

Federal Communications Commission

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station identification may be permitted or required by the Commission.

[28 FR 13716, Dec. 14, 1963, as amended at 42 FR 36830, July 18, 1977; 42 FR 38178, July 27, 1977; 45 FR 26067, Apr. 17, 1980; 49 FR 7130, Feb. 27, 1984]

Subpart F—Television Broadcast Auxiliary Stations

§ 74.600 Eligibility for license.

A license for a station in this subpart will be issued only to a television broadcast station, a Class A TV station, a television broadcast network-entity, a low power TV station, or a TV translator station.

[65 FR 30011, May 10, 2000]

§ 74.601 Classes of TV broadcast auxiliary stations.

(a) *TV pickup stations.* A land mobile station used for the transmission of TV program material and related communications from scenes of events occurring at points removed from TV station studios to a TV broadcast, Class A TV or low power TV station or other purposes as authorized in § 74.631.

(b) *TV STL station (studio-transmitter link).* A fixed station used for the transmission of TV program material and related communications from the studio to the transmitter of a TV broadcast, Class A TV or low power TV station or other purposes as authorized in § 74.631.

(c) *TV relay station.* A fixed station used for transmission of TV program material and related communications for use by TV broadcast, Class A TV and low power TV stations or other purposes as authorized in § 74.631.

(d) *TV translator relay station.* A fixed station used for relaying programs and signals of TV broadcast or Class A TV stations to Class A TV, LPTV, TV translator, and to other communications facilities that the Commission may authorize or for other purposes as permitted by § 74.631.

(e) *TV broadcast licensee.* Licensees and permittees of TV broadcast, Class A TV and low power TV stations, unless specifically otherwise indicated.

(f) *TV microwave booster station.* A fixed station in the TV broadcast auxiliary service that receives and amplifies signals of a TV pickup, TV STL, TV relay, or TV translator relay station and retransmits them on the same frequency.

[65 FR 30012, May 10, 2000]

§ 74.602 Frequency assignment.

(a) The following frequencies are available for assignment to television pickup, television STL, television relay and television translator relay stations. The band segments 17,700–18,580 and 19,260–19,700 MHz are available for broadcast auxiliary stations as described in paragraph (g) of this section. Additionally, the band 38.6–40.0 GHz is available for assignment without channel bandwidth limitation to TV pickup stations on a secondary basis to fixed stations. The band segment 6425–6525 MHz is available for broadcast auxiliary stations as described in paragraph (j) of this section. Broadcast network-entities may also use the 1990–2110, 6425–6525 and 6875–7125 MHz bands for mobile television pickup only.

Band A MHz	Band B MHz	Band D ¹ GHz			
		Group A channels		Group B channels	
		Designation	Channel boundaries	Designation	Channel boundaries
1990–2008 .....	.....	A01	12.700–12.725	B01	12.7125–12.7375
2008–2025 .....	.....	A02	12.725–12.750	B02	12.7375–12.7625
2025–2042 .....	.....	A03	12.750–12.775	B03	12.7265–12.7875
2042–2059 .....	.....	A04	12.775–12.800	B04	12.7875–12.8125
2059–2076	6875–6900	A05	12.800–12.825	B05	12.8125–12.8375
2076–2093	6900–6925	A06	12.825–12.850	B06	12.8375–12.8625

Band A MHz	Band B MHz	Band D ¹ GHz			
		Group A channels		Group B channels	
		Designation	Channel boundaries	Designation	Channel boundaries
2093–2110	6925–6950	A07	12.850–12.875	B07	12.8625–12.8875
2450–2467	6950–6975	A08	12.875–12.900	B08	12.8875–12.9125
2467–2483.5	6975–7000	A09	12.900–12.925	B09	12.9125–12.9375
	7000–7025	A10	12.925–12.950	B10	12.9375–12.9625
	7025–7050	A11	12.950–12.975	B11	12.9625–12.9875
	7050–7075	A12	12.975–13.000	B12	12.9875–13.0125
	7075–7100	A13	13.000–13.025	B13	13.0125–13.0375
	7100–7125	A14	13.025–13.050	B14	13.0375–13.0625
		A15	13.050–13.075	B15	13.0625–13.0875
		A16	13.075–13.100	B16	13.0875–13.1125
		A17	13.100–13.125	B17	13.1125–13.1375
		A18	13.125–13.150	B18 ²	13.1375–13.1625
A19 ²		13.150–13.175	B19 ²	13.1625–13.1875	
A20 ²		13.175–13.200	B20 ²	13.1875–13.2125	
A21		13.200–13.225	B21	13.2125–13.2375	
		A22	13.225–13.250		

¹ For fixed stations using Band D Channels, applicants are encouraged to use alternate A and B channels such that adjacent R.F. carriers are spaced 12.5 MHz. As example, a fixed station, relaying several channels, would use A01, B01, A02, B02, A03, etc.

² The band 13.15–13.20 GHz is reserved exclusively for the assignment of Television Pickup and CARS Pickup stations on a co-equal basis within a 50 km radius of each of the 100 television markets delineated in Section 76.51. Fixed television auxiliary stations licensed pursuant to applications accepted for filing before Sept. 1, 1979, may continue operation on channels in the 13.15–13.20 GHz band, subject to periodic license renewals.

(1) Frequencies shown above between 2450 and 2500 MHz in Band A are allocated to accommodate the incidental radiations of industrial, scientific, and medical (ISM) equipment, and stations operating therein must accept any interference that may be caused by the operation of such equipment. Frequencies between 2450 and 2500 MHz are also shared with other communication services and exclusive channel assignments will not be made, nor is the channeling shown above necessarily that which will be employed by such other services.

(2) The following notes to the Table of Frequency Allocations contained in §2.106 apply to the shared use of the frequency bands shown above:

NG 123 Television pickup stations may be authorized to use frequencies in the band

38.6–40 GHz on a secondary basis to stations operating in the fixed services.

US90 In the band 2025–2120 MHz earth-to-space transmissions in the space research and earth exploration satellite services by Government and non-Government stations as specific locations may be authorized subject to such conditions as may be applied on a case-by-case basis.

US111 In the band 1990–2120 MHz, Government space research earth station may be authorized to use specific frequencies at specific locations for earth-to-space transmissions. Such authorizations shall be secondary to non-Government use of this band and subject to such other conditions as may be applied on a case-by-case basis.

- Corpus Christi, Tex., 27°39' N., 097°23' W.
- Fairbanks, Alaska, 64°59' N, 147°53' W.
- Goldstone, Calif., 35°18' N, 116°54' W.
- Greenbelt, Md., 39°00' N, 076°50' W.
- Guam, Mariana Islands, 13°19' N, 144°44' E.
- Kanai, Hawaii, 22°08' N, 159°40' W.
- Meritt Island, Fla., 28°29' N, 080°35' W.
- Rosman, N.C., 35°12' N, 082°52' W.

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Wallops Island, Va., 37°57' N, 075°28' W.

US219 In the band 2025–2110 MHz, Government Earth resources satellite Earth stations in the Earth exploration-satellite service may be authorized to use the frequency 2106.4 MHz for Earth-to-space transmissions for tracking, telemetry, and telecommand at the sites listed below. Such transmissions shall not cause harmful interference to non-Government operations.

US222 In the band 2025–2035 MHz geostationary operational environmental satellite Earth stations in the space research and Earth exploration-satellite services may be authorized on a coequal basis for Earth-to-space transmission for tracking, telemetry, and telecommand at the sites listed below:

Wallops Is., Va. 37°50' 48" N., 75°27' 33" W.
Seattle, Wash. 47°34' 15" N., 122°33' 10" W.
Honolulu, Hawaii 21°21' 12" N., 157°52' 36" W.

NG147 Stations in the broadcast auxiliary service and private radio services licensed as of July 25, 1985, or on a subsequent date following as a result of submitting an application for license on or before July 25, 1985, may continue to operate on a primary basis to the radiodetermination satellite service.

(3)(i) After January 1, 2000, stations may adhere to the channel plan specified in paragraph (a) of this section, or to the following channel plan in Band A:

- Channel A01—2008–2023 MHz
- Channel A02—2023–2037.5 MHz
- Channel A03—2037.5–2052 MHz
- Channel A04—2052–2066.5 MHz
- Channel A05—2066.5–2081 MHz
- Channel A06—2081–2095.5 MHz
- Channel A07—2095.5–2110 MHz

(ii) Broadcast Auxiliary Service, Cable Television Remote Pickup Service, and Local Television Transmission Service licensees in Nielsen Designated Market Areas 1–30 will be required to use the Band A channel plan in paragraph (a)(3)(i) of this section after completion of relocation by an Emerging Technologies licensee in accordance with §74.690. Licensees declining relocation and licensees in Nielsen Designated Market Areas 31 and higher will be required to discontinue use of the 1990–2008 MHz band when informed by a Mobile-Satellite Service licensee that it intends to begin operations in the 1990–2008 MHz band.

(4)(i) When Mobile-Satellite Service licensees begin operations in the 2008–2025 MHz band, stations may adhere to the channel plan specified, but are for-

bidden to use Channel A01, or may adhere to the following channel plan in Band A:

- Channel A01—2025–2037.4 MHz
- Channel A02—2037.4–2049.5 MHz
- Channel A03—2049.5–2061.6 MHz
- Channel A04—2061.6–2073.7 MHz
- Channel A05—2073.7–2085.8 MHz
- Channel A06—2085.8–2097.9 MHz
- Channel A07—2097.9–2110 MHz

(ii) Broadcast Auxiliary Service, Cable Television Remote Pickup Service, and Local Television Transmission Service licensees in Nielsen Designated Market Areas 1–30 will be required to use the Band A channel plan in paragraph (a)(4)(i) of this section after completion of relocation by an Emerging Technologies licensee in accordance with §74.690. Licensees declining relocation and licensees in Nielsen Designated Market Areas 31 and higher will be required to discontinue use of the 2008–2025 MHz band when informed by a Mobile-Satellite Service licensee that it intends to begin operations in the 2008–2025 MHz band.

(b) Subject to the conditions of paragraph (a) of this section, frequency assignments will normally be made as requested, provided that the frequency selection provisions of §74.604 have been followed and that the frequency requested will cause no interference to existing users in the area. The Commission reserves the right to assign frequencies other than those requested if, in its opinion, such action is warranted.

(c) Fixed link stations will be authorized to operate on one channel only.

(d) Community antenna relay stations may be assigned channels in Band D between 12,700 and 13,200 MHz subject to the condition that no harmful interference is caused to TV STL and TV relay stations authorized at the time of such grants. Similarly, new TV STL and TV relay stations must not cause harmful interference to community antenna relay stations authorized at the time of such grants. The use of channels between 12,700 and 13,200 MHz by TV pickup stations is subject to the condition that no harmful interference is caused to community antenna relay, TV STL and TV relay stations, except as provided for in §74.602(a) Note 2. Band D channels are also shared with

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certain Private Operational Fixed Stations, see § 74.638.

(e) Communication common carriers in the Local Television Transmission Service (Part 101) may be assigned frequencies available to television broadcast station licensees and broadcast network entities for the purpose of providing service to television broadcast stations and broadcast network entities, respectively.

(f) TV auxiliary stations licensed to low power TV stations and translator relay stations will be assigned on a secondary basis, *i.e.*, subject to the condition that no harmful interference is caused to other TV auxiliary stations assigned to TV broadcast and Class A TV stations, or to community antenna relay stations (CARS) operating between 12,700 and 13,200 MHz. Auxiliary stations licensed to low power TV stations and translator relay stations must accept any interference caused by stations having primary use of TV auxiliary frequencies.

(g) The following frequencies are available for assignment to television STL, television relay stations and television translator relay stations. Stations operating on frequencies in the sub-band 19.26–19.3 GHz that were licensed or had applications pending before the Commission as of September 18, 1998 may continue those operations on a shared co-primary basis with other services under parts 21, 25, 78, and 101 of this chapter. Such stations, however, are subject to relocation by licensees in the fixed-satellite service. Such relocation is subject to the provisions of §§ 101.85 through 101.97 of this chapter. No new licenses will be granted in the 19.26–19.3 GHz band after June 8, 2000. The provisions of § 74.604 do not apply to the use of these frequencies. Licensees may use either a two-way link or one or both frequencies of a frequency pair for a one-way link and shall coordinate proposed operations pursuant to procedures required in § 101.103(d) of this chapter.

(1) 2 MHz maximum authorized bandwidth channel:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18141.0	n/a

(2) 6 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
216 MHz Separation	
18145.0	n/a
18151.0	18367.0
18157.0	18373.0
18163.0	18379.0
18169.0	18385.0
18175.0	18391.0
18181.0	18397.0
18187.0	18403.0
18193.0	18409.0
18199.0	18415.0
18205.0	18421.0
18211.0	18427.0
18217.0	18433.0
18223.0	18439.0
18229.0	18445.0
18235.0	18451.0
18241.0	18457.0
18247.0	18463.0
18253.0	18469.0
18259.0	18475.0
18265.0	18481.0
18271.0	18487.0
18277.0	18493.0
18283.0	18499.0
18289.0	18505.0
18295.0	18511.0
18301.0	18517.0
18307.0	18523.0
18313.0	18529.0
18319.0	18535.0
18325.0	18541.0
18331.0	18547.0
18337.0	18553.0
18343.0	18559.0
18349.0	18565.0
18355.0	18571.0
18361.0	18577.0

(3) 10 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17705.0	19265.0
17715.0	19275.0
17725.0	19285.0
17735.0	19295.0
17745.0	19305.0
17755.0	19315.0
17765.0	19325.0
17775.0	19335.0
17785.0	19345.0
17795.0	19355.0
17805.0	19365.0
17815.0	19375.0
17825.0	19385.0
17835.0	19395.0
17845.0	19405.0
17855.0	19415.0
17865.0	19425.0
17875.0	19435.0
17885.0	19445.0

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Transmit (receive) (MHz)	Receive (transmit) (MHz)
17895.0	19455.0
17905.0	19465.0
17915.0	19475.0
17925.0	19485.0
17935.0	19495.0
17945.0	19505.0
17955.0	19515.0
17965.0	19525.0
17975.0	19535.0
17985.0	19545.0
17995.0	19555.0
18005.0	19565.0
18015.0	19575.0
18025.0	19585.0
18035.0	19595.0
18045.0	19605.0
18055.0	19615.0
18065.0	19625.0
18075.0	19635.0
18085.0	19645.0
18095.0	19655.0
18105.0	19665.0
18115.0	19675.0
18125.0	19685.0
18135.0	19695.0

(4) 20 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17710.0	19270.0
17730.0	19290.0
17750.0	19310.0
17770.0	19330.0
17790.0	19350.0
17810.0	19370.0
17830.0	19390.0
17850.0	19410.0
17870.0	19430.0
17890.0	19450.0
17910.0	19470.0
17930.0	19490.0
17950.0	19510.0
17970.0	19530.0
17990.0	19550.0
18010.0	19570.0
18030.0	19590.0
18050.0	19610.0
18070.0	19630.0
18090.0	19650.0
18110.0	19670.0
18130.0	19690.0

(5) 40 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17720.0	19280.0
17760.0	19320.0
17800.0	19360.0
17840.0	19400.0

Transmit (receive) (MHz)	Receive (transmit) (MHz)
17880.0	19440.0
17920.0	19480.0
17960.0	19520.0
18000.0	19560.0
18040.0	19600.0
18080.0	19640.0
18120.0	19680.0

(6) 80 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17740.0	19300.0
17820.0	19380.0
17900.0	19460.0
17980.0	19540.0
18060.0	19620.0

(h) TV STL and TV relay stations may be authorized, on a secondary basis and subject to the provisions of Subpart G of this chapter, to operate fixed point-to-point service on the UHF-TV channels 14-69. These stations must not interfere with and must accept interference from current and future full-power UHF-TV stations, Class A TV stations, LPTV stations, and TV translator stations. They will also be secondary to current land mobile stations (in areas where land mobile sharing is currently permitted and contingent on the decision reached in the pending Dockets No. 85-172 and No. 84-902).

(i) 6425 to 6525 MHz—Mobile Only. Paired and un-paired operations permitted. Use of this spectrum for direct delivery of video programs to the general public or multi-channel cable distribution is not permitted. This band is co-equally shared with mobile stations licensed pursuant to Parts 21, 78 and 94 of the Commission's Rules. The following channel plans apply.

(1) 1 MHz maximum authorized bandwidth channels.

Transmit (or receive MHz)	Receive (or transmit) (MHz)
6425.5	6475.5
6450.5	6500.5

(2) 8 MHz maximum authorized bandwidth channels.

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Transmit (or receive MHz)	Receive (or transmit) (MHz)
6430.0	6480.0
6438.0	6488.0
6446.0	6596.0
6455.0	6505.0
6463.0	6513.0
6471.0	6521.0

(3) 25 MHz maximum authorized bandwidth channels.

Transmit (or receive MHz)	Receive (or transmit) (MHz)
6437.5	6487.5
6462.5	6512.5

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082; 47 U.S.C. 154, 155, 303)

[28 FR 13718, Dec. 14, 1963]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 74.602, see the List of CFR Sections Affected in the Finding Aids section of this volume.

EFFECTIVE DATE NOTE: At 65 FR 54172, Sept. 7, 2000, § 74.602 was amended by revising (g) introductory text, effective Oct. 10, 2000. For the convenience of the user, the superseded text is set forth as follows:

§ 74.602 Frequency assignment.

* * * * *

(g) The following frequencies are available for assignment to television STL, television relay stations and television translator relay stations. The provisions of § 74.604 do not apply to the use of these frequencies. These frequencies are shared on a co-primary basis with other stations in the fixed service (see Parts 78 and 101). Applicants may use either a two-way link or one or both frequencies of a frequency pair for a one-way link and shall coordinate proposed operations pursuant to procedures required in § 101.103(d).

* * * * *

§ 74.603 Sound channels.

(a) The frequencies listed in § 74.602(a) may be used for the simultaneous transmission of the picture and sound portions of TV broadcast programs and for cue and order circuits, either by means of multiplexing or by the use of a separate transmitter within the same channel. When multiplexing of a TV STL station is contemplated, consideration should be given to the requirements of § 73.687 of this Chapter regarding the overall system performance requirements. Applications for new TV pickup, TV STL, TV relay and TV

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translator relay stations shall clearly indicate the nature of any multiplexing proposed. Multiplexing equipment may be installed on licensed equipment without authority of the FCC, provided the installation of such apparatus on a TV STL station shall not result in degradation of the overall system performance of the TV broadcast station below that permitted by § 73.687 of this chapter.

(b) The aural portion of television broadcast program material may be transmitted over an aural broadcast STL or intercity relay station licensed under the provisions of Subpart E of this part, but only on a secondary, non-interference basis to the programming of aural broadcast stations. A TV station licensee may continue such operation until the channel assigned to its Subpart E station is requested by an aural broadcast licensee after a showing that no other vacant channels are available or satisfactory. Upon Commission concurrence with the aural broadcast licensee request, the TV station licensee will be required to discontinue operation on the requested frequency. In areas where only a portion of the Subpart E frequencies used by TV station licensees are required by aural broadcast licensees, the Commission will assist all affected parties in arriving at an equitable solution. The provisions of this paragraph do not preclude continued use of Subpart E facilities for relay of TV sound where the facilities are authorized to an aural broadcast licensee and the primary purpose of the station is to relay aural broadcast programming.

(c) Aural STL or intercity relay stations licensed as of July 10, 1970, to operate in the frequency band 942-947 MHz, may continue to so operate pending a decision as to their disposition through a future rule making proceeding.

(d) Remote pickup broadcast stations may be used in conjunction with television pickup stations for the transmission of the aural portion of television programs or events that occur outside a television studio and for the transmission of cues, orders, and other related communications necessary thereto. The rules governing remote