

Subpart P—Operational Fixed Stations

§ 87.445 Scope of service.

An operational fixed station provides control, repeater or relay functions for its associated aeronautical station.

§ 87.447 Supplemental eligibility.

An applicant for an operational fixed station must certify that:

- (a) The applicant is the licensee of an aeronautical land station in the aeronautical mobile service; and
- (b) Common carrier facilities are not available to satisfy the aeronautical station's requirements.

[53 FR 28940, Aug. 1, 1988, as amended at 63 FR 68958, Dec. 14, 1998]

§ 87.449 Frequencies.

The following frequencies in the 72–76 MHz band are assignable to operational fixed stations using vertical polarization, if no harmful interference is caused to TV reception on Channels 4 and 5. These frequencies are shared with the Land Mobile and the Maritime Mobile Services.

OPERATIONAL FREQUENCIES IN THE 72–76 MHz BAND

<i>Carrier frequency in MHz</i>	
72.02	72.66
72.04	72.68
72.06	72.70
72.08	72.72
72.10	72.74
72.12	72.76
72.14	72.78
72.16	72.80
72.18	72.82
72.20	72.84
72.22	72.86
72.24	72.88
72.26	72.90
72.28	72.92
72.30	72.94
72.32	72.96
72.34	72.98
72.36	75.42
72.38	75.46
72.40	75.50
72.42	75.54
72.46	75.58
72.50	75.62
72.54	75.64
72.58	75.66
72.62	75.68
72.64	75.70

75.72	75.86
75.74	75.88
75.76	75.90
75.78	75.92
75.80	75.94
75.82	75.96
75.84	75.98

§ 87.451 Licensing limitations.

Operational fixed stations are subject to the following licensing limitations:

- (a) A maximum of four frequencies will be assigned.
- (b) Stations will not be authorized when applications indicate less than 16 km (10 miles) separation between a proposed station and a TV transmitter operating on either Channel 4 or 5, or from the post office of a community in which either channel is assigned but not in operation.
- (c) Stations located between 16 km (10 miles) and 128 km (80 miles) of a TV transmitter operating on either Channel 4 or 5, or from the post office of a community in which either channel is assigned but not in operation, are secondary to TV operations within the Grade B service contour.¹

Subpart Q—Stations in the Radiodetermination Service

§ 87.471 Scope of service.

Stations in the aeronautical radiodetermination service provide radionavigation and radiolocation services.

- (a) Transmission by radionavigation land stations must be limited to aeronautical navigation, including obstruction warning.
- (b) Radionavigation land test stations are used for the testing and calibration of aircraft navigational aids and associated equipment. When used as radionavigation land test stations

¹OET Bulletin No. 67, March 1988, entitled "Potential Interference from Operational Fixed Stations in the 72–76 MHz Band to Television Channels 4 and 5" describes an analytical model that can be used to calculate the potential interference that might result from a given fixed station operation. Copies of the bulletin may be obtained from the Commission's current duplication contractor. Information concerning the current duplication contractor may be obtained from the Office of Public Affairs, Consumer Assistance and Small Business Division, Telephone (202) 632-5050.

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(MTF) signal generators must be licensed as radionavigation land test stations (MTF). Transmission must be limited to cases when radiation is necessary and there is no alternative.

(c) Transmissions by emergency locator transmitter (ELT) test stations must be limited to necessary testing of ELTs and to training operations related to the use of such transmitters.

[53 FR 28940, Aug. 1, 1988, as amended at 58 FR 67696, Dec. 22, 1993]

§ 87.473 Supplemental eligibility.

(a) Licenses for radionavigation land test stations (MTF) will be granted only to applicants engaged in the development, manufacture or maintenance of aircraft radionavigation equipment. Licenses for radionavigation land test stations (OTF) will be granted only to applicants who agree to establish the facility at an airport for the use of the public.

(b) Licenses for ELT test stations will be granted only to applicants to train personnel in the operation and location of ELTs, or for testing related to the manufacture or design of ELTs.

[53 FR 28940, Aug. 1, 1988, as amended at 63 FR 68958, Dec. 14, 1998]

§ 87.475 Frequencies.

(a) *Frequency coordination.* The Commission will assign frequencies to radionavigation land stations and radionavigation land test stations after coordination with the FAA. The applicant must notify the appropriate Regional Office of the FAA prior to submission to the Commission of an application for a new station or for modification of an existing station to change frequency, power, location or emission. Each application must include the FAA Regional Office notified and date of notification.

(b) *Frequencies available for radionavigation land stations.* (1) LORAN-C is a long range navigation system which operates in the 90–110 kHz band.

(2) Radiobeacon stations enable an aircraft station to determine bearing or direction in relation to the radiobeacon station. Radiobeacons operate in the bands 190–285 kHz; 325–435 kHz; 510–525 kHz; and 525–535 kHz. Radiobeacons may be authorized, pri-

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marily for off-shore use, in the band 525–535 kHz on a non-interference basis to travelers information stations.

(3) Aeronautical marker beacon stations radiate a vertical distinctive pattern on 75 MHz which provides position information to aircraft.

(4) The following table lists the specific frequencies in the 108.100–111.950 MHz band which are assignable to localizer stations with simultaneous radiotelephone channels and their associated glide path station frequency from the 328.600–335.400 MHz band.

Localizer (MHz)	Glide path (MHz)
108.100	334.700
108.150	334.550
108.300	334.100
108.350	333.950
108.500	329.900
108.550	329.750
108.700	330.500
108.750	330.350
108.900	329.300
108.950	329.150
109.100	331.400
109.150	331.250
109.300	332.000
109.350	331.850
109.500	332.600
109.550	332.450
109.700	333.200
109.750	333.050
109.900	333.800
109.950	333.650
110.100	334.400
110.150	334.250
110.300	335.000
110.350	334.850
110.500	329.600
110.550	329.450
110.700	330.200
110.750	330.050
110.900	330.800
110.950	330.650
111.100	331.700
111.150	331.550
111.300	332.300
111.350	332.150
111.500	332.900
111.550	332.750
111.700	333.500
111.750	333.350
111.900	331.100
111.950	330.950

(5) VHF omni-range (VOR) stations are to be assigned frequencies in the 112.050–117.950 MHz band (50 kHz channel spacing) and the following frequencies in the 108–112 MHz band:

108.200	108.650
108.250	108.800
108.400	108.850
108.450	109.000
108.600	109.050