input. Neither level shall exceed the desensitization criteria set forth in paragraph (c) of this section. Delta f = 108.1 − f_1, where f_1 is the frequency of N_1, the VHF FM sound broadcasting signal closer to 108.1 MHz.

[69 FR 32881, June 14, 2004]

Subpart E—Frequencies

§ 87.169 Scope.

This subpart contains class of station symbols and a frequency table which lists assignable frequencies. Frequencies in the Aviation Services will transmit communications for the safe, expeditious, and economic operation of aircraft and the protection of life and property in the air. Each class of land station may communicate in accordance with the particular sections of this part which govern these classes. Land stations in the Aviation Services in Alaska may transmit messages concerning sickness, death, weather, ice conditions or other matters relating to safety of life and property if there is no other established means of communications between the points in question and no charge is made for the communications service.

[69 FR 32882, June 14, 2004]

§ 87.171 Class of station symbols.

The two or three letter symbols for the classes of station in the aviation services are:

Symbol and class of station

AX—Aeronautical fixed
AXO—Aeronautical operational fixed
DGP—Differential GPS
FA—Aeronautical land (unspecified)
FAU—Aeronautical advisory (unicom)
FAC—Airport control tower
FAE—Aeronautical enroute
FAM—Aeronautical multicom
FAR—Aeronautical search and rescue
FAS—Aviation support
FAT—Flight test
FAW—Automatic weather observation
GCO—Ground Communication Outlet
MA—Aircraft (Air carrier and Private)
MA1—Air carrier aircraft only
MA2—Private aircraft only
MOU—Aeronautical utility mobile
MRT—ELT test
RCO—Remote Communications Outlet
RL—Radionavigation land (unspecified)
RLA—Marker beacon
RLB—Radiobeacon
RLD—RADAR/TEST
RLG—Glide path
RLL—Localizer
RLO—VHF omni-range
RLS—Surveillance radar
RLT—Radionavigation land test
RLW—Microwave landing system
RNV—Radio Navigation Land/DME
RPC—Ramp Control
TJ—Aircraft earth station in the Aeronautical Mobile-Satellite Service

[53 FR 28940, Aug. 1, 1988, as amended at 57 FR 45750, Oct. 5, 1992; 64 FR 27475, May 20, 1999; 69 FR 32882, June 14, 2004]

§ 87.173 Frequencies.

(a) The table in paragraph (b) of this section lists assignable carrier frequencies or frequency bands.

(1) The single letter symbol appearing in the "Subpart" column indicates the subpart of this part which contains additional applicable regulations.

(2) The two or three letter symbol appearing in the "Class of Station" column indicates the class of station to which the frequency is assignable.

(b) Frequency table:

Frequency or frequency band	Subpart	Class of station	Remarks
90–110 kHz	Q	RL	LORAN"C".
190–285 kHz	Q	RLB	Radiobeacons.
200–285 kHz	O	FAC	Air traffic control.
325–405 kHz	Q	RLB	Radiobeacons.
325–435 kHz	Q	RLB	Radiobeacons.
410.0 kHz	F	MA	International direction-finding for use outside of U.S.
457.0 kHz	F	MA	Working frequency for aircraft on over water flights.
500.0 kHz	F	MA	International calling and distress frequency for ships and aircraft on over water flights.
510–535 kHz	Q	RLB	Radiobeacons.
2182.0 kHz	F	MA	International distress and calling.
2371.0 kHz			[Reserved]
2374.0 kHz			[Reserved]
2648.0 kHz	I	AX	Alaska station.
2851.0 kHz	I, J	MA, FAE, FAT	International HF (AFI); Flight test.
2854.0 kHz	I	MA, FAE	International HF (SAT).
2866.0 kHz	I	MA, FAE	Domestic HF (Alaska).

Frequency or frequency band	Subpart	Class of station	Remarks
2869.0 kHz	I	MA, FAE	International HF (CEP).
2872.0 kHz	I	MA, FAE	International HF (NAT).
2875.0 kHz	I	MA, FAE	Domestic HF.
2878.0 kHz	I	MA1, FAE	Domestic HF; International HF (AFI).
2887.0 kHz	I	MA, FAE	International HF (CAR).
2899.0 kHz	I	MA, FAE	International HF (NAT).
2911.0 kHz	I	MA, FAE	Domestic HF.
2932.0 kHz	I	MA, FAE	International HF (NP).
2935.0 kHz	I	MA, FAE	International HF (NP).
2944.0 kHz	I	MA, FAE	International HF (SAM and MID).
2956.0 kHz	I	MA, FAE	Domestic HF.
2962.0 kHz	I	MA, FAE	International HF (NAT).
2971.0 kHz	I	MA, FAE	International HF (NAT).
2992.0 kHz	I	MA, FAE	International HF (MID).
2998.0 kHz	I	MA, FAE	International HF (CWP).
3004.0 kHz	I, J	MA, FAE, FAT	International HF (NCA); Flight test.
3013.0 kHz	I	MA, FAE	Long distance operational control.
3016.0 kHz	I	MA, FAE	International HF (EA, NAT).
3019.0 kHz	I	MA1, FAE	Domestic HF; International HF ((NCA).
3023.0 kHz	F, M, O	MA1, FAR, FAC	Search and rescue communications.
3281.0 kHz	K	MA, FAS	Lighter-than-air craft and aeronautical stations serving lighter-than-air craft.
3413.0 kHz	I	MA, FAE	International HF (CEP).
3419.0 kHz	I	MA, FAE	International HF (AFI).
3425.0 kHz	I	MA, FAE	International HF (AFI).
3434.0 kHz	I	MA1, FAE	Domestic HF.
3443.0 kHz	J	MA, FAT	
3449.0 kHz	I	MA, FAE	Domestic HF.
3452.0 kHz	I	MA, FAE	International HF (SAT).
3455.0 kHz	I	MA, FAE	International HF (CAR, CWP).
3467.0 kHz	I	MA, FAE	International HF (AFI, MID, SP).
3470.0 kHz	I	MA, FAE	Domestic HF and International HF (SEA).
3473.0 kHz	I	MA, FAE	International HF (MID).
3476.0 kHz	I	MA, FAE	International HF (INO, NAT).
3479.0 kHz	I	MA, FAE	International HF (EUR, SAM).
3485.0 kHz	I	MA, FAE	International HF (EA, SEA).
3491.0 kHz	I	MA, FAE	International HF (EA).
3494.0 kHz	I	MA, FAE	Long distance operational control.
4125.0 kHz	F	MA	Distress and safety with ships and coast stations.
4466.0 kHz			[Reserved]
4469.0 kHz			[Reserved]
4506.0 kHz			[Reserved]
4509.0 kHz			[Reserved]
4550.0 kHz	I	AX	Gulf of Mexico.
4582.0 kHz			[Reserved]
4585.0 kHz			[Reserved]
4601.0 kHz			[Reserved]
4604.0 kHz			[Reserved]
4627.0 kHz			[Reserved]
4630.0 kHz			[Reserved]
4645.0 kHz	I	AX	Alaska.
4657.0 kHz	I	MA, FAE	International HF (AFI, CEP).
4666.0 kHz	I	MA, FAE	International HF (CWP).
4669.0 kHz	I	MA, FAE	International HF (MID, SAM).
4672.0 kHz	I	MA1, FAE	Domestic HF.
4675.0 kHz	I	MA, FAE	International HF (NAT).
4678.0 kHz	I	MA, FAE	International HF (NCA).
4947.5 kHz	I	AX	Alaska.
5036.0 kHz	I	AX	Gulf of Mexico.
5122.5 kHz	I	AX	Alaska.
5167.5 kHz	I	FA	Alaska emergency.
5310.0 kHz	I	AX	Alaska.
5451.0 kHz	J	MA, FAT	
5463.0 kHz	I	MA1, FAE	Domestic HF.
5469.0 kHz	J	MA, FAT	
5427.0 kHz	I	MA, FAE	Domestic HF.
5484.0 kHz	I	MA, FAE	Domestic HF.
5490.0 kHz	I	MA, FAE	Domestic HF.
5493.0 kHz	I	MA, FAE	International HF (AFI).
5496.0 kHz	I	MA, FAE	Domestic HF.
5508.0 kHz	I	MA1, FAE	Domestic HF.
5520.0 kHz	I	MA, FAE	International HF (CAR).
5526.0 kHz	I	MA, FAE	International HF (SAM).
5529.0 kHz	I	MA, FAE	Long distance operational control.

Frequency or frequency band	Subpart	Class of station	Remarks
5538.0 kHz	I	MA, FAE	Long distance operational control.
5547.0 kHz	I	MA, FAE	International HF (CEP).
5550.0 kHz	I	MA, FAE	International HF (CAR).
5559.0 kHz	I	MA, FAE	International HF (SP).
5565.0 kHz	I	MA, FAE	International HF (SAT).
5571.0 kHz	J	MA, FAT	
5574.0 kHz	I	MA, FAE	International HF (CEP).
5598.0 kHz	I	MA, FAE	International HF (NAT).
5616.0 kHz	I	MA, FAE	International HF (NAT).
5628.0 kHz	I	MA, FAE	International HF (NP).
5631.0 kHz	I	MA, FAE	Domestic HF.
5634.0 kHz	I	MA, FAE	International HF (INO).
5643.0 kHz	I	MA, FAE	International HF (SP).
5646.0 kHz	I	MA, FAE	International HF (NCA).
5649.0 kHz	I	MA, FAE	International HF (NAT, SEA).
5652.0 kHz	I	MA, FAE	International HF (AFI, CWP).
5655.0 kHz	I	MA, FAE	International HF (EA, SEA).
5658.0 kHz	I	MA, FAE	International HF (AFI, MID).
5661.0 kHz	I	MA, FAE	International HF (CWP, EUR).
5664.0 kHz	I	MA, FAE	International HF (NCA).
5667.0 kHz	I	MA, FAE	International HF (MID).
5670.0 kHz	I	MA, FAE	International HF (EA).
5680.0 kHz	F, M, O	MA1, FAC, FAR	Search and rescue communications.
5887.5 kHz	I	AX	Alaska.
6532.0 kHz	I	MA, FAE	International HF (CWP).
6535.0 kHz	I	MA, FAE	International HF (SAT).
6550.0 kHz	J	MA, FAT	
6556.0 kHz	I	MA, FAE	International HF (SEA).
6559.0 kHz	I	MA, FAE	International HF (AFI).
6562.0 kHz	I	MA, FAE	International HF (CWP).
6571.0 kHz	I	MA, FAE	International HF (EA).
6574.0 kHz	I	MA, FAE	International HF (AFI).
6577.0 kHz	I	MA, FAE	International HF (CAR).
6580.0 kHz	I	MA, FAE	Domestic HF.
6586.0 kHz	I	MA, FAE	International HF (CAR).
6592.0 kHz	I	MA, FAE	International HF (NCA).
6598.0 kHz	I	MA, FAE	International HF (EUR).
6604.0 kHz	I	MA, FAE	Domestic HF.
6622.0 kHz	I	MA, FAE	International HF (NAT).
6625.0 kHz	I	MA, FAE	International HF (MID).
6628.0 kHz	I	MA, FAE	International HF (NAT).
6631.0 kHz	I	MA, FAE	International HF (MID).
6637.0 kHz	I	MA, FAE	Long distance operational control.
6640.0 kHz	I	MA, FAE	Long distance operational control.
6649.0 kHz	I	MA, FAE	International HF (SAM).
6655.0 kHz	I	MA, FAE	International HF (NP).
6661.0 kHz	I	MA, FAE	International HF (NP).
6673.0 kHz	I	MA, FAE	International HF (AFI, CEP).
8015.0 kHz	I	AX	Alaska.
8364.0 kHz	F	MA,	Search and rescue communications.
8822.0 kHz	J	MA, FAT	
8825.0 kHz	I	MA, FAE	International HF (NAT).
8831.0 kHz	I	MA, FAE	International HF (NAT).
8843.0 kHz	I	MA, FAE	International HF (CEP).
8846.0 kHz	I	MA, FAE	International HF (CAR).
8855.0 kHz	I	MA, FAE	Domestic HF; International HF (SAM).
8861.0 kHz	I	MA, FAE	International HF (SAT).
8864.0 kHz	I	MA, FAE	International HF (NAT).
8867.0 kHz	I	MA, FAE	International HF (SP).
8876.0 kHz	I	MA, FAE	Domestic HF.
8879.0 kHz	I	MA, FAE	International HF (INO, NAT).
8891.0 kHz	I	MA, FAE	International HF (NAT).
8894.0 kHz	I	MA, FAE	International HF (AFI).
8897.0 kHz	I	MA, FAE	International HF (EA).
8903.0 kHz	I	MA, FAE	International HF (AFI, CWP).
8906.0 kHz	I	MA, FAE	International HF (NAT).
8918.0 kHz	I	MA, FAE	International HF (CAR, MID).
8933.0 kHz	I	MA, FAE	Long distance operational control.
8942.0 kHz	I	MA, FAE	International HF (SEA).
8951.0 kHz	I	MA, FAE	International HF (MID).
10018.0 kHz	I	MA, FAE	International HF (MID).
10024.0 kHz	I	MA, FAE	International HF (SAM).
10033.0 kHz	I	MA, FAE	Long distance operational control.
10042.0 kHz	I	MA, FAE	International HF (EA).

Frequency or frequency band	Subpart	Class of station	Remarks
10045.0 kHz	J	MA, FAT	
10048.0 kHz	I	MA, FAE	International HF (NP).
10057.0 kHz	I	MA, FAE	International HF (CEP).
10066.0 kHz	I	MA, FAE	Domestic HF; International HF (SEA).
10075.0 kHz	I	MA, FAE	Long distance operational control.
10081.0 kHz	I	MA, FAE	International HF (CWP).
10084.0 kHz	I	MA, FAE	International HF (EUR, SP).
10096.0 kHz	I	MA, FAE	International HF (NCA, SAM).
11279.0 kHz	I	MA, FAE	International HF (NAT).
11282.0 kHz	I	MA, FAE	International HF (CEP).
11288.0 kHz	J	MA, FAT	
11291.0 kHz	I	MA, FAE	International HF (SAT).
11300.0 kHz	I	MA, FAE	International HF (AFI).
11306.0 kHz	J	MA, FAT	
11309.0 kHz	I	MA, FAE	International HF (NAT).
11327.0 kHz	I	MA, FAE	International HF (SP).
11330.0 kHz	I	MA, FAE	International HF (AFI, NP).
11336.0 kHz	I	MA, FAE	International HF (NAT).
11342.0 kHz	I	MA, FAE	Long distance operational control.
11348.0 kHz	I	MA, FAE	Long distance operational control.
11357.0 kHz	I	MA, FAE	Domestic HF.
11360.0 kHz	I	MA, FAE	International HF (SAM).
11363.0 kHz	I	MA, FAE	Domestic HF.
11375.0 kHz	I	MA, FAE	International HF (MID).
11384.0 kHz	I	MA, FAE	International HF (CWP).
11387.0 kHz	I	MA, FAE	International HF (CAR).
11396.0 kHz	I	MA, FAE	International HF (CAR, EA, SEA).
13273.0 kHz	I	MA, FAE	International HF (AFI).
13288.0 kHz	I	MA, FAE	International HF (AFI, EUR, MID).
13291.0 kHz	I	MA, FAE	International HF (NAT).
13294.0 kHz	I	MA, FAE	International HF (AFI).
13297.0 kHz	I	MA, FAE	International HF (CAR, EA, SAM).
13300.0 kHz	I	MA, FAE	International HF (CEP, CWP, NP, SP).
13303.0 kHz	I	MA, FAE	International HF (EA, NCA).
13306.0 kHz	I	MA, FAE	International HF (INO, NAT).
13309.0 kHz	I	MA, FAE	International HF (EA, SEA).
13312.0 kHz	I, J	MA, FAE, FAT	International HF (MID); Flight test.
13315.0 kHz	I	MA, FAE	International HF (NCA, SAT).
13318.0 kHz	I	MA, FAE	International HF (SEA).
13330.0 kHz	I	MA, FAE	Long distance operational control.
13348.0 kHz	I	MA, FAE	Long distance operational control.
13357.0 kHz	I	MA, FAE	International HF (SAT).
17904.0 kHz	I	MA, FAE	International HF (CEP, CWP, NP, SP).
17907.0 kHz	I	MA, FAE	International HF (CAR, EA, SAM, SEA).
17925.0 kHz	I	MA, FAE	Long distance operational control.
17946.0 kHz	I	MA, FAE	International HF (NAT).
17955.0 kHz	I	MA, FAE	International HF (SAT).
17958.0 kHz	I	MA, FAE	International HF (NCA).
17961.0 kHz	I	MA, FAE	International HF (AFI, EUR, INO, MID).
17964.0 kHz	J	MA, FAT	
21931.0 kHz	J	MA, FAT	
21964.0 kHz	I	MA, FAE	Long distance operational control.
26618.5 kHz			[Reserved]
26620.0 kHz			[Reserved]
26621.5 kHz			[Reserved]
72.020–75.980 MHz	P	FA, AXO	Operational fixed; 20 kHz spacing.
75.000 MHz	Q	RLA	Marker beacon.
108.000 MHz	Q	RLT	
108.000–117.950 MHz	Q	RLO	VHF omni-range.
108.000–117.975 MHz	Q	DGP	Differential GPS.
108.050 MHz	Q	RLT	
108.100–111.950 MHz	Q	RLL	ILS localizer.
108.100 MHz	Q	RLT	
108.150 MHz	Q	RLT	
112–118 MHz	Q	DGP	Differential GPS.
118.000–121.400 MHz	O	MA, FAC, FAW, GCO, RCO, RPC	25 kHz channel spacing.
121.500 MHz	G, H, I, J, K, M, O	MA, FAU, FAE, FAT, FAS, FAC, FAM, FAP	Emergency and distress.
121.600–121.925 MHz	I, O, L, Q	MA, FAC, MOU, RLT, GCO, RCO, RPC	25 kHz channel spacing.

Frequency or frequency band	Subpart	Class of station	Remarks
121.950 MHz	K	FAS	
121.975 MHz	F	MA, FAW, FAC, MOU	Air traffic control operations.
122.000 MHz	F	MA, FAC, MOU	Air carrier and private aircraft enroute flight advisory service provided by FAA.
122.025 MHz	F	MA, FAC, MOU	Air traffic control operations.
122.050 MHz	F	MA, FAC, MOU	Air traffic control operations.
122.075 MHz	F	MA, FAW, FAC, MOU	Air traffic control operations.
122.100 MHz	F, O	MA, FAC, MOU	Air traffic control operations.
122.125–122.675 MHz	F	MA, FAC, MOU	Air traffic control operations; 25 kHz spacing.
122.700 MHz	G, L	MA, FAU, MOU	Unicom at airports with no control tower; Aeronautical utility stations.
122.725 MHz	G, L	MA, FAU, MOU	Unicom at airports with no control tower; Aeronautical utility stations.
122.750 MHz	F	MA2	Private fixed wing aircraft air-to-air communications.
122.775 MHz	K	MA, FAS	
122.800 MHz	G, L	MA, FAU, MOU	Unicom at airports with no control tower; Aeronautical utility stations.
122.825 MHz	I	MA, FAE	Domestic VHF
122.850 MHz	H, K,	MA, FAM, FAS	
122.875 MHz	I	MA, FAE	Domestic VHF
122.900 MHz	F, H, L M	MA, FAR, FAM, MOU	
122.925 MHz	H	MA2, FAM	
122.950 MHz	G, L	MA, FAU, MOU	Unicom at airports with no control tower; Aeronautical utility stations.
122.975 MHz	G, L	MA, FAU, MOU	Unicom at airports with no control tower; Aeronautical utility stations.
123.000 MHz	G, L	MA, FAU, MOU	Unicom at airports with no control tower; Aeronautical utility stations.
123.025 MHz	F	MA2	Helicopter air-to-air communications; Air traffic control operations.
123.050 MHz	G, L	MA, FAU, MOU	Unicom at airports with no control tower; Aeronautical utility stations.
123.075 MHz	G, L	MA, FAU, MOU	Unicom at airports with no control tower; Aeronautical utility stations.
123.100 MHz	M, O	MA, FAC, FAR	
123.125 MHz	J	MA, FAT	Itinerant.
123.150 MHz	J	MA, FAT	Itinerant.
123.175 MHz	J	MA, FAT	Itinerant.
123.200 MHz	J	MA, FAT	
123.225 MHz	J	MA, FAT	
123.250 MHz	J	MA, FAT	
123.275 MHz	J	MA, FAT	
123.300 MHz	K	MA, FAS	
123.325 MHz	J	MA, FAT	
123.350 MHz	J	MA, FAT	
123.375 MHz	J	MA, FAT	
123.400 MHz	J	MA, FAT	Itinerant.
123.425 MHz	J	MA, FAT	
123.450 MHz	J	MA, FAT	
123.475 MHz	J	MA, FAT	
123.500 MHz	K	MA, FAS	
123.525 MHz	J	MA, FAT	
123.550 MHz	J	MA, FAT	
123.575 MHz	J	MA, FAT	Itinerant.
123.6–128.8 MHz	O	MA, FAC, FAW, GCO, RCO, RPC	25 kHz channel spacing.
128.825–132.000 MHz	I	MA, FAE	Domestic VHF; 25 kHz channel spacing.
132.025–135.975 MHz	O	MA, FAC, FAW, GCO, RCO, RPC	25 kHz channel spacing.
136.000–136.400 MHz	O, S	MA, FAC, FAW, GCO, RCO, RPC	Air traffic control operations; 25 kHz channel spacing.
136.425 MHz	O, S	MA, FAC, FAW, GCO, RCO, RPC	Air traffic control operations.
136.450 MHz	O, S	MA, FAC, FAW, GCO, RCO, RPC	Air traffic control operations.

Frequency or frequency band	Subpart	Class of station	Remarks
136.475 MHz	O, S	MA, FAC, FAW, GCO, RCO, RPC	Air traffic control operations.
136.500–136.875 MHz	I	MA, FAE	Domestic VHF; 25 kHz channel spacing.
136.900 MHz	I	MA, FAE	International and domestic VHF.
136.925 MHz	I	MA, FAE	International and domestic VHF.
136.950 MHz	I	MA, FAE	International and domestic VHF.
136.975 MHz	I	MA, FAE	International and domestic VHF.
143.750 MHz			[Reserved]
143.900 MHz			[Reserved]
148.150 MHz			[Reserved]
156.300 MHz	F	MA	For communications with ship stations under specific conditions.
156.375 MHz	F	MA	For communications with ship stations under specific conditions; Not authorized in New Oreleans vessel traffic service area.
156.400 MHz	F	MA	For communications with ship stations under specific conditions.
156.425 MHz	F	MA	For communications with ship stations under specific conditions.
156.450 MHz	F	MA	For communications with ship stations under specific conditions.
156.625 MHz	F	MA	For communications with ship stations under specific conditions.
156.800 MHz	F	MA	Distress, safety and calling frequency; For communications with ship stations under specific conditions.
156.900 MHz	F	MA	For communications with ship stations under specific conditions.
157.425 MHz	F	MA	For communications with commercial fishing vessels under specific conditions except in Great Lakes and St. Lawrence Seaway areas.
243.000 MHz	F	MA	Emergency and distress frequency for use of survival craft and emergency locator transmitters.
328.600–335.400 MHz	Q	RLG	ILS glide path.
334.550 MHz	Q	RLT	
334.700 MHz	Q	RLT	
406.0–406.1 MHz	F, G, H, I, J, K, M, O	MA, FAU, FAE, FAT, FAS, FAC, FAM, FAP	Emergency and distress.
960–1215 MHz	F, Q	MA, RL, RNV	Electronic aids to air navigation.
978.000 MHz	Q	RLT	
979.000 MHz	Q	RLT	
1030.000 MHz	Q	RLT	
1104.000 MHz	Q	RLT	
979.000 MHz	Q	RLT	
1300–1350 MHz	F, Q	MA, RLS	Surveillance radars and transponders.
1435–1535 MHz	F, J	MA, FAT	Aeronautical telemetry and telecommand operations.
1559–1610 MHz	Q	DGP	Differential GPS.
1559–1626.5 MHz	F, Q	MA, RL	Aeronautical radionavigation.
1646.5–1660.5 MHz	F	TJ	Aeronautical Mobile-Satellite (R).
2310–2390 MHz	J	MA, FAT	Aeronautical telemetry and telecommand operations.
2700–2900 MHz	Q	RLS, RLD	Airport surveillance and weather radar.
4200–4400 MHz	F	MA	Radio altimeters.
5000–5250 MHz[1]	Q	MA, RLW	Microwave landing system.
5031.000 MHz	Q	RLT	
5350–5470 MHz	F	MA	Airborne radars and associated airborne beacons.
8750–8850 MHz	F	MA	Airborne doppler radar.
9000–9200 MHz	Q	RLS, RLD	Land-based radar.
9300–9500 MHz	F, Q	MA	Airborne radars and associated airborne beacons.
13250–13400 MHz	F	MA	Airborne doppler radar.
14000–14400 MHz	F, Q	MA, RL	Aeronautical radionavigation.
15400–15700 MHz[2]	Q	RL	Aeronautical radionavigation.
24750–25050 MHz	F, Q	MA, RL	Aeronautical radionavigation.
32300–33400 MHz	F, Q	MA, RL	Aeronautical radionavigation

[1] See 47 CFR 2.106, footnotes S5.444A and US344, for conditions that apply to this band.
[2] See 47 CFR 2.106, footnotes S5.511C and US359, for conditions that apply to this band.

[53 FR 28940, Aug. 1, 1988, as amended at 54 FR 11721, Mar. 22, 1989; 55 FR 7333, Mar. 1, 1990; 55 FR 28628, July 12, 1990; 56 FR 21083, May 7, 1991; 56 FR 51656, Oct. 15, 1991; 57 FR 45750, Oct. 5, 1992; 58 FR 30127, May 26, 1993; 64 FR 27475, May 20, 1999; 65 FR 59357, Oct. 5, 2000; 65 FR 60112, Oct. 10, 2000; 66 FR 26799, May 15, 2001; 67 FR 17300, Apr. 10, 2002; 67 FR 41858, June 20, 2002; 69 FR 32882, June 14, 2004]