2726	do	5	PX, PS
3201	do .....	.....	PS
2000 to 3000 ...	Fixed	75	PS
2000 to 10,000	Fixed, base, or mobile.	6, 89	PX.
Megahertz			
30.86	Base or mobile	7	PO
30.90	do	7	PO
30.94	do	7	PO
30.98	do	7	PO
31.02	do	7	PO
31.06	do	7, 8, 9	PO
31.10	do	7, 8, 9	PO
31.14	do	7, 8, 9	PO
31.18	do	8, 9	PO
31.22	do	8, 9	PO
31.26	do	8, 9	PO
31.30	do	8, 9	PO
31.34	do	8, 9	PO
31.38	do	8, 9	PO
31.42	do	8, 9	PO
31.46	do	8, 9	PO
31.50	do	8, 9	PO
31.54	do	8, 9	PO
31.58	do	8, 9	PO
31.62	do	8, 9	PO
31.66	do	8, 9	PO
31.70	do	8, 9	PO
31.74	do	8, 9	PO
31.78	do	8, 9	PO
31.82	do	8, 9	PO
31.86	do	8, 9	PO
31.90	do	8, 9	PO
31.94	do	8, 9	PO
31.98	do	8, 9	PO
33.02	do	10	PH, PS
33.04	do .....	.....	PS
33.06	do	10	PH, PS
33.08	do .....	.....	PS
33.10	do	10	PH, PS
33.42	Mobile or fixed	11	PF
33.44	Base or mobile	.....	PF
33.46	Mobile .....	.....	PF
33.48	Base or mobile	.....	PF
33.50	Mobile .....	.....	PF
33.52	Base or mobile	.....	PF
33.54	Mobile .....	.....	PF
33.56	Base or mobile	.....	PF
33.58	Mobile .....	.....	PF
33.60	Base or mobile	.....	PF
33.62	Mobile .....	.....	PF
33.64	Base or mobile	.....	PF
33.66	Mobile .....	.....	PF
33.68	Base or mobile	.....	PF
33.70	do .....	.....	PF
33.72	do .....	.....	PF
33.74	do .....	.....	PF
33.76	do .....	.....	PF
33.78	do .....	.....	PF
33.80	do .....	.....	PF
33.82	do .....	.....	PF
33.84	do .....	.....	PF
33.86	do .....	.....	PF
33.88	do .....	.....	PF
33.90	do .....	.....	PF
33.92	do .....	.....	PF
33.94	do .....	.....	PF
33.96	do .....	.....	PF
33.98	do .....	.....	PF

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
35.02	Mobile	12, 78	PS
35.64	Base	13	PS
35.68	do	13	PS
37.02	Mobile .....	.....	PP
37.04	Base or mobile	.....	PP
37.06	do .....	.....	PP
37.08	do .....	.....	PP
37.10	do .....	.....	PX
37.12	do .....	.....	PP
37.14	do .....	.....	PP
37.16	do .....	.....	PP
37.18	do .....	.....	PX
37.20	do .....	.....	PP
37.22	do .....	.....	PP
37.24	do .....	.....	PP
37.26	do .....	.....	PX
37.28	do .....	.....	PP
37.30	do .....	.....	PP
37.32	do .....	.....	PP
37.34	Mobile .....	.....	PP
37.36	Base or mobile	.....	PP
37.38	Mobile .....	.....	PP
37.40	Base or mobile	.....	PP
37.42	Mobile .....	.....	PP
37.90	Base or mobile	10	PH, PS
37.92	do .....	.....	PH
37.94	do	10	PH, PS
37.96	do .....	.....	PH
37.98	do	10	PH, PS
39.02	do .....	.....	PP
39.04	do .....	.....	PP
39.06	do	14	PX
39.08	do .....	.....	PP
39.10	do .....	.....	PX
39.12	do .....	.....	PP
39.14	do .....	.....	PP
39.16	do .....	.....	PP
39.18	do .....	.....	PX
39.20	do .....	.....	PP
39.22	do .....	.....	PP
39.24	do .....	.....	PP
39.26	Mobile .....	.....	PP
39.28	Base or mobile	.....	PP
39.30	Mobile .....	.....	PP
39.32	Base or mobile	.....	PP
39.34	Mobile .....	.....	PP
39.36	Base or mobile	.....	PP
39.38	Mobile .....	.....	PP
39.40	Base or mobile	.....	PP
39.42	do .....	.....	PP
39.44	do .....	.....	PP
39.46	do	15	PP
39.48	do .....	.....	PP
39.50	do .....	.....	PX
39.52	do .....	.....	PP
39.54	do .....	.....	PP
39.56	do .....	.....	PP
39.58	do .....	.....	PX
39.60	do .....	.....	PP
39.62	do .....	.....	PP
39.64	do .....	.....	PP
39.66	Mobile .....	.....	PP
39.68	Base or mobile	.....	PP
39.70	Mobile .....	.....	PP
39.72	Base or mobile	.....	PP
39.74	Mobile		PP
39.76	Base or mobile		PP
39.78	Mobile		PP
39.80	Base or mobile		PP
39.82	do		PX

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PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
39.84	do .....	.....	PP
39.86	do .....	.....	PP
39.88	do .....	.....	PP
39.90	do .....	.....	PX
39.92	do .....	.....	PP
39.94	do .....	.....	PP
39.96	do .....	.....	PP
39.98	do .....	.....	PX
42.02	do	2, 3, 16	PP
42.04	do	2, 3, 16	PP
42.06	do	2, 3, 16	PP
42.08	do	2, 3, 16	PP
42.10	do	2, 3, 16	PP
42.12	do	2, 3, 16	PP
42.14	do	2, 3, 16	PP
42.16	do	2, 3, 16	PP
42.18	Mobile	2, 16	PP
42.20	do	2, 16	PP
42.22	do	2, 16	PP
42.24	do	2, 16	PP
42.26	do	2, 16	PP
42.28	do	2, 16	PP
42.30	do	2, 16	PP
42.32	Base or mobile	2, 3, 16	PP
42.34	do	2, 3, 16	PP
42.36	do	2, 3, 16	PP
42.38	do	2, 3, 16	PP
42.40	do	2, 3, 16, 17.	PP
42.42	do	2, 3, 16	PP
42.44	do	2, 3, 16	PP
42.46	do	2, 3, 16	PP
42.48	do	2, 3, 16	PP
42.50	do	2, 3, 16	PP
42.52	do	2, 3, 16	PP
42.54	do	2, 3, 16	PP
42.56	do	2, 3, 16	PP
42.58	do	2, 3, 16	PP
42.60	do	2, 3, 16	PP
42.62	do	2, 3, 16	PP
42.64	do	2, 3, 16	PP
42.66	Mobile	2, 16	PP
42.68	do	2, 16	PP
42.70	do	2, 16	PP
42.72	do	2, 16	PP
42.74	do	2, 16	PP
42.76	do	2, 16	PP
42.78	do	2, 16	PP
42.80	Base or mobile	13	PP
42.82	do	2, 3, 16	PP
42.84	do	2, 3, 16	PP
42.86	do	2, 3, 16	PP
42.88	do	2, 3, 16	PP
42.90	do	2, 3, 16	PP
42.92	do	2, 3, 16	PP
42.94	do	2, 3, 16	PP
43.64	Base	13, 18	PS
43.68	do	13	PS
44.62	Base or mobile	2, 3, 16	PP
44.64	do .....	.....	PO
44.66	do	2, 3, 16	PP
44.68	do .....	.....	PO
44.70	do	2, 3, 16	PP
44.72	do .....	.....	PO
44.74	do	2, 3, 16	PP
44.76	do .....	.....	PO
44.78	Mobile	2, 16	PP
44.80	Base or mobile	.....	PO
44.82	Mobile	2, 16	PP
44.84	Base or mobile	.....	PO

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
44.86	Mobile	2, 16	PP
44.88	Base or mobile	.....	PO
44.90	Mobile	2, 16	PP
44.92	Base or mobile	.....	PO
44.94	do	2, 3, 16	PP
44.96	do .....	.....	PO
44.98	do	2, 3, 16	PP
45.00	do .....	.....	PO
45.02	do	2, 3, 16	PP
45.04	do .....	.....	PO
45.06	do	2, 3, 16	PP
45.08	do .....	.....	PX
45.10	do .....	.....	PP
45.12	do .....	.....	PX
45.14	do .....	.....	PP
45.16	do .....	.....	PX
45.18	do .....	.....	PP
45.20	do .....	.....	PX
45.22	do .....	.....	PP
45.24	do .....	.....	PX
45.26	Mobile .....	.....	PP
45.28	Base or mobile	.....	PX
45.30	Mobile .....	.....	PP
45.32	Base or mobile	.....	PX
45.34	Mobile .....	.....	PP
45.36	Base or mobile	.....	PX
45.38	Mobile .....	.....	PP
45.40	Base or mobile	.....	PX
45.42	do .....	.....	PP
45.44	do .....	.....	PX
45.46	do .....	.....	PP
45.48	do .....	.....	PX
45.50	do .....	.....	PP
45.52	do .....	.....	PX
45.54	do .....	.....	PP
45.56	do .....	.....	PX
45.58	do .....	.....	PP
45.60	do .....	.....	PX
45.62	do .....	.....	PP
45.64	do .....	.....	PX
45.66	do .....	.....	PP
45.68	do .....	.....	PH
45.70	do .....	.....	PP
45.72	do .....	.....	PH
45.74	Mobile .....	.....	PP
45.76	Base or mobile	.....	PH
45.78	Mobile .....	.....	PP
45.80	Base or mobile	.....	PH
45.82	Mobile .....	.....	PP
45.84	Base or mobile	.....	PH
45.86	do	15	PP
45.88	do	19	PF
45.90	do	20	PP
45.92	do	10	PS
45.94	do .....	.....	PP
45.96	do	10	PS
45.98	do .....	.....	PP
46.00	do	10	PS
46.02	do .....	.....	PP
46.04	do	10	PS
46.06	do .....	.....	PF
46.08	do .....	.....	PF
46.10	do .....	.....	PF
46.12	do		PF
46.14	do		PF
46.16	do		PF
46.18	do		PF
46.20	do		PF
46.22	Mobile		PF
46.24	do		PF

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Frequency or band	Class of station(s)	Limitations	Coordinator
46.26	do		PF
46.28	do		PF
46.30	Mobile or fixed	11	PF
46.32	Mobile .....	.....	PF
46.34	do .....	.....	PF
46.36	Base or mobile	.....	PF
46.38	do .....	.....	PF
46.40	do .....	.....	PF
46.42	do .....	.....	PF
46.44	do .....	.....	PF
46.46	do .....	.....	PF
46.48	do .....	.....	PF
46.50	do .....	.....	PF
46.52	do .....	.....	PX
46.54	do .....	.....	PX
46.56	do .....	.....	PX
46.58	do .....	.....	PX
47.02	do	21, 22	PH
47.04	do	21, 22	PH
47.06	do	21, 22	PH
47.08	do	21, 22	PH
47.10	do	21, 22	PH
47.12	do	21, 22	PH
47.14	do	21, 22	PH
47.16	do	21, 22	PH
47.18	do	21, 22	PH
47.20	do	21, 22	PH
47.22	do	21, 22	PH
47.24	do	21, 22	PH
47.26	do	21, 22	PH
47.28	do	21, 22	PH
47.30	do	21, 22	PH
47.32	do	21, 22	PH
47.34	do	21, 22	PH
47.36	do	21, 22	PH
47.38	do	21, 22	PH
47.40	do	21, 22	PH
47.42	do	10, 23	PS
47.46	do	10	PS
47.50	do	10	PS
47.54	do	10	PS
47.58	do	10	PS
47.62	do	10	PS
47.66	do	10	PS
72.00 to 76.00	Operational fixed.	24	
72.44	Mobile	25	PF
72.48	do	25	PF
72.52	do	25	PF
72.56	do	25	PF
72.6	do	25	PF
75.44	do	25	PF
75.48	do	25	PF
75.52	do	25	PF
75.56	do	25	PF
75.6	do	25	PF
150 to 170	Base or mobile	26	
150.775	Mobile	87	PM.
150.7825	do	88	PM
150.790	do	87	PM.
150.7975	do	88	PM.
150.805	do .....	.....	PM
150.995	Base or mobile	28	PH
151.0025	do	27, 28	PH
151.010	do	28	PH
151.0175	do	28	PH
151.025	do	28	PH
151.0325	do	27, 28	PH
151.040	do	28	PH
151.0475	do	27, 28	PH

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
151.055	do	28	PH
151.0625	do	27, 28	PH
151.070	do	28	PH
151.0775	do	27, 28	PH
151.085	do	28	PH
151.0925	do	27, 28	PH
151.100	do	28	PH
151.1075	do	27, 28	PH
151.115	do	28	PH
151.1225	do	27, 28	PH
151.130	do	28, 81	PH
151.1375	do	27, 28, 80	PH
151.145	do	28, 81	PO
151.1525	do	27, 28	PO
151.160	do	28	PO
151.1675	do	27, 28	PO
151.175	do	28	PO
151.1825	do	27, 28	PO
151.190	do	28	PO
151.1975	do	27, 28	PO
151.205	do	28	PO
151.2125	do	27, 28	PO
151.220	do	28	PO
151.2275	do	27, 28	PO
151.235	do	28	PO
151.2425	do	27, 28	PO
151.250	do	28	PO
151.2575	do	27, 28	PO
151.265	do	28	PO
151.2725	do	27, 28	PO
151.280	do	28	PO
151.2875	do	27, 28	PO
151.295	do	28	PO
151.3025	do	27, 28	PO
151.310	do	28	PO
151.3175	do	27, 28	PO
151.325	do	28	PO
151.3325	do	27, 28	PO
151.340	do	28	PO
151.3475	do	27, 28	PO
151.355	do	28	PO
151.3625	do	27, 28	PO
151.370	do	28	PO
151.3775	do	2728	PO
151.385	do	28	PO
151.3925	do	27, 28	PO
151.400	do	28	PO
151.4075	do	27, 28	PO
151.415	do	28	PO
151.4225	do	27, 28	PO
151.430	do	28	PO
151.4375	do	27, 28	PO
151.445	do	28	PO
151.4525	do	27, 28	PO
151.460	do	28	PO
151.4675	do	27, 28	PO
151.475	do	28	PO
151.4825	do	27, 28	PO
151.490	do	7, 28	PO
151.4975	do	7, 27, 28	PO
152.0075	Base	13, 29, 30	PS
153.740	Mobile .....	.....	PX
153.7475	do	27	PX
153.755	do .....	.....	PX
153.7625	do	27	PX
153.770	do		PF
153.7775	do	27	PF
153.785	do		PX
153.7925	do	27	PX
153.800	do		PX

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**PUBLIC SAFETY POOL FREQUENCY TABLE—
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Frequency or band	Class of station(s)	Limitations	Coordinator
153.8075	do	27	PX
153.815	do .....	.....	PX
153.8225	do	27	PX
153.830	do	31	PF
153.8375	do	27, 31	PF
153.845	do .....	.....	PX
153.8525	do	27	PX
153.860	do .....	.....	PX
153.8675	do	27	PX
153.875	do .....	.....	PX
153.8825	do	27	PX
153.890	do .....	.....	PF
153.8975	do	27	PF
153.905	do .....	.....	PX
153.9125	do	27	PX
153.920	do .....	.....	PX
153.9275	do	27	PX
153.935	do .....	.....	PX
153.9425	do	27	PX
153.950	do .....	.....	PF
153.9575	do	27	PF
153.965	do .....	.....	PX
153.9725	do	27	PX
153.980	do .....	.....	PX
153.9875	do	27	PX
153.995	do .....	.....	PX
154.0025	do	27	PX
154.010	do .....	.....	PF
154.0175	do	27	PF
154.025	Base or mobile	.....	PX
154.0325	do	27	PX
154.040	do	28	PX
154.0475	do	27, 28	PX
154.055	do	28	PX
154.0625	do	27, 28	PX
154.070	Mobile	28	PF
154.0775	do	27, 28	PF
154.085	Base or mobile	28	PX
154.0925	do	2728	PX
154.100	do	28	PX
154.1075	do	27, 28	PX
154.115	do	28	PX
154.1225	do	27, 28	PX
154.130	do	28	PF
154.1375	do	27, 28	PF
154.145	do	28	PF
154.1525	do	27, 28	PF
154.160	do	28	PF
154.1675	do	27, 28	PF
154.175	do	28	PF
154.1825	do	27, 28	PF
154.190	do	28	PF
154.1975	do	27, 28	PF
154.205	do	28	PF
154.2125	do	27, 28	PF
154.220	do	28	PF
154.2275	do	27, 28	PF
154.235	do	28	PF
154.2425	do	27, 28	PF
154.250	do	28	PF
154.2575	do	27, 28	PF
154.265	do	19, 28	PF
154.2725	do	19, 27, 28	PF
154.280	do	19, 28	PF
154.2875	do	19, 27, 28	PF
154.295	do	19, 28	PF
154.3025	do	19, 27, 28	PF
154.310	do	28	PF
154.3175	do	27, 28	PF
154.325	do	28	PF

**PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued**

Frequency or band	Class of station(s)	Limitations	Coordinator
154.3325	do	27, 28	PF
154.340	do	28	PF
154.3475	do	27, 28	PF
154.355	do	28	PF
154.3625	do	27, 28	PF
154.370	do	28	PF
154.3775	do	27, 28	PF
154.385	do	28	PF
154.3925	do	27, 28	PF
154.400	do	28	PF
154.4075	do	27, 28	PF
154.415	do	28	PF
154.4225	do	27, 28	PF
154.430	do	28	PF
154.4375	do	27, 28	PF
154.445	do	28, 81	PF
154.4525	do	27, 28, 80	PF
154.45625	Fixed or mobile	32, 33, 34, 35	PX
154.46375	do	33, 34, 35, 36, 37	PX
154.47125	do	33, 34, 35, 36	PX
154.47875	do	33, 34, 35, 37	PX
154.650	Mobile	.....	PP
154.6575	do	27	PP
154.665	Base or mobile	16	PP
154.6725	do	16, 27	PP
154.680	do	16	PP
154.6875	do	16, 27	PP
154.695	do	16	PP
154.7025	do	16, 27	PP
154.710	Mobile	.....	PP
154.7175	do	27	PP
154.725	Base or mobile	.....	PP
154.7325	do	27	PP
154.740	do .....	.....	PP
154.7475	do	27	PP
154.755	do .....	.....	PP
154.7625	do	27	PP
154.770	Mobile	.....	PP
154.7775	do	27	PP
154.785	Base or mobile	.....	PP
154.7925	do	27	PP
154.800	do .....	.....	PP
154.8075	do	27	PP
154.815	do .....	.....	PP
154.8225	do	27	PP
154.830	Mobile	.....	PP
154.8375	do	27	PP
154.845	Base or mobile	.....	PP
154.8525	do	27	PP
154.860	do .....	.....	PP
154.8675	do	27	PP
154.875	do .....	.....	PP
154.8825	do	27	PP
154.890	Mobile	.....	PP
154.8975	do	27	PP
154.905	Base or mobile	16	PP
154.9125	do	16	PP
154.920	do	16	PP
154.9275	do	16, 27	PP
154.935	do	16	PP
154.9425	do	16, 27	PP
154.950	Mobile		PP
154.9575	do	27	PP
154.965	Base or mobile		PX
154.9725	do	27	PX
154.980	do		PX

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PUBLIC SAFETY POOL FREQUENCY TABLE—
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Frequency or band	Class of station(s)	Limitations	Coordinator
154.9875	do	27	PX
154.995	do .....	.....	PX
155.0025	do	27	PX
155.010	do .....	.....	PP
155.0175	do	27	PP
155.025	do .....	.....	PX
155.0325	do	27	PX
155.040	do .....	.....	PX
155.0475	do	27	PX
155.055	do .....	.....	PX
155.0625	do	27	PX
155.070	do .....	.....	PP
155.0775	do	27	PP
155.085	do .....	.....	PX
155.0925	do	27	PX
155.100	do .....	.....	PX
155.1075	do	27	PX
155.115	do .....	.....	PX
155.1225	do	27	PX
155.130	do .....	.....	PP
155.1375	do	27	PP
155.145	do .....	.....	PX
155.1525	do	27	PX
155.160	do	10	PS
155.1675	do	10, 27	PS
155.175	do	10	PS
155.1825	do	10, 27	PS
155.190	do .....	.....	PP
155.1975	do	27	PP
155.205	do	10	PS
155.2125	do	10, 27	PS
155.220	do	10	PS
155.2275	do	10, 27	PS
155.235	do	10	PS
155.2425	do	10, 27	PS
155.250	do .....	.....	PP
155.2575	do	27	PP
155.265	do	10	PS
155.2725	do	10, 27	PS
155.280	do	10	PS
155.2875	do	10, 27	PS
155.295	do	10	PS
155.3025	do	10, 27	PS
155.310	do .....	.....	PP
155.3175	do	27	PP
155.325	do	10, 39	PM
155.3325	do	27, 10, 39	PM
155.340	do	39, 40	PM
155.3475	do	27, 39, 40	PM
155.355	do	10, 39	PM
155.3625	do	27, 10, 39	PM
155.370	do .....	.....	PP
155.3775	do	27	PP
155.385	do	10, 39	PM
155.3925	do	27, 10, 39	PM
155.400	do	10, 39	PM
155.4075	do	27, 10, 39	PM
155.415	do .....	.....	PP
155.4225	do	27	PP
155.430	do .....	.....	PP
155.4375	do	27	PP
155.445	do	16	PP
155.4525	do	16, 27	PP
155.460	do	16	PP
155.4675	do	16, 27	PP
155.475	do	41	PP
155.4825	do	27, 41	PP
155.490	do .....	.....	PP
155.4975	do	27	PP
155.505	do	16	PP

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
155.5125	do	16, 27	PP
155.520	do .....	.....	PP
155.5275	do	27	PP
155.535	do .....	.....	PP
155.5425	do	27	PP
155.550	do .....	.....	PP
155.5575	do	27	PP
155.565	do .....	.....	PP
155.5725	do	27	PP
155.580	do .....	.....	PP
155.5875	do	27	PP
155.595	do .....	.....	PP
155.6025	do	27	PP
155.610	do .....	.....	PP
155.6175	do	27	PP
155.625	do .....	.....	PP
155.6325	do	27	PP
155.640	do .....	.....	PP
155.6475	do	27	PP
155.655	do .....	.....	PP
155.6625	do	27	PP
155.670	do .....	.....	PP
155.6775	do	27	PP
155.685	do .....	.....	PP
155.6925	do	27	PP
155.700	do .....	.....	PP
155.7075	do	27	PP
155.715	do .....	.....	PX
155.7225	do	27	PX
155.730	do .....	.....	PP
155.7375	do	27	PP
155.745	do	81	PX
155.7525	do	27, 80, 83	PX
155.760	do	81	PX
155.7675	do	27	PX
155.775	do .....	.....	PX
155.7825	do	27	PX
155.790	do .....	.....	PP
155.7975	do	27	PP
155.805	do .....	.....	PX
155.8125	do	27	PX
155.820	do .....	.....	PX
155.8275	do	27	PX
155.835	do .....	.....	PX
155.8425	do	27	PX
155.850	Mobile .....	.....	PP
155.8575	do	27	PP
155.865	Base or mobile .....	.....	PX
155.8725	do	27	PX
155.880	do .....	.....	PX
155.8875	do	27	PX
155.895	do .....	.....	PX
155.9025	do	27	PX
155.910	Mobile .....	.....	PP
155.9175	do	27	PP
155.925	Base or mobile .....	.....	PX
155.9325	do	27	PX
155.940	do .....	.....	PX
155.9475	do	27	PX
155.955	do .....	.....	PX
155.9625	do	27	PX
155.970	Mobile .....	.....	PP
155.9775	do	27	PP
155.985	do .....	.....	PX
155.9925	do	27	PX
156.000	do		PX
156.0075	do	27	PX
156.015	do		PX
156.0225	do	27	PX
156.030	do		PP

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**PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued**

Frequency or band	Class of station(s)	Limitations	Coordinator
156.0375	do	27	PP
156.045	do	42	PH
156.0525	do	27, 42	PH
156.060	do	42	PH
156.0675	do	27, 42	PH
156.075	do .....	.....	PH
156.0825	do	27	PH
156.090	do .....	.....	PP
156.0975	do	27	PP
156.105	Base or mobile	.....	PH
156.1125	do	27	PH
156.120	do .....	.....	PH
156.1275	do	27	PH
156.135	do .....	.....	PH
156.1425	do	27	PH
156.150	Mobile	.....	PP
156.1575	do	27	PP
156.165	Base or mobile	42	PH
156.1725	do	27, 42	PH
156.180	do	42	PH
156.1875	do	27, 42	PH
156.195	do .....	.....	PH
156.2025	do	27	PH
156.210	do .....	.....	PP
156.2175	do	27	PP
156.225	do .....	.....	PH
156.2325	do	27, 10	PH
156.240	do	79	PH
157.450	Base	13, 30, 45	PS
158.7225	Base or Mobile	44	PP
158.730	do	81	PP
158.7375	do	27, 80	PP
158.745	do	81	PX
158.7525	do	27	PX
158.760	do .....	.....	PX
158.7675	do	27	PX
158.775	do .....	.....	PX
158.7825	do	27	PX
158.790	do .....	.....	PP
158.7975	do	27	PP
158.805	do .....	.....	PX
158.8125	do	27	PX
158.820	do .....	.....	PX
158.8275	do .....	.....	PX
158.835	do .....	.....	PX
158.8425	do	27	PX
158.850	do .....	.....	PP
158.8575	do	27	PP
158.865	Mobile	.....	PX
158.8725	do	27	PX
158.880	do .....	.....	PX
158.8875	do .....	.....	PX
158.895	do .....	.....	PX
158.9025	do	27	PX
158.910	do .....	.....	PP
158.9175	do	27	PP
158.925	do .....	.....	PX
158.9325	do	27	PX
158.940	do .....	.....	PX
158.9475	do .....	.....	PX
158.955	do .....	.....	PX
158.9625	do	27	PX
158.970	do .....	.....	PP
158.9775	do	27	PP
158.985	do .....	.....	PH
158.9925	do	27	PH
159.000	do .....	.....	PH
159.0075	do	27	PH
159.015	do .....	.....	PH
159.0225	do	27	PH

**PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued**

Frequency or band	Class of station(s)	Limitations	Coordinator
159.030	do .....	.....	PP
159.0375	do	27	PP
159.045	do .....	.....	PH
159.0525	do	27	PH
159.060	do .....	.....	PH
159.0675	do	27	PH
159.075	do .....	.....	PH
159.0825	do	27	PH
159.090	Base or mobile	.....	PP
159.0975	do	27	PP
159.105	do .....	.....	PH
159.1125	do	27	PH
159.120	do .....	.....	PH
159.1275	do	27	PH
159.135	do .....	.....	PH
159.1425	do	27	PH
159.150	do .....	.....	PP
159.1575	do	27	PP
159.165	do .....	.....	PH
159.1725	do	27	PH
159.180	do .....	.....	PH
159.1875	do	27	PH
159.195	do .....	.....	PH
159.2025	do	27	PH
159.210	do .....	.....	PP
159.2175	do	27	PP
159.225	do .....	.....	PO
159.2325	do	27	PO
159.240	do	46	PO
159.2475	do	27, 46	PO
159.255	do	46	PO
159.2625	do	27, 46	PO
159.270	do	46	PO
159.2775	do	27, 46	PO
159.285	do	46	PO
159.2925	do	27, 46	PO
159.300	do	46	PO
159.3075	do	27, 46	PO
159.315	do	46	PO
159.3225	do	27, 46	PO
159.330	do	46	PO
159.3375	do	27, 46	PO
159.345	do	46	PO
159.3525	do	27, 46	PO
159.360	do	46	PO
159.3675	do	27, 46	PO
159.375	do	46	PO
159.3825	do	27, 46	PO
159.390	do	46	PO
159.3975	do	27, 46	PO
159.405	do	46	PO
159.4125	do	27, 46	PO
159.420	do	46	PO
159.4275	do	27, 46	PO
159.435	do	46	PO
159.4425	do	27, 46	PO
159.450	do .....	.....	PO
159.4575	do	27	PO
159.465	do	81	PO
159.4725	do	80	PO
163.250	Base	13, 30	PS
166.250	Base or mobile	47	PF
169 to 172	Mobile or operational fixed.	48.	
170.150	Base or mobile	47	PF
170.425	do	9, 49	PO.
170.475	do	9, 49	PO.
170.575	do	9, 49	PO.
171.425	do	9, 49	PO.
171.475	do	9, 49	PO.

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Frequency or band	Class of station(s)	Limitations	Coordinator
171.575	...do	9, 49	PO.
172.225	...do	9, 49	PO.
172.275	...do	9, 49	PO.
172.375	...do	9, 49	PO.
173.075	...do	53	PP
173.20375	Fixed or mobile	33, 34, 35, 36.	PX
173.210	...do	34, 35, 36, 54.	PX
173.2375	...do	90, 91, 92, 93.	PX
173.2625	...do	90, 91, 92, 93.	PX
173.2875	...do	90, 91, 92, 93.	PX
173.3125	...do	90, 91, 92, 93.	PX
173.3375	...do	90, 91, 92, 93.	PX
173.3625	...do	90, 91, 92, 93.	PX
173.390	...do	34, 35, 36, 54.	PX
173.39625	...do	33, 34, 35, 36.	PX
220 to 222	Base or mobile	55.	
220.8025	Base	55	
220.8075	...do	55	
220.8125	...do	55	
220.8175	...do	55	
220.8225	...do	55	
220.8275	...do	55	
220.8325	...do	55	
220.8375	...do	55	
220.8425	...do	55	
220.8475	...do	55	
220.9025	...do	55	PM
220.9075	...do	55	PM
220.9125	...do	55	PM
220.9175	...do	55	PM
220.9225	...do	55	PM
221.8025	Mobile	55	
221.8075	...do	55	
221.8125	...do	55	
221.8175	...do	55	
221.8225	...do	55	
221.8275	...do	55	
221.8325	...do	55	
221.8375	...do	55	
221.8425	...do	55	
221.8475	...do	55	
221.9025	...do	55	PM
221.9075	...do	55	PM
221.9125	...do	55	PM
221.9175	...do	55	PM
221.9225	...do	55	PM
406 to 416	Operational fixed.	48.	
450 to 470	Fixed, base, or mobile.	26, 56	
453.0125	Mobile	57, 78	PX
453.03125	Base or mobile	44, 59, 62, 84.	PM
453.0375	...do	27, 59, 62, 84.	PX
453.04375	...do	44, 59, 62, 84.	PM
453.050	...do		PX
453.05625	...do	44, 84	PX
453.0625	...do	27, 84	PX

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
453.06875	...do	44, 84	PX
453.075	Central control, fixed base, or mobile.	58, 59, 60, 61, 62.	PM
453.08125	Base or mobile	44, 59, 62, 84.	PM
453.0875	...do	27, 59, 62, 84.	PX
453.09375	...do	44, 59, 62, 84.	PM
453.100	...do		PX
453.10625	...do	44, 84	PX
453.1125	...do	27, 84	PX
453.11875	...do	44, 84	PX
453.125	Central control, fixed base, or mobile.	58, 59, 60, 61, 62.	PM
453.13125	Base or mobile	44, 59, 62, 84.	PM
453.1375	...do	27, 59, 62, 84.	PX
453.14375	...do	44, 59, 62, 84.	PM
453.150	...do		PX
453.15625	...do	44	PX
453.1625	...do	27	PX
453.16875	...do	44	PX
453.175	Central control, fixed base, or mobile.	58, 59, 60, 61, 62.	PM
453.18125	Base or mobile	44, 59, 62	PM
453.1875	...do	27, 59, 62	PX
453.19375	...do	44, 59, 62	PM
453.200	...do	81	PX
453.20625	...do	44, 82	PX
453.2125	...do	27, 80, 83	PX
453.21875	...do	44, 82	PX
453.225	...do	81	PX
453.23125	...do	44	PX
453.2375	...do	27	PX
453.24375	...do	44	PX
453.250	...do		PX
453.25625	...do	44	PX
453.2625	...do	27	PX
453.26875	...do	44	PX
453.275	...do		PX
453.28125	...do	44	PX
453.2875	...do	27	PX
453.29375	...do	44	PX
453.300	...do		PX
453.30625	...do	44	PX
453.3125	...do	27	PX
453.31875	...do	44	PX
453.325	...do		PX
453.33125	...do	44	PX
453.3375	...do	27	PX
453.34375	...do	44	PX
453.350	...do		PX
453.35625	...do	44	PX
453.3625	...do	27	PX
453.36875	...do	44	PX
453.375	...do		PX
453.38125	...do	44	PX
453.3875	...do	27	PX
453.39375	...do	44	PX
453.400	...do		PX
453.40625	...do	44	PX
453.4125	...do	27	PX
453.41875	...do	44	PX
453.425	...do		PX

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PUBLIC SAFETY POOL FREQUENCY TABLE—
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Frequency or band	Class of station(s)	Limitations	Coordinator
453.43125	do	44	PX
453.4375	do	27	PX
453.44375	do	44	PX
453.450	do	81	PX
453.45625	do	44, 82	PX
453.4625	do	27, 80	PX
453.46875	do	44, 82	PX
453.475	do	81	PX
453.48125	do	44	PX
453.4875	do	27	PX
453.49375	do	44	PX
453.500	do .....	.....	PX
453.50625	do	44	PX
453.5125	do	27	PX
453.51875	do	44	PX
453.525	do .....	.....	PX
453.53125	do	44	PX
453.5375	do	27	PX
453.54375	do	44	PX
453.550	do .....	.....	PX
453.55625	do	44	PX
453.5625	do	27	PX
453.56875	do	44	PX
453.575	do .....	.....	PX
453.58125	do	44	PX
453.5875	do	27	PX
453.59375	do	44	PX
453.600	do .....	.....	PX
453.60625	do	44	PX
453.6125	do	27	PX
453.61875	do	44	PX
453.625	do .....	.....	PX
453.63125	do	44	PX
453.6375	do	27	PX
453.64375	do	44	PX
453.650	do .....	.....	PX
453.65625	do	44	PX
453.6625	do	27	PX
453.66875	do	44	PX
453.675	do .....	.....	PX
453.68125	do	44	PX
453.6875	do	27	PX
453.69375	do	44	PX
453.700	do	81	PX
453.70625	do	44, 82	PX
453.7125	do	27, 80	PX
453.71875	do	44, 82	PX
453.725	do	81	PX
453.73125	do	44	PX
453.7375	do	27	PX
453.74375	do	44	PX
453.750	do .....	.....	PX
453.75625	do	44	PX
453.7625	do	27	PX
453.76875	do	44	PX
453.775	do .....	.....	PX
453.78125	do	44	PX
453.7875	do	27	PX
453.79375	do	44	PX
453.800	do .....	.....	PX
453.80625	do	44	PX
453.8125	do	27	PX
453.81875	do	44	PX
453.825	do .....	.....	PX
453.83125	do	44	PX
453.8375	do	27	PX
453.84375	do	44	PX
453.850	do	81	PX
453.85625	do	44, 82	PX
453.8625	do	27, 80	PX

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
453.86875	do	44, 82	PX
453.875	do	81	PX
453.88125	do	44, 84	PX
453.8875	do	27, 84	PX
453.89375	do	44, 84	PX
453.900	do .....	.....	PX
453.90625	do	44, 84	PX
453.9125	do	27, 84	PX
453.91875	do	44, 84	PX
453.925	do .....	.....	PX
453.93125	do	44, 84	PX
453.9375	do	27, 84	PX
453.94375	do	44, 84	PX
453.950	do .....	.....	PX
453.95625	do	44, 84	PX
453.9625	do	27, 84	PX
453.96875	do	44, 84	PX
453.975	do .....	.....	PX
453.98125	do	44, 84	PX
453.9875	do	27, 84	PX
453.99375	do	44, 84	PX
458.0125	Mobile	57	PS
458.025	Central control, fixed base, or mobile.	58, 59, 61, 62, 63.	PM
458.03125	Mobile	44, 59, 61, 62, 84.	PM
458.0375	do	27, 59, 61, 62, 84.	PX
458.04375	do	44, 59, 61, 62, 84.	PM
458.050	do .....	.....	PX
458.05625	do	44, 84	PX
458.0625	do	27, 84	PX
458.06875	do	44, 84	PX
458.075	Central control, fixed base, or mobile.	58, 59, 61, 62, 63.	PM
458.08125	Mobile	44, 59, 61, 62, 84.	PM
458.0875	do	27, 59, 61, 62, 84.	PX
458.09375	do	44, 59, 61, 62, 84.	PM
458.100	do .....	.....	PX
458.10625	do	44, 84	PX
458.1125	do	27, 84	PX
458.11875	do	44, 84	PX
458.125	Central control, fixed base, or mobile.	58, 59, 61, 62, 63.	PM
458.13125	Mobile	44, 59, 61, 62, 84.	PM
458.1375	do	27, 59, 61, 62, 84.	PX
458.14375	do	44, 59, 61, 62, 84.	PM
458.150	do .....	.....	PX
458.15625	do	44	PX
458.1625	do	27	PX
458.16875	do	44	PX
458.175	Central control, fixed base, or mobile.	58, 59, 61, 62, 63.	PM
458.18125	Mobile	44, 59, 61, 62.	PM
458.1875	do	27, 59, 61, 62.	PX
458.19375	do	44, 59, 61, 62.	PM

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PUBLIC SAFETY POOL FREQUENCY TABLE—
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Frequency or band	Class of station(s)	Limitations	Coordinator
458.200	do	81	PX
458.20625	do	44, 82	PX
458.2125	do	27, 80, 83	PX
458.21875	do	44, 82	PX
458.225	do	81	PX
458.23125	do	44	PX
458.2375	do	27	PX
458.24375	do	44	PX
458.250	do	do	PX
458.25625	do	44	PX
458.2625	do	27	PX
458.26875	do	44	PX
458.275	do	do	PX
458.28125	do	44	PX
458.2875	do	27	PX
458.29375	do	44	PX
458.300	do	do	PX
458.30625	do	44	PX
458.3125	do	27	PX
458.31875	do	44	PX
458.325	do	do	PX
458.33125	do	44	PX
458.3375	do	27	PX
458.34375	do	44	PX
458.350	do	do	PX
458.35625	do	44	PX
458.3625	do	27	PX
458.36875	do	44	PX
458.375	do	do	PX
458.38125	do	44	PX
458.3875	do	27	PX
458.39375	do	44	PX
458.400	do	do	PX
458.40625	do	44	PX
458.4125	do	27	PX
458.41875	do	44	PX
458.425	do	do	PX
458.43125	do	44	PX
458.4375	do	27	PX
458.44375	do	44	PX
458.450	do	81	PX
458.45625	do	44, 82	PX
458.4625	do	27, 80	PX
458.46875	do	44, 82	PX
458.475	do	81	PX
458.48125	do	44	PX
458.4875	do	27	PX
458.49375	do	44	PX
458.500	do	do	PX
458.50625	do	44	PX
458.5125	do	27	PX
458.51875	do	44	PX
458.525	do	do	PX
458.53125	do	44	PX
458.5375	do	27	PX
458.54375	do	44	PX
458.550	do	do	PX
458.55625	do	44	PX
458.5625	do	27	PX
458.56875	do	44	PX
458.575	do	do	PX
458.58125	do	44	PX
458.5875	do	27	PX
458.59375	do	44	PX
458.600	do	do	PX
458.60625	do	44	PX
458.6125	do	27	PX
458.61875	do	44	PX
458.625	do	do	PX
458.63125	do	44	PX

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
458.6375	do	27	PX
458.64375	do	44	PX
458.650	do	do	PX
458.65625	do	44	PX
458.6625	do	27	PX
458.66875	do	44	PX
458.675	do	do	PX
458.68125	do	44	PX
458.6875	do	27	PX
458.69375	do	44	PX
458.700	do	do	PX
458.70625	do	44	PX
458.7125	do	27	PX
458.71875	do	44	PX
458.725	do	do	PX
458.73125	do	44	PX
458.7375	do	27	PX
458.74375	do	44	PX
458.750	do	do	PX
458.75625	do	44	PX
458.7625	do	27	PX
458.76875	do	44	PX
458.775	do	do	PX
458.78125	do	44	PX
458.7875	do	27	PX
458.79375	do	44	PX
458.800	do	do	PX
458.80625	do	44	PX
458.8125	do	27	PX
458.81875	do	44	PX
458.825	do	do	PX
458.83125	do	44	PX
458.8375	do	27	PX
458.84375	do	44	PX
458.850	do	81	PX
458.85625	do	44, 82	PX
458.8625	do	27, 80	PX
458.86875	do	44, 82	PX
458.875	do	81	PX
458.88125	do	44, 84	PX
458.8875	do	27, 84	PX
458.89375	do	44, 84	PX
458.900	do	do	PX
458.90625	do	44, 84	PX
458.9125	do	27, 84	PX
458.91875	do	44, 84	PX
458.925	do	do	PX
458.93125	do	44, 84	PX
458.9375	do	27, 84	PX
458.94375	do	44, 84	PX
458.950	do	do	PX
458.95625	do	44, 84	PX
458.9625	do	27, 84	PX
458.96875	do	44, 84	PX
458.975	do	do	PX
458.98125	do	44, 84	PX
458.9875	do	27, 84	PX
458.99375	do	44, 84	PX
460.0125	do	27, 64	PP
460.01875	Base or mobile	44	PP
460.025	do	do	PP
460.03125	do	44	PP
460.0375	do	27	PP
460.04375	do	44	PP
460.050	do	do	PP
460.05625	do	44	PP
460.0625	do	27	PP
460.06875	do	44	PP
460.075	do	do	PP
460.08125	do	44	PP

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PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
460.0875	do	27	PP
460.09375	do	44	PP
460.100	do	PP	PP
460.10625	do	44	PP
460.1125	do	27	PP
460.11875	do	44	PP
460.125	do	PP	PP
460.13125	do	44	PP
460.1375	do	27	PP
460.14375	do	44	PP
460.150	do	PP	PP
460.15625	do	44	PP
460.1625	do	27	PP
460.16875	do	44	PP
460.175	do	PP	PP
460.18125	do	44	PP
460.1875	do	27	PP
460.19375	do	44	PP
460.200	do	PP	PP
460.20625	do	44	PP
460.2125	do	27	PP
460.21875	do	44	PP
460.225	do	PP	PP
460.23125	do	44	PP
460.2375	do	27	PP
460.24375	do	44	PP
460.250	do	PP	PP
460.25625	do	44	PP
460.2625	do	27	PP
460.26875	do	44	PP
460.275	do	PP	PP
460.28125	do	44	PP
460.2875	do	27	PP
460.29375	do	44	PP
460.300	do	PP	PP
460.30625	do	44	PP
460.3125	do	27	PP
460.31875	do	44	PP
460.325	do	PP	PP
460.33125	do	44	PP
460.3375	do	27	PP
460.34375	do	44	PP
460.350	do	PP	PP
460.35625	do	44	PP
460.3625	do	27	PP
460.36875	do	44	PP
460.375	do	PP	PP
460.38125	do	44	PP
460.3875	do	27	PP
460.39375	do	44	PP
460.400	do	PP	PP
460.40625	do	44	PP
460.4125	do	27	PP
460.41875	do	44	PP
460.425	do	PP	PP
460.43125	do	44	PP
460.4375	do	27	PP
460.44375	do	44	PP
460.450	do	PP	PP
460.45625	do	44	PP
460.4625	do	27	PP
460.46875	do	44	PP
460.475	do	PP	PP
460.48125	do	44, 84	PP
460.4875	do	27, 84	PP
460.49375	do	44, 84	PP
460.500	do	PP	PP
460.50625	do	44, 84	PP
460.5125	do	27, 84	PP
460.51875	do	44, 84	PP

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
460.525	do .....	.....	PP, PF, PM
460.53125	do	44, 84	PP, PF, PM
460.5375	do	27, 84	PP, PF, PM
460.54375	do	44, 84	PP, PF, PM
460.550	do .....	.....	PP, PF, PM
460.55625	do	44, 84	PP, PF, PM
460.5625	do	27, 84	PP, PF, PM
460.56875	do	44, 84	PP, PF, PM
460.575	do .....	.....	PF
460.58125	do	44	PF
460.5875	do	27	PF
460.59375	do	44	PF
460.600	do .....	.....	PF
460.60625	do	44	PF
460.6125	do	27	PF
460.61875	do	44	PF
460.625	do .....	.....	PF
460.63125	do	44	PF
460.6375	do	27	PF
460.64375	do	44	PF
462.9375	do	57	PF
462.950	do	10, 65	PM
462.95625	do	10, 44, 65	PM
462.9625	do	27, 10, 65	PM
462.96875	do	10, 44, 65	PM
462.975	do	10, 65	PM
462.98125	do	10, 44, 65	PM
462.9875	do	27, 10, 65	PM
462.99375	do	10, 44, 65	PM
463.000	do	59, 66, 67	PM
463.00625	do	44, 59, 66, 67	PM
463.0125	do	27, 59, 66, 67	PM
463.01875	do	44, 59, 66, 67	PM
463.025	do	59, 66, 67	PM
463.03125	do	44, 59, 66, 67	PM
463.0375	do	27, 59, 66, 67	PM
463.04375	do	44, 59, 66, 67	PM
463.050	do	59, 66, 67	PM
463.05625	do	44, 59, 66, 67	PM
463.0625	do	27, 59, 66, 67	PM
463.06875	do	44, 59, 66, 67	PM
463.075	do	59, 66, 76	PM
463.08125	do	44, 59, 66, 76	PM
463.0875	do	27, 59, 66, 76	PM
463.09375	do	44, 59, 66, 76	PM
463.100	do	59, 66, 76	PM
463.10625	do	44, 59, 66, 76	PM
463.1125	do	27, 59, 66, 76	PM

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
463.11875	do	44, 59, 66, 76.	PM
463.125	do	59, 66, 76	PM
463.13125	do	44, 59, 66, 76.	PM
463.1375	do	27, 59, 66, 76.	PM
463.14375	do	44, 59, 66, 76.	PM
463.150	do	59, 66, 76	PM
463.15625	do	44, 59, 66, 76.	PM
463.1625	do	27, 59, 66, 76.	PM
463.16875	do	44, 59, 66, 76.	PM
463.175	do	59, 66, 76	PM
463.18125	do	44, 59, 66, 76.	PM
463.1875	do	27, 59, 66, 76.	PM
463.19375	do	44, 59, 66, 76.	PM
465.0125	Mobile	57	PP
465.025	do .....	.....	PP
465.03125	do	44	PP
465.0375	do	27	PP
465.04375	do	44	PP
465.050	do .....	.....	PP
465.05625	do	44	PP
465.0625	do	27	PP
465.06875	do	44	PP
465.075	do .....	.....	PP
465.08125	do	44	PP
465.0875	do	27	PP
465.09375	do	44	PP
465.100	do .....	.....	PP
465.10625	do	44	PP
465.1125	do	27	PP
465.11875	do	44	PP
465.125	do .....	.....	PP
465.13125	do	44	PP
465.1375	do	27	PP
465.14375	do	44	PP
465.150	do .....	.....	PP
465.15625	do	44	PP
465.1625	do	27	PP
465.16875	do	44	PP
465.175	do .....	.....	PP
465.18125	do	44	PP
465.1875	do	27	PP
465.19375	do	44	PP
465.200	do .....	.....	PP
465.20625	do	44	PP
465.2125	do	27	PP
465.21875	do	44	PP
465.225	do .....	.....	PP
465.23125	do	44	PP
465.2375	do	27	PP
465.24375	do	44	PP
465.250	do .....	.....	PP
465.25625	do	44	PP
465.2625	do	27	PP
465.26875	do	44	PP
465.275	do .....	.....	PP
465.28125	do	44	PP
465.2875	do	27	PP
465.29375	do	44	PP
465.300	do .....	.....	PP
465.30625	do	44	PP

PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued

Frequency or band	Class of station(s)	Limitations	Coordinator
465.3125	do	27	PP
465.31875	do	44	PP
465.325	do .....	.....	PP
465.33125	do	44	PP
465.3375	do	27	PP
465.34375	do	44	PP
465.350	do .....	.....	PP
465.35625	do	44	PP
465.3625	do	27	PP
465.36875	do	44	PP
465.375	do .....	.....	PP
465.38125	do	44	PP
465.3875	do	27	PP
465.39375	do	44	PP
465.400	do .....	.....	PP
465.40625	do	44	PP
465.4125	do	27	PP
465.41875	do	44	PP
465.425	do .....	.....	PP
465.43125	do	44	PP
465.4375	do	27	PP
465.44375	do	44	PP
465.450	do .....	.....	PP
465.45625	do	44	PP
465.4625	do	27	PP
465.46875	do	44	PP
465.475	do .....	.....	PP
465.48125	do	44, 84	PP
465.4875	do	27, 84	PP
465.49375	do	44, 84	PP
465.500	do .....	.....	PP
465.50625	do	44, 84	PP
465.5125	do	27, 84	PP
465.51875	do	44, 84	PP
465.525	do .....	.....	PP, PF, PM
465.53125	do	44, 84	PP, PF, PM
465.5375	do	27, 84	PP, PF, PM
465.54375	do	44, 84	PP, PF, PM
465.550	Base or mobile	.....	PP, PF, PM
465.55625	do	44, 84	PP, PF, PM
465.5625	do	27, 84	PP, PF, PM
465.56875	do	44, 84	PP, PF, PM
465.575	Mobile .....	.....	PF
465.58125	do	44	PF
465.5875	do	27	PF
465.59375	do	44	PF
465.600	do .....	.....	PF
465.60625	do	44	PF
465.6125	do	27	PF
465.61875	do	44	PF
465.625	do .....	.....	PF
465.63125	do	44	PF
465.6375	do	27	PF
465.64375	do	44	PF
467.9375	do	57	PS
467.950	do	10, 65	PM
467.95625	do	10, 44, 65	PM
467.9625	do	10, 27, 65	PM
467.96875	do	10, 44, 65	PM
467.975	do	10, 65	PM
467.98125	do	10, 44, 65	PM
467.9875	do	10, 27, 65	PM

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**PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued**

Frequency or band	Class of station(s)	Limitations	Coordinator
467.99375	do	10, 44, 65	PM
468.000	do	59, 66, 67	PM
468.00625	do	44, 59, 66, 67.	PM
468.0125	do	27, 59, 66, 67.	PM
468.01875	do	44, 59, 66, 67.	PM
468.025	do	59, 66, 67	PM
468.03125	do	44, 59, 66, 67.	PM
468.0375	do	27, 59, 66, 67.	PM
468.04375	do	44, 59, 66, 67.	PM
468.050	do	59, 66, 67	PM
468.05625	do	44, 59, 66, 67.	PM
468.0625	do	27, 59, 66, 67.	PM
468.06875	do	44, 59, 66, 67.	PM
468.075	do	59, 66, 76	PM
468.08125	do	44, 59, 66, 76.	PM
468.0875	do	27, 59, 66, 76.	PM
468.09375	do	44, 59, 66, 76.	PM
468.100	do	59, 66, 76	PM
468.10625	do	44, 59, 66, 76.	PM
468.1125	do	27, 59, 66, 76.	PM
468.11875	do	44, 59, 66, 76.	PM
468.125	do	59, 66, 76	PM
468.13125	do	44, 59, 66, 76.	PM
468.1375	do	27, 59, 66, 76.	PM
468.14375	do	44, 59, 66, 76.	PM
468.150	do	59, 66, 76	PM
468.15625	do	44, 59, 66, 76.	PM
468.1625	do	27, 59, 66, 76.	PM
468.16875	do	44, 59, 66, 76.	PM
468.175	do	59, 66, 76	PM
468.18125	do	44, 59, 66, 76.	PM
468.1875	do	27, 59, 66, 76.	PM
468.19375	do	44, 59, 66, 76.	PM
470 to 512	Base or mobile	68.	
758 to 775	Base, mobile ...	77	PX
788 to 805	Mobile	77	PX
806 to 817	do	69.	
851 to 862	Base or mobile	69	
928 and above	Operational fixed.	70.	
929 to 930	Base only	71.	
1,427 to 1,432	Base, mobile or operational fixed.	72.	
2,450 to 2,500	Base or mobile	73.	

**PUBLIC SAFETY POOL FREQUENCY TABLE—
Continued**

Frequency or band	Class of station(s)	Limitations	Coordinator
4940 to 4990 ...	Fixed, base or mobile.	85	
5895–5925	Base or mobile	86	Not applicable.
10,550 to 10,680.	do	74.	

(d) Explanation of assignment limitations appearing in the frequency table of paragraph (c)(3) of this section:

(1) This frequency is available for use by Travelers' Information Stations in accordance with §90.242.

(2) The frequency is available for assignment only in accordance with a geographical assignment plan.

(3) Base stations operating on this frequency and rendering service to state police mobile units may be authorized to use a maximum output power in excess of the maximum indicated in §90.205 but not in excess of 7500 watts: Provided, That such operation is secondary to other stations.

(4) The use of this frequency is on a secondary basis to any Canadian station.

(5) In addition to base and mobile stations, this frequency may be assigned to fixed stations on a secondary basis to base or mobile stations. Upon a showing of need, the use of a second frequency in the band 2505–3500 kHz may be made available to governmental entities through appropriate arrangements with Federal Government agencies for restricted area use on a shared basis with maximum power output, emission, and hours of operation determined on the basis of the technical conditions involved in using the selected frequency in the particular area.

(6) Only the central governments of the fifty individual States, the District of Columbia, and the insular areas of the Commonwealth of the Northern Mariana Islands, the Commonwealth of Puerto Rico, and the unincorporated territories of American Samoa, Guam and the United States Virgin Islands are eligible to be licensed to use this spectrum, and then only for disaster communications purposes. Licensees may not use this spectrum to provide

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operational communications circuits. See also, § 90.264.

(7) This frequency is shared with the Industrial/Business Pool.

(8) This frequency is available for assignment only in accordance with a geographical assignment plan. This frequency may be used for conservation activities on a secondary basis to any station using the frequency for forest fire prevention, detection, and suppression.

(9) This frequency is reserved primarily for assignment to state licensees. Assignments to other licensees will be made only where the frequency is required for coordinated operation with the State system to which the frequency is assigned. Any request for such assignment must be supported by a statement from the State system concerned, indicating that the assignment is necessary for coordination of activities.

(10) A licensee regularly conducting two-way communication operations on this frequency may, on a secondary basis, also transmit one-way alert-paging signals to ambulance and rescue squad personnel.

(11) The maximum output power of any transmitter authorized to operate on this frequency shall not exceed 10 watts.

(12) This frequency is available in this service only to persons eligible under the provisions of paragraph (a)(2)(v) of this section for operation of transmitters having a maximum power output of three watts using A1A, A1D, A2B, A2D, F1B, F1D, F2B, F2D, G1B, G1D, G2B, or G2D emission. This frequency is also available in the Industrial/Business Pool on a co-equal basis with the Public Safety licensees.

(13) This frequency will be assigned only for one-way paging communications to mobile receivers. Transmissions for the purpose of activating or controlling remote objects on this frequency are not authorized.

(14) The maximum output power of any transmitter authorized to operate on this frequency, after June 1, 1956, shall not exceed two watts. Licensees holding a valid authorization as of June 1, 1956, for base or mobile station operation on this frequency, with a power in excess of two watts, may con-

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tinue to be authorized for such operation without regard to this power limitation.

(15) This frequency is reserved for assignment to stations for intersystem operations only: Provided, however, That licensees holding a valid authorization to use this frequency for local base or mobile operations as of June 1, 1956, may continue to be authorized for such use.

(16) This frequency is reserved primarily for assignment to state police licensees. Assignments to other police licensees will be made only where the frequency is required for coordinated operation with the state police system to which the frequency is assigned. Any request for such assignment must be supported by a statement from the state police system concerned indicating that the assignment is necessary for coordination of police activities.

(17) In the State of Alaska only, the frequency 42.40 MHz is available for assignment on a primary basis to stations in the Common Carrier Rural Radio Service utilizing meteor burst communications. The frequency may be used by private radio stations for meteor burst communications on a secondary, noninterference basis. Usage shall be in accordance with part 22 of this chapter or part 90. Stations utilizing meteor burst communications shall not cause harmful interference to stations of other radio services operating in accordance with the allocation table.

(18) No new licenses will be granted for one-way paging under § 90.487 for use on this frequency after August 1, 1980. This frequency is available to persons eligible for station licenses under the provisions of paragraph (a)(2)(v) of this section on a co-equal basis with one-way paging users under § 90.487 prior to August 1, 1985, and on a primary basis after August 1, 1985. Only A1A, A1D, A2B, A2D, F1B, F1D, F2B, F2D, G1B, G1D, G2B, G2D emissions and power not exceeding 10 watts will be authorized. Antennas having gain greater than 0 dBd will not be authorized. Transmissions shall not exceed two seconds duration.

(19) This frequency is reserved for assignment to stations in this service for

intersystem operations only and these operations must be primarily base-mobile communications.

(20) In the State of Alaska only, the frequency 45.90 MHz is available for assignment on a primary basis to private land mobile radio stations utilizing meteor burst communications. The frequency may be used by common carrier stations for meteor burst communications on a secondary, noninterference basis. Usage shall be in accordance with part 22 of this chapter and part 90. Stations utilizing meteor burst communications shall not cause harmful interference to stations of other radio services operating in accordance with the allocation table.

(21) This frequency will be assigned only in accordance with a geographical assignment plan and is reserved primarily for assignment to Highway maintenance systems operated by states. The use of this frequency by other Highway maintenance licensees will be authorized only where such use is necessary to coordinate activities with the particular state to which the frequency is assigned. Any request for such use must be supported by a statement from the state concerned.

(22) Notwithstanding the provisions of paragraph (d)(21) of this section, this frequency may be used by any licensees in the Public Safety Pool without a separate license for the purpose of operating self-powered vehicle detectors for traffic control and safety purposes, on a secondary basis, in accordance with § 90.269.

(23) This frequency is reserved for assignment only to national organizations eligible for disaster relief operations under paragraph (a)(2)(vii) of this section.

(24) Assignment and use of frequencies in the band 72–76 MHz are governed by § 90.257 for operational-fixed stations and by § 90.241 for emergency call box operations. Specific frequencies are listed at § 90.257(a)(1).

(25) This frequency is available to Public Safety Pool licensees for fire call box operations on a shared basis in Industrial/Business Pool. All communications on this frequency must be conducted with persons or organizations charged with specific fire protection responsibility. All operations on

this frequency are subject to the provisions of § 90.257(b).

(26) Assignment of frequencies in this band are subject to the provisions of § 90.173. Licensees as of August 18, 1995 who operate systems in the 150–170 MHz band that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

(27) This frequency will be assigned with an authorized bandwidth not to exceed 11.25 kHz. In the 450–470 MHz band, secondary telemetry operations pursuant to § 90.238(e) will be authorized on this frequency.

(28) This frequency is not available for assignment in this service in Puerto Rico or the Virgin Islands.

(29) This frequency is removed by 22.5 kHz from frequencies assigned to other radio services. Utilization of this frequency may result in, as well as be subject to, interference under certain operating conditions. In considering the use of this frequency, adjacent channel operations should be taken into consideration. If interference occurs, the licensee may be required to take the necessary steps to resolve the problem. See § 90.173(b).

(30) This frequency will be authorized a channel bandwidth of 25 kHz.

(31) The maximum output power of any transmitter authorized to operate on this frequency shall not exceed 100 watts. Stations authorized prior to July 15, 1992 for fixed operations will be permitted to continue such operations, but at a maximum transmitter power output of 10 watts.

(32) The maximum effective radiated power (ERP) may not exceed 20 watts for fixed stations and 2 watts for mobile stations. The height of the antenna system may not exceed 15.24 meters (50 ft.) above ground. All such operation is on a secondary basis to adjacent channel land mobile operations.

(33) For FM transmitters, the sum of the highest modulating frequency in Hertz and the amount of the frequency deviation or swing in Hertz may not exceed 2800 Hz and the maximum deviation may not exceed 2.5 kHz. For AM transmitters, the highest modulation frequency may not exceed 2000 Hz. The carrier frequency must be maintained

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within .0005 percent of the center of the frequency band, and the authorized bandwidth may not exceed 6 kHz.

(34) This frequency is available on a shared basis with the Industrial/Business Pool for remote control and telemetry operations.

(35) Operational fixed stations must employ directional antennas having a front-to-back ratio of at least 20 dB. Omnidirectional antennas having unity gain may be employed for stations communicating with at least three receiving locations separated by 160 degrees of azimuth.

(36) The maximum power output of the transmitter may not exceed 50 watts for fixed stations and 1 watt for mobile stations. A1A, A1D, A2B, A2D, F1B, F1D, F2D, G1B, G1D, G2B, or G2D emission may be authorized.

(37) Use of this frequency is limited to stations located at least 120.7 km (75 miles) from the center of any urbanized area of 200,000 or more population (U.S. Census of Population 1970). Operation is on a secondary basis to licensees of the Industrial/Business Pool.

(38) [Reserved]

(39) In addition to other authorized uses, the use of F1B, F1D, F2B or F2D emission is permitted on this frequency for the operation of biomedical telemetry systems except in the following geographic locations:

(i) New York, N.Y.-Northeastern New Jersey; Los Angeles-Long Beach, Calif.; Chicago, Ill.-Northwestern Indiana; Philadelphia, Pa.-N.J.; Detroit, Mich.; San Francisco-Oakland, Calif.; Boston, Mass.; Washington, D.C.-Md.-Va.; Cleveland, Ohio; St. Louis, Mo.-Ill.; Pittsburgh, Pa.; Minneapolis-St. Paul, Minn.; Houston, Tex.; Baltimore, Md.; Dallas, Tex.; Milwaukee, Wis.; Seattle-Everett, Wash.; Miami, Fla.; San Diego, Calif.; Atlanta, Ga.; Cincinnati, Ohio-Ky.; Kansas City, Mo.-Kans.; Buffalo, N.Y.; Denver, Colo.; San Jose, Calif.; New Orleans, La.; Phoenix, Ariz.; Portland, Oreg.-Wash.; Indianapolis, Ind.; Providence-Pawtucket-Warwick, R.I.-Mass.; Columbus, Ohio; San Antonio, Tex.; Louisville, Ky.-Ind.; Dayton, Ohio; Fort Worth, Tex.; Norfolk-Portsmouth, Va.; Memphis, Tenn.-Miss.; Sacramento, Calif.; Fort Lauderdale-Hollywood, Fla.; Rochester, N.Y.; Tampa-St. Petersburg, Fla.;

(ii) The continuous carrier mode of operation may be used for telemetry transmissions on this frequency for periods up to two-minutes duration; following which there must be a break in the carrier for at least a one-minute period; and

(iii) Geographical coordinates for the above-listed urbanized areas may be found at Table 1 of § 90.635.

(40) This frequency may be designated by common consent as an intersystem mutual assistance frequency under an area-wide medical communications plan.

(41) This frequency is available nationwide for use in police emergency communications networks operated under statewide law enforcement emergency communications plans.

(42) This frequency may not be assigned within 161 km (100 miles) of New Orleans, La. (coordinates 29°56'53" N and 90°04'10" W).

(43) [Reserved]

(44) This frequency will be assigned with an authorized bandwidth not to exceed 6 kHz.

(45) Operations on this frequency are limited to 30 watts transmitter output power.

(46) This frequency is shared with the Industrial/Business Pool in Puerto Rico and the Virgin Islands.

(47) This frequency may be assigned to stations in the Public Safety Pool in accordance with the provisions of § 90.265.

(48) Frequencies in this band will be assigned only for transmitting hydrological or meteorological data or for low power wireless microphones in accordance with the provisions of § 90.265.

(49) This frequency may be assigned only for forest firefighting and conservation activities in accordance with the provisions of § 90.265.

(50)–(51) [Reserved]

(52) In addition to agencies responsible for forest fire prevention, detection, and suppression, this frequency may be assigned to conservation agencies which do not have forest fire responsibilities on a secondary basis to any U.S. Government stations, *Provided*, That such assignment is necessary to permit mobile relay operation by such agencies.

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(53) This frequency is subject to the provisions of paragraph (e)(6) of this section.

(54) For FM transmitters, the sum of the highest modulating frequency in hertz and the amount of the frequency deviation or swing in hertz may not exceed 1700 Hz and the maximum deviation may not exceed 1.2 kHz. For AM transmitters, the highest modulating frequency may not exceed 1200 Hz. The carrier frequency must be maintained within .0005 percent of the center of the frequency band, and the authorized bandwidth may not exceed 3 kHz.

(55) Subpart T of this part contains rules for assignment of frequencies in the 220-222 MHz band.

(56) The frequencies available for use at fixed stations in this band and the requirements for assignment are set forth in § 90.261. Operation on these frequencies is secondary to stations in the Industrial/Business Pool where they are assigned for land mobile operations.

(57) This frequency is available for systems first licensed prior to August 18, 1995. No new systems will be authorized after August 18, 1995, but prior authorized systems may be modified, expanded, and renewed.

(58) This frequency is available for systems first licensed prior to March 31, 1980, for radio call box communications related to safety on highways in accordance with the provisions of § 90.241(c). No new systems will be authorized of this nature, but systems authorized prior to March 31, 1980 may be modified, expanded, and renewed.

(59) The continuous carrier mode of operation may be used for telemetry transmission on this frequency.

(60) Paging licensees as of March 20, 1991, may continue to operate on a primary basis until January 14, 1998.

(61) Highway radio call box operations first licensed prior to March 31, 1980 on this frequency may continue to operate in accordance with paragraph (d)(58) of this section.

(62) This frequency is also authorized for use by biomedical telemetry stations. F1B, F1D, F2B, F2D, F3E, G1B, G1D, G2B, G2D, and G3E emissions may be authorized for biomedical transmissions.

(63) Available for medical services mobile operations in the Public Safety Pool in accordance with paragraph (d)(61) of this section.

(64) Use of this frequency is on a secondary basis, limited to 2 watts output power and subject to the provisions of 90.267(h)(1), (h)(2), (h)(3), and (h)(4).

(65) This frequency is primarily authorized for use in the dispatch of medical care vehicles and personnel for the rendition or delivery of medical services. This frequency may also be assigned for intra-system and inter-system mutual assistance purposes. For uniformity in usage these frequency pairs may be referred to by channel name as follows:

Frequencies base and mobile (megahertz)	Mobile only (MHz)	Channel name
462.950	467.950	MED-9
462.95625	467.95625	MED-91
462.9625	467.9625	MED-92
462.96875	467.96875	MED-93
462.975	467.975	MED-10
462.98125	467.98125	MED-101
462.9875	467.9875	MED-102
462.99375	467.99375	MED-103

(66) For applications for new radio systems, the thirty-two frequency pairs listed in paragraph (d)(66)(i) of this section will be assigned in a block for shared operation under § 90.20(a)(1)(iii) or § 90.20(a)(2)(xiii) subject to the following:

(i) For uniformity in usage, these frequency pairs may be referred to by channel name as follows:

Frequencies base and mobile (megahertz)	Mobile only (MHz)	Channel name
463.000	468.000	MED-1
463.00625	468.00625	MED-11
463.0125	468.0125	MED-12
463.01875	468.01875	MED-13
463.025	468.025	MED-2
463.03125	468.03125	MED-21
463.0375	468.0375	MED-22
463.04375	468.04375	MED-23
463.050	468.050	MED-3
463.05625	468.05625	MED-31
463.0625	468.0625	MED-32
463.06875	468.06875	MED-33
463.075	468.075	MED-4
463.08125	468.08125	MED-41
463.0875	468.0875	MED-42
463.09375	468.09375	MED-43
463.100	468.100	MED-5
463.10625	468.10625	MED-51
463.1125	468.1125	MED-52
463.11875	468.11875	MED-53
463.125	468.125	MED-6
463.13125	468.13125	MED-61
463.1375	468.1375	MED-62
463.14375	468.14375	MED-63

Frequencies base and mobile (megahertz)	Mobile only (MHz)	Channel name
463.150	468.150	MED-7
463.15625	468.15625	MED-71
463.1625	468.1625	MED-72
463.16875	468.16875	MED-73
463.175	468.175	MED-8
463.18125	468.18125	MED-81
463.1875	468.1875	MED-82
463.19375	468.19375	MED-83

(ii) Except as provided in paragraphs (d)(66)(iv) and (v) of this section, mobile or portable stations licensed prior to July 6, 2000, must employ equipment that is both wired and equipped to transmit/receive, respectively, on each of the following MED frequency pairs with transmitters operated on the 468 MHz frequencies: MED-1, MED-2, MED-3, MED-4, MED-5, MED-6, MED-7, and MED-8.

(iii) Except as provided in paragraphs (d)(66)(v) and (vi) of this section, mobile or portable stations licensed on or after July 6, 2000, must employ equipment that is both wired and equipped to transmit/receive, respectively, on each of the following MED frequency pairs with transmitters operated on the 468 MHz frequencies: MED-1, MED-12, MED-2, MED-22, MED-3, MED-32, MED-4, MED-42, MED-5, MED-52, MED-6, MED-62, MED-7, MED-72, MED-8, and MED-82.

(iv) Except as provided in paragraphs (d)(66)(v) and (vi) of this section, mobile or portable stations licensed on or after January 1, 2006, must employ equipment that is both wired and equipped to transmit/receive, respectively, on each of these MED frequency pairs with transmitters operated on the 468 MHz frequencies.

(v) Portable (hand-held) units operated with a maximum output power of 2.5 watts are exempted from the multi-channel equipment requirements specified in paragraphs (d)(66)(ii), (d)(66)(iii), and (d)(66)(iv) of this section.

(vi) Stations located in areas above line A, as defined in §90.7 will be required to meet multi-channel equipment requirements only for those frequencies up to the number specified in paragraphs (d)(66)(ii), (d)(66)(iii), and (d)(66)(iv) of this section that have been assigned and coordinates with Canada in accordance with the applicable U.S.-Canada agreement.

(67) This frequency is authorized for use only for operations in biomedical telemetry stations. F1B, F1D, F2B, F2D, F3E, G1B, G1D, G2B, G2D and G3E emissions may be authorized. Entities eligible in the Public Safety Pool may use this frequency on a secondary basis for any other permissible communications consistent with §90.20(a)(1)(iii) or §90.20(a)(2)(xiii).

(68) Subpart L of this part contains rules for assignment of frequencies in the 470–512 MHz band.

(69) Subpart S of this part contains rules for assignment of frequencies in the 806–817 MHz and 851–862 MHz bands.

(70) Assignment of frequencies above 928 MHz for operational-fixed stations is governed by part 101 of this chapter.

(71) Frequencies in this band are available only for one-way paging operations in accordance with §90.494.

(72) This frequency band is available to stations in this service subject to the provisions of §90.259.

(73) Available only on a shared basis with stations in other services, and subject to no protection from interference due to the operation of industrial, scientific, or medical (ISM) devices. In the band 2483.5–2500 MHz, no applications for new stations or modification to existing stations to increase the number of transmitters will be accepted. Existing licensees as of July 25, 1985, and licensees whose initial applications were filed on or before July 25, 1985, are grandfathered and their operations are on a co-primary basis with the mobile-satellite and radiodetermination-satellite services, and in the segment 2495–2500 MHz, their operations are also on a co-primary basis with part 27 fixed and mobile except aeronautical mobile service operations.

(74) This band is available for Digital Termination Systems and for associated internodal links in the Point-to-Point Microwave Radio Service. No new licenses will be issued under this subpart but current licenses will be renewed.

(75) Appropriate frequencies in the band 2000–3000 kHz which are designated in part 80 of this chapter as available to Public Ship Stations for telephone communications with Public Coast Stations may be assigned on a secondary basis to fixed Stations in the

Public Safety Pool for communication with Public Coast Stations only, provided such stations are located in the United States and the following conditions are met:

(i) That such fixed station is established pursuant to the eligibility provisions of (§90.47) and that the isolated area involved is an island or other location not more than 480 km (300 statute miles) removed from the desired;

(ii) That evidence is submitted showing that an arrangement has been made with the coast station licensee for the handling of emergency communications permitted by §80.453 of this chapter and §90.20(a)(2)(x)(C); and

(iii) That operation of the Public Safety fixed station shall at no time conflict with any provision of part 80 of this chapter and further, that such operation in general shall conform to the practices employed by Public Ship Stations for radiotelephone communication with the same Public Coast Station.

(76) This frequency is authorized only for communications between medical facilities vehicles and personnel related to medical supervision and instruction for the treatment and transport of patients in the rendition or delivery of medical services. F1B, F1D, F2B, F2D, G1B, G1D, G2B, F3E and G3E emissions are authorized. Public Safety entities may use this frequency on a secondary basis for any other permissible communications consistent with §90.20(a)(1)(iii) or §90.20(a)(2)(xiii).

(77) Subpart R of this part contains rules for assignment of channels in the 758–775 MHz and 788–805 MHz bands.

(78) Paging operations are not permitted on this frequency.

(79) This frequency will be secondary to marine port operations within 161 km (100 miles) of Los Angeles, Calif. (coordinates 34°03'15" N and 118°14'28" W).

(80) After December 7, 2000 this frequency is available primarily for public safety interoperability only communications. Stations licensed prior to December 7, 2000 may continue to use this frequency on a co-primary basis until January 1, 2005. After January 1, 2005, all operations will be secondary to co-channel interoperability communications. Analog FM emission shall

exclusively be used for operation on the VHF and UHF interoperability channels.

(81) After December 7, 2000 new stations will only be licensed with an authorized bandwidth not to exceed 1125 kHz. Licensees authorized prior to December 7, 2000 may continue to use bandwidths wider than 1125 kHz on a co-primary basis until January 1, 2005. After January 1, 2005, all stations operating with an authorized bandwidth greater than 11.25 kHz will be secondary to adjacent channel interoperability operations.

(82) This frequency is reserved for assignment only in support of, and on a secondary basis to, nationwide interoperability use.

(83) This interoperability frequency is dedicated for the express purpose of nationwide interoperability calling.

(84) Operation on this frequency is subject to the low power provisions of §90.267. This frequency is assigned to the Public Safety Group in the low power pool.

(85) Subpart Y of this part contains rules for assignment of frequencies in the 4940–4990 MHz band.

(86) Subpart M of this part contains rules for assignment of frequencies in the 5850–5925 MHz band.

(87) The use of the frequencies 150.775 MHz and 150.790 MHz are limited to a transmitter output power of 100 watts Effective Radiated Power (ERP) as of May 27, 2005.

(88) Use of this frequency is limited to stations licensed as of May 27, 2005.

(89) As of March 25, 2007, the FCC will cease to issue licenses for new stations in the fixed and mobile services in the following bands: 5900–5950 kHz, 7300–7350 kHz and 9400–9500 kHz. As of March 29, 2009, the FCC will cease to issue licenses for new stations in the fixed and mobile services in the band 7350–7400 kHz and, in the U.S. Pacific insular areas in Region 3, the band 7400–7450 kHz. Stations licensed as of March 25, 2007 in the bands 5900–5950 kHz, 7300–7350 kHz and 9400–9500 kHz and as of March 29, 2009 for the band 7350–7400 kHz in Region 2 and the band 7350–7450 kHz in Region 3 shall:

(1) Be limited to communications only within the United States and its insular areas;

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(2) Not cause harmful interference to the broadcasting service;

(3) Be limited to the minimum power needed to achieve communications; and

(4) Take account of the seasonal use of frequencies by the broadcasting service published in accordance with Article 12 of the ITU *Radio Regulations*.

(90) The maximum effective radiated power (ERP) may not exceed 2 watts for mobile stations, and 5 watts for mobile repeater stations and hand-carried transmitters that communicate directly with mobile repeater stations.

(91) This frequency is available on a shared basis both for remote control and telemetry operations and for mobile repeater operations. The authorized bandwidth may not exceed 11.25 kHz.

(92) This frequency is available on a shared basis with the Industrial/Business Pool for remote control and telemetry operations. Licensees seeking primary status for the use of this frequency for mobile repeater stations and hand-carried transmitters that communicate directly with mobile repeater stations must describe the area of normal day-to-day operations either in terms of operation in a specific county or in the terms of maximum distance from a geographic center (latitude and longitude) and shall be subject to the frequency coordination requirements of § 90.175.

(93) Mobile repeaters operating on this frequency are subject to a channel loading requirement of 50 transmitter-receivers. Loading standards will be applied in terms of the number of units actually in use or to be placed in use within 8 months following authorization. A licensee will be required to show that an assigned frequency is at full capacity before it may be assigned a second or additional frequency. Channel capacity may be reached either by the requirements of a single licensee or by several users sharing a channel. Until a channel is loaded to capacity it will be available for assignment to other users in the same area.

(e) *Additional frequencies available.* In addition to the frequencies shown in the frequency table of this section, the following frequencies are available in this service. (See also § 90.253.)

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(1) Substitution of frequencies available below 25 MHz may be made in accordance with the provisions of § 90.263.

(2) Frequencies in the band 73.0–74.6 MHz may be assigned to stations authorized their use on or before December 1, 1961, but no new stations will be authorized in this band, nor will expansion of existing systems be permitted. See also § 90.257.

(3) [Reserved]

(4) Frequencies in the 421–430 MHz band are available in the Detroit, Mich., Cleveland, Ohio and Buffalo, N.Y. areas in accordance with the rules in §§ 90.273 through 90.281.

(5) A Police licensee may use transmitters on the frequencies indicated below in connection with official police activities without specific authorization from the Commission, provided that such use shall be on a secondary basis and shall not cause harmful interference to services of other licensees operating on regularly assigned frequencies, and further provided that all such use complies with the requirements of Federal, State and local laws. The provisions of § 90.429 shall not apply to transmitters authorized under this paragraph. To be eligible for operations in this manner, the transmitter must comply with all of the following requirements.

(i) In accordance with §§ 90.203 and 2.803 of this chapter, the transmitter must be of a type which has been certificated by the Commission.

(ii) The carrier frequency shall be within the bands listed below and must be maintained within 0.005 percent of the frequency of operation. Use on assigned channel center frequencies is not required.

30.85–30.87 MHz	31.49–31.51 MHz
30.89–30.91 MHz	31.53–31.55 MHz
30.93–30.95 MHz	31.57–31.59 MHz
30.97–30.99 MHz	31.61–31.63 MHz
31.01–31.03 MHz	31.65–31.67 MHz
31.05–31.07 MHz	31.69–31.71 MHz
31.09–31.11 MHz	31.73–31.75 MHz
31.13–31.15 MHz	31.77–31.79 MHz
31.17–31.19 MHz	31.81–31.83 MHz
31.21–31.23 MHz	31.85–31.87 MHz
31.25–31.27 MHz	31.89–31.91 MHz
31.29–31.31 MHz	31.93–31.95 MHz
31.33–31.35 MHz	31.97–32.00 MHz
31.37–31.39 MHz	33.00–33.03 MHz
31.41–31.43 MHz	33.05–33.07 MHz
31.45–31.47 MHz	33.41–34.00 MHz

37.00–37.43 MHz	154.635–155.195 MHz
37.89–38.00 MHz	155.415–156.250 MHz
39.00–40.00 MHz	158.715–159.465 MHz
42.00–42.91 MHz	453.0125–453.9875 MHz
44.61–45.91 MHz	458.0125–458.9875 MHz
45.93–45.95 MHz	460.0125–460.5125 MHz
45.97–45.99 MHz	460.5625–460.6375 MHz
46.01–46.03 MHz	462.9375–462.9875 MHz
46.05–46.60 MHz	465.0125–465.5125 MHz
47.00–47.41 MHz	465.5625–465.6375 MHz
150.995–151.490 MHz	467.9375–467.9875 MHz
153.740–154.445 MHz	

(iii) The emitted signal shall be non-voice modulation (type PO emission).

(iv) The maximum occupied bandwidth, containing 99 percent of the radiated power, shall not exceed 2.0 kHz.

(v) The transmitter output power shall not exceed a mean power of 30 mW nor shall any peak exceed 1 watt peak power, as measured into a 50 ohm resistive load. Should the transmitter be supplied with a permanently attached antenna or should the transmitter and antenna combination be contained in a sealed unit, the following standard may be used in lieu of the above: the field strength of the fundamental signal of the transmitter and antenna combination shall not exceed 0.4 V/m mean or 2.3 V/m peak when measured at a distance of 3 meters.

(vi) The transmitter shall contain positive means to limit the transmission time to no more than 10 days. In the event of a malfunction of this positive means, the transmitter signal shall cease. The use of battery life to accomplish the transmission time limitation is permissible.

(6) The frequency 173.075 MHz is available for stolen vehicle recovery systems on a shared basis with Federal stations in the fixed and mobile services.

(i) Stolen vehicle recovery systems are limited to tracking and recovering vehicles, cargo, and hazardous materials that have been reported stolen or missing; missing or wanted persons; and individuals at risk, or individuals of interest to law enforcement, only when established boundaries are violated. Stolen vehicle recovery systems are not authorized for general purpose tracking or monitoring. Mobile units may also transmit automatic collision notifications, vehicle fire notifications, and carjacking alerts.

(ii) Any type of emission may be used within a maximum authorized bandwidth of 12.5 kHz, except that stations that operate as part of a stolen vehicle recovery system that was authorized and in operation prior to May 27, 2005 may operate with a maximum authorized bandwidth of 20 kHz until May 27, 2019. For a complete listing of emission symbols allowable under this part, see § 2.201 of this chapter.

(iii) Mobile transmitters operating on this frequency with emissions authorized in a maximum bandwidth of 12.5 kHz are limited to 5.0 watts power output. Mobile transmitters operating on this frequency with emissions authorized in a maximum bandwidth of 20 kHz are limited to 2.5 watts power output.

(iv) Base station transmitters operating on this frequency with emissions authorized in a maximum bandwidth of 12.5 kHz are limited to 300 watts ERP before February 18, 2009, and 500 watts ERP thereafter. Base station transmitters operating on this frequency with emissions authorized in a maximum bandwidth of 20 kHz are limited to 300 watts ERP.

(v) Transmissions from mobiles shall be limited to 400 milliseconds for every 10 seconds, except when a vehicle is being tracked actively transmissions are limited to 400 milliseconds for every second. Alternatively, transmissions from mobiles shall be limited to 7200 milliseconds for every 300 seconds with a maximum of six such messages in any 30 minute period.

(vi) Transmissions from base stations shall be limited to a total rate of five seconds every minute.

(vii) Any entity eligible to hold authorizations in the Public Safety Pool in accordance with §§ 90.20(a) and 90.111 of this chapter is authorized by this rule to operate mobile transmitters on this frequency. No license will be issued for mobile transmitters.

(viii) Applications for base stations operating on this frequency shall require coordination with the Federal Government. Applicants shall perform an analysis for each base station that is located within 169 km (105 miles) of a TV Channel 7 transmitter of potential interference to TV Channel 7 viewers. Applicants shall serve a copy of

the analysis to the licensee of the affected TV Channel 7 transmitter upon filing the application with the Commission. Such base stations will be authorized if the applicant has limited the interference contour to include fewer than 100 residences or if the applicant:

(A) Shows that the proposed site is the only suitable location (which, at the application stage, requires a showing that the proposed site is especially well-suited to provide the proposed service);

(B) Develops a plan to control any interference caused to TV reception from operations; and

(C) Agrees to make such adjustments in the TV receivers affected as may be necessary to eliminate interference caused by its operations.

(ix) The licensee must eliminate any interference caused by its operation to TV Channel 7 reception within 30 days after notification in writing by the Commission. If this interference is not removed within this 30-day period, operation of the base station must be discontinued. The licensee is expected to help resolve all complaints of interference.

(7) Frequencies governed by § 90.35(c)(17).

(f) *Limitation on number of frequencies assignable.* Normally only two frequencies or pairs of frequencies in the paired frequency mode of operation will be assigned for mobile service operations by a single applicant in a given area. The assignment of an additional frequency or pair of frequencies will be made only upon a satisfactory showing of need, except that:

(1) Additional frequencies above 25 MHz may be assigned in connection with the operation of mobile repeaters in accordance with § 90.247 notwithstanding this limitation;

(2) The frequency 39.06 MHz may be assigned notwithstanding this limitation;

(3) Frequencies in the 25–50 MHz, 150–170 MHz, 450–512 MHz and 902–928 MHz bands may be assigned for the operation of Location and Monitoring Service (LMS) systems in accordance with the provisions of subpart M of this part, notwithstanding this limitation;

(4) A licensee of a radio station in this service may operate radio units for the purpose of determining distance, direction, speed, or position by means of a radiolocation device on any frequency available for radiolocation purposes without additional authorization from the Commission, provided type accepted equipment or equipment authorized pursuant to § 90.203(b)(4) and (b)(5) of this part is used, and all other rule provisions are satisfied. A licensee in this service may also operate, subject to all of the foregoing conditions and on a secondary basis, radio units at fixed locations and in emergency vehicles that transmit on the frequency 24.10 GHz, both unmodulated continuous wave radio signals and modulated FM digital signals for the purpose of alerting motorists to hazardous driving conditions or the presence of an emergency vehicle. Unattended and continuous operation of such transmitters will be permitted.

(5) A Police licensee may use, without special authorization from the Commission, any mobile service frequency between 40 and 952 MHz, listed in paragraph (c)(3) of this section, for communications in connection with physical surveillance, stakeouts, raids, and other such activities. Such use shall be on a secondary basis to operations of licensees regularly authorized on the assigned frequencies. The maximum output power that may be used for such communications is 2 watts. Transmitters, operating under this provision of the rules, shall be exempted from the station identification requirements of § 90.425. Use of frequencies not designated by a “PP” in the coordinator column of the frequency table in paragraph (c)(3) of this section, is conditional on the approval of the coordinator corresponding to each frequency. Spread spectrum transmitters may be operated on Public Safety Pool frequencies between 37 and 952 MHz, providing that they are certificated by the Commission under the provisions of § 2.803 of this chapter and § 90.203, and meet the following conditions:

(i) Frequency hopping transmitters can be operated, with a maximum output power of 2 watts, on any Public Safety Pool frequency between 37 and 952 MHz listed in paragraph (c)(3) of

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this section. At least 20 hopping frequencies shall be used and the average time of occupancy on any frequency shall not be greater than $\frac{1}{10}$ second in every 2 seconds;

(ii) Use of spread spectrum transmitters under paragraph (f)(4) of this section is subject to approval by the applicable frequency coordinator of the radio services of the district in which the license and equipment are to be used; and

(iii) The use of direct sequence spread spectrum equipment is also permitted. Equipment must meet the technical standards of §15.247 of this chapter.

(6) In addition to the frequencies assigned for mobile service operation, one base station frequency above 152 MHz may be assigned as a common frequency to all licensees in a particular area to permit intersystem communication between base stations or mobile stations or both. This frequency use will not be authorized in any area where all available frequencies are required for independent systems.

(7) A licensee may use, without a specific authorization from the Commission, transmitters on the frequencies indicated below in connection with wildlife tracking and/or telemetry and in connection with official forestry-conservation activities, provided that such use shall be on a secondary basis and shall not cause harmful interference to services of other licensees operating on regularly assigned frequencies. The provisions of §§90.203, 90.425, and 90.429 shall not apply to transmitters complying with this paragraph. To be eligible for operations in this manner, the transmitter must comply with all of the following requirements.

(i) The carrier frequency shall be within the bands listed below. The carrier frequency must be maintained within 0.005 percent of the frequency of operation.

Use on assigned channel center frequencies is not required.

(MHz)	
31.17 to 31.19	31.37 to 31.39
31.21 to 31.23	31.41 to 31.43
31.25 to 31.27	31.45 to 31.47
31.29 to 31.31	31.49 to 31.51
31.33 to 31.35	31.53 to 31.55

31.57 to 31.59	44.67 to 44.69
31.61 to 31.63	44.71 to 44.73
31.65 to 31.67	44.75 to 44.77
31.69 to 31.71	44.79 to 44.81
31.73 to 31.75	44.83 to 44.85
31.77 to 31.79	44.87 to 44.89
31.81 to 31.83	44.91 to 44.93
31.85 to 31.87	44.95 to 44.97
31.89 to 31.91	44.99 to 45.01
31.93 to 31.95	45.03 to 45.05
31.97 to 31.99	151.145 to 151.475
44.63 to 44.65	159.225 to 159.465

(ii) The emitted signal shall be non-voice modulation (A1D, A2D, F1D, or F2D emission).

(iii) The maximum occupied bandwidth, containing 99 percent of the radiated power, shall not exceed 0.25 kHz.

(iv) The transmitter output power shall not exceed a mean power of 5 mW nor shall any peak exceed 100 mW peak power, as measured into a permanently attached antenna; or if the transmitter and antenna combination are contained in a sealed unit, the field strength of the fundamental signal of the transmitter and antenna combination shall not exceed 0.29 V/m mean or 1.28 V/m peak when measured at a distance of 3 meters.

(v) The requirements of §90.175 regarding frequency coordination apply.

(8) An additional frequency may be assigned for paging operations from those frequencies available under paragraph (d)(13) of this section.

(9) The frequency 155.340 MHz may be assigned as an additional frequency when it is designated as a mutual assistance frequency as provided in paragraph (d)(40) of this section.

(10) Additional frequencies may be assigned for fixed station operations.

(11) The assignment of an additional frequency or frequencies may be authorized notwithstanding this limitation for common, intra-county, intra-fire-district, or intrastate fire coordination operations. The frequency or frequencies requested must be in accordance with a frequency utilization plan, for the area involved, on file with the Commission.

(g) *Former public correspondence working channel in the maritime VHF (156-162 MHz) band allocated for public safety use in 33 inland Economic Areas.* (1) We define service areas in the marine VHF (156-162 MHz) band by forty-two geographic areas called VHF Public Coast

Service Areas (VPCSAs). See § 80.371(c)(1)(ii) of this chapter (Public correspondence frequencies). VPCSAs are based on, and composed of one or more of, the U.S. Department of Commerce's 172 Economic Areas (EAs). See 60 Fed Reg. 13114 (Mar. 10, 1995). Maps of the EAs and VPCSAs are available for inspection through the Federal Communications Commission's Reference Information Center. These maps and data are also available on the FCC website at <https://www.fcc.gov/oet/info/maps/areas/>. We number public correspondence channels in the maritime VHF (156–162 MHz) band as channels 24 to 28 and channels 84 to 88. Each channel number represents a channel pair. See § 80.371(c) of this chapter.

(2) In VHF Public Coast Service Areas (VPCSAs) 10–42, the duplex channel pair 157.250 MHz/161.850 MHz (VHF Maritime Channel 25) is allocated for public safety use by entities eligible for licensing under paragraph (a) of this section, and is designated primarily for the purpose of interoperability communications. See 47 CFR 80.371(c)(1)(ii) for the definitions of VPCSAs.

(i) The channel pair 157.250 MHz/161.850 MHz was formerly allocated and assigned (under § 80.371(c) (1997) of this chapter) as a public correspondence working channel in the maritime VHF 156–162 MHz band, and was also shared (under former § 90.283 (1997) of this chapter) with private land mobile stations, including grandfathered public safety licensees. Thus, there are grandfathered licensees nationwide (maritime and private land mobile radio stations, including by rule waiver) operating on this channel both inside and outside of VPCSAs 10–42.

(ii) The channel pairs 157.225 MHz/161.825 MHz and 157.275 MHz/161.875 MHz were formerly allocated and assigned under this section as public safety interoperability channels but were re-allocated for assignment as VHF public coast station channels under § 80.371(c) of this chapter. Public safety operations licensed on these channels as of March 2, 2009 or licensed pursuant to an application filed prior to September 19, 2008, may remain authorized to operate on the channels on a primary basis until March 2, 2024.

(3) All applicants and licensees under this paragraph must comply with the relevant technical sections under this part unless otherwise stated in this paragraph (g) of this section using the following standards and procedures:

(i) Provide evidence of frequency coordination in accordance with § 90.175. Public safety coordinators except the Special Emergency Coordinator are certified to coordinate applications for the channel pair 157.250 MHz/161.850 MHz (*i.e.*, letter symbol PX under paragraph (c)(2) of this section).

(ii) Station power, as measured at the output terminals of the transmitter, must not exceed 50 Watts for base stations and 20 Watts for mobile stations, except in accordance with the provisions of paragraph (g)(3)(vi) of this section. Antenna height (HAAT) must not exceed 122 meters (400 feet) for base stations and 4.5 meters (15 feet) for mobile stations, except in accordance with paragraph (g)(3)(vi) of this section. Antenna height (HAAT) must not exceed 122 meters (400 feet) for base stations and 4.5 meters (15 feet) for mobile stations, except in accordance with paragraph (g)(3)(vi) of this section. Such base and mobile channels shall not be operated on board aircraft in flight.

(iii) Frequency protection must be provided to other stations in accordance with the following guidelines for each channel and for each area and adjacent area:

(A) Protect coast stations licensed prior to July 6, 1998, by the required separations shown in Table C below.

(B) Protect stations described in paragraph (g)(2)(i) of this section, by frequency coordination in accordance § 90.175 of this part.

(C) Protect public safety stations granted under paragraph (g) of this section by frequency coordination in accordance with § 90.175 of this part.

(D) *Where the Public safety designated channel is not a Public safety designated channel in an adjacent VPCSA:* Applicants shall engineer base stations such that the maximum signal strength at the boundary of the adjacent VPCSA does not exceed 5dBuV/m.

(iv) The following table, along with the antenna height (HAAT) and power (ERP), must be used to determine the

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minimum separation required between proposed base stations and co-channel public coast stations licensed prior to July 6, 1998 under part 80 of this chap-

ter. Applicants whose exact ERP or HAAT are not reflected in the table must use the next highest figure shown.

TABLE C—REQUIRED SEPARATION IN KILOMETERS (MILES) OF BASE STATION FROM PUBLIC COAST STATIONS

Base Station Characteristics					
HAAT	ERP (watts)				
Meters (feet)	400	300	200	100	50
15 (50)	138 (86)	135 (84)	129 (80)	129 (80)	116 (72)
30 (100)	154 (96)	151 (94)	145 (90)	137 (85)	130 (81)
61 (200)	166 (103)	167 (104)	161 (100)	153 (95)	145 (90)
122 (400)	187 (116)	177 (110)	183 (114)	169 (105)	159 (99)

(v) In the event of interference, the Commission may require, without a hearing, licensees of base stations authorized under this section that are located within 241 kilometers (150 miles) of a co-channel public coast, I/LT, or grandfathered public safety station licensed prior to July 6, 1998, or an international border, to reduce power, decrease antenna height, and/or install directional antennas.

Mobile stations must be operated only within radio range of their associated base station.

(vi) Applicants seeking to be licensed for stations exceeding the power/antenna height limits of the table in paragraph (g)(3)(iv) of this section must request a waiver of that paragraph and must submit with their application an interference analysis, based upon an appropriate, generally-accepted terrain-based propagation model, that shows that co-channel protected entities, described in paragraph (g)(3)(iii) of this section, would receive the same or greater interference protection than the relevant criteria out-

lined in paragraph (g)(3)(iii) of this section.

(h) *Spectrum leasing arrangements.* Notwithstanding any other provisions of this section to the contrary, licensees in the Public Safety Radio Services (see part 90, subpart B) may enter into spectrum leasing arrangements (see part 1, subpart X of this chapter) with entities providing communications in support of public safety operations.

(i) *Nationwide interoperability channels.* The nationwide interoperability and mutual aid channels are listed below for the VHF, (including 220–222 MHz), UHF, 700 MHz and 800 MHz bands. (See §§90.20(d)(80), 90.531(b)(1), 90.617(a)(1) and 90.720). Any Part 90 public safety eligible entity holding a Part 90 license may operate hand-held and vehicular mobile units on these channels without needing a separate authorization. Base stations or control stations operating on these channels must be licensed separately: Encryption may not be used on any of the interoperability or mutual aid calling channels.

VHF interoperability channel (MHz)	Purpose
151.1375 MHz (base/mobile)	Tactical.
154.4525 MHz (base/mobile)	Tactical.
155.7525 MHz (base/mobile)	Calling.
158.7375 MHz (base/mobile)	Tactical.
159.4725 MHz (base/mobile)	Tactical.
VHF mutual aid channel (MHz)	Purpose
220.8025 MHz (base/mobile)	Tactical.
220.8075 MHz (base/mobile)	Tactical.
220.8125 MHz (base/mobile)	Tactical.
220.8175 MHz (base/mobile)	Tactical.
220.8225 MHz (base/mobile)	Tactical.

VHF mutual aid channel (MHz)	Purpose
220.8275 MHz (base/mobile)	Tactical.
220.8325 MHz (base/mobile)	Tactical.
220.8375 MHz (base/mobile)	Tactical.
220.8425 MHz (base/mobile)	Tactical.
220.8475 MHz (base/mobile)	Tactical.
UHF interoperability channel (MHz)	Purpose
453.2125 MHz (base/mobile)	Calling.
458.2125 MHz (mobile)	
453.4625 MHz (base/mobile)	Tactical.
458.4625 MHz (mobile)	
453.7125 MHz (base/mobile)	Tactical.
458.7125 MHz (mobile)	
453.8625 MHz (base/mobile)	Tactical.
458.8625 MHz (mobile)	
700 MHz interoperability channel (MHz)	Purpose
769.14375 MHz (base/mobile)	Tactical.
799.14375 MHz (mobile)	
769.24375 MHz (base/mobile)	Calling.
799.24375 MHz (mobile)	
769.39375 MHz (base/mobile)	Tactical.
799.39375 MHz (mobile)	
769.49375 MHz (base/mobile)	Tactical.
799.49375 MHz (mobile)	
769.64375 MHz (base/mobile)	Tactical.
799.64375 MHz (mobile)	
769.74375 MHz (base/mobile)	Tactical.
799.74375 MHz (mobile)	
769.99375 MHz (base/mobile)	Tactical.
799.99375 MHz (mobile)	
770.14375 MHz (base/mobile)	Tactical.
800.14375 MHz (mobile)	
770.24375 MHz (base/mobile)	Tactical.
800.24375 MHz (mobile)	
770.39375 MHz (base/mobile)	Tactical.
800.39375 MHz (mobile)	
770.49375 MHz (base/mobile)	Tactical.
800.49375 MHz (mobile)	
770.64375 MHz (base/mobile)	Tactical.
800.64375 MHz (mobile)	
770.89375 MHz (base/mobile)	Tactical.
800.89375 MHz (mobile)	
770.99375 MHz (base/mobile)	Tactical.
800.99375 MHz (mobile)	
773.00625 MHz (base/mobile)	Tactical.
803.00625 MHz (mobile)	
773.10625 MHz (base/mobile)	Tactical.
803.10625 MHz (mobile)	
773.25625 MHz (base/mobile)	Calling.
803.25625 MHz (mobile)	
773.35625 MHz (base/mobile)	Tactical.
803.35625 MHz (mobile)	
773.50625 MHz (base/mobile)	Tactical.
803.50625 MHz (mobile)	
773.60625 MHz (base/mobile)	Tactical.
803.60625 MHz (mobile)	
773.75625 MHz (base/mobile)	Tactical.
803.75625 MHz (mobile)	
773.85625 MHz (base/mobile)	Tactical.
803.85625 MHz (mobile)	
774.00625 MHz (base/mobile)	Tactical.
804.00625 MHz (mobile)	
774.10625 MHz (base/mobile)	Tactical.
804.10625 MHz (mobile)	
774.25625 MHz (base/mobile)	Tactical.
804.25625 MHz (mobile)	
774.35625 MHz (base/mobile)	Tactical.

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700 MHz interoperability channel (MHz)	Purpose
804.35625 MHz (mobile).	
774.50625 MHz (base/mobile)	Tactical.
804.50625 MHz (mobile).	
774.60625 MHz (base/mobile)	Tactical.
804.60625 MHz (mobile).	
774.85625 MHz (base/mobile)	Tactical.
804.85625 MHz (mobile).	
800 MHz mutual aid channel (MHz)	Purpose
851.0125 MHz (base/mobile)	Calling.
806.0125 MHz (mobile).	
851.5125 MHz (base/mobile)	Tactical.
806.5125 MHz (mobile).	
852.0125 MHz (base/mobile)	Tactical.
807.0125 MHz (mobile).	
852.5125 MHz (base/mobile)	Tactical.
807.0125 MHz (mobile).	
853.0125 MHz (base/mobile)	Tactical.
808.0125 MHz (mobile).	

[62 FR 18845, Apr. 17, 1997]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 90.20, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at www.govinfo.gov.

§ 90.22 Paging operations.

Unless specified elsewhere in this part, paging operations may be authorized in the Public Safety Pool on any frequency except those assigned under the provisions of § 90.20(d)(78). Paging operations on frequencies subject to § 90.20(d)(78) authorized before August 17, 1974, may be continued only if they do not cause harmful interference to regular operations on the same frequencies. Such paging operations may be renewed indefinitely on a secondary basis to regular operations, except within 125 km (75 mi) of the following urbanized areas:

Urbanized area	North latitude	West longitude
New York, NY-Northeastern NJ	40-45-06.4	73-59-37.5
Los Angeles-Long Beach, CA	34-03-15.0	118-14-31.3
Chicago, IL	41-52-28.1	87-38-22.2
Philadelphia, PA-NJ	39-56-58.4	75-09-19.6
Detroit, MI	42-19-48.1	83-02-56.7
San Francisco-Oakland, CA	37-46-38.7	122-24-43.9
Boston, MA	42-21-24.4	71-03-23.2
Washington, DC-MD-VA	38-53-51.4	77-00-31.9
Cleveland, OH	41-29-51.2	81-41-49.5
St Louis, MO-IL	38-37-45.2	90-12-22.4
Pittsburgh, PA	40-26-19.2	79-59-59.2
Minneapolis-St Paul, MN	44-58-56.9	93-15-43.8
Houston, TX	29-45-26.8	95-21-37.8

Urbanized area	North latitude	West longitude
Baltimore, MD	39-17-26.4	76-36-43.9
Dallas, TX	32-47-09.5	96-47-38.0
Milwaukee, WI	43-02-19.0	87-54-15.3
Seattle-Everett, WA	47-36-31.4	122-20-16.5
Miami, FL	25-46-38.4	80-11-31.2
San Diego, CA	32-42-53.2	117-09-24.1
Atlanta, GA	33-45-10.4	84-23-36.7
Cincinnati, OH-KY	39-06-7.2	84-30-34.8
Kansas City, MO-KS	39-04-56.0	94-35-20.8
Buffalo, NY	42-52-52.2	78-52-20.1
Denver, CO	39-44-58.0	104-59-23.9

[63 FR 68959, Dec. 14, 1998, as amended at 64 FR 36262, July 6, 1999; 65 FR 60874, Oct. 13, 2000]

§ 90.25 Non-Federal use of the Federal interoperability channels.

The Commission may authorize non-Federal licensees to operate mobile and portable radio units on the frequencies listed below in Tables 1 and 2, provided the applicant includes with its application to the Commission, written concurrence from the Statewide Interoperability Coordinator (SWIC) or state appointed official stating that the application conforms to the agreement with a federal agency with a valid assignment from the National Telecommunications and Information Administration.