

## § 15.613

comply with the radiated emission limits provided in §15.109(b).

(2) *Low voltage power lines.* Access BPL systems that operate over low-voltage power lines, including those that operate over low-voltage lines that are connected to the in-building wiring, shall comply with the radiated emission limits provided in §15.109(a) and (e).

(c) *Interference Mitigation and Avoidance.* (1) Access BPL systems shall incorporate adaptive interference mitigation techniques to remotely reduce power and adjust operating frequencies, in order to avoid site-specific, local use of the same spectrum by licensed services. These techniques may include adaptive or “notch” filtering, or complete avoidance of frequencies, or bands of frequencies, locally used by licensed radio operations.

(i) For frequencies below 30 MHz, when a notch filter is used to avoid interference to a specific frequency band, the Access BPL system shall be capable of attenuating emissions within that band to a level at least 20 dB below the applicable part 15 limits.

(ii) For frequencies above 30 MHz, when a notch filter is used to avoid interference to a specific frequency band, the Access BPL system shall be capable of attenuating emissions within that band to a level at least 10 dB below the applicable part 15 limits.

(iii) At locations where an Access BPL operator attenuates radiated emissions from its operations in accordance with the above required capabilities, we will not require that operator to take further actions to resolve complaints of harmful interference to mobile operations.

(2) Access BPL systems shall comply with applicable radiated emission limits upon power-up following a fault condition, or during a start-up operation after a shut-off procedure, by the use of a non-volatile memory, or some other method, to immediately restore previous settings with programmed notches and excluded bands, to avoid time delay caused by the need for manual re-programming during which protected services may be vulnerable.

(3) Access BPL systems shall incorporate a remote-controllable shut-down feature to deactivate, from a cen-

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tral location, any unit found to cause harmful interference, if other interference mitigation techniques do not resolve the interference problem.

[70 FR 1374, Jan. 7, 2005, as amended at 71 FR 49379, Aug. 23, 2006]

### § 15.613 Measurement procedures.

Compliance measurements for Access BPL shall be made in accordance with the Guidelines for Access BPL systems specified by the Commission.

### § 15.615 General administrative requirements.

(a) *Access BPL Database.* Entities operating Access BPL systems shall supply to an industry-recognized entity, information on all existing Access BPL systems and all proposed Access BPL systems for inclusion into a publicly available data base, within 30 days prior to initiation of service. Such information shall include the following:

(1) The name of the Access BPL provider.

(2) The frequencies of the Access BPL operation.

(3) The postal zip codes served by the specific Access BPL operation.

(4) The manufacturer and type of Access BPL equipment and its associated FCC ID number, or, in the case of Access BPL equipment that has been subject to verification, the Trade Name and Model Number, as specified on the equipment label.

(5) The contact information, including both phone number and e-mail address of a person at, or associated with, the BPL operator’s company, to facilitate the resolution of any interference complaint.

(6) The proposed/or actual date of Access BPL operation.

(b) The Access BPL database manager shall enter this information into the publicly accessible database within three (3) business days of receipt.

(c) No notification to the Commission is required.

(d) A licensed spectrum user experiencing harmful interference that is suspected to be caused by an Access BPL system shall inform the local BPL operator’s contact person designated in the Access BPL database. The investigation of the reported interference

and the resolution of confirmed harmful interference from the Access BPL system shall be successfully completed by the BPL operator within a reasonable time period according to a mutually acceptable schedule, after the receipt of an interference complaint, in order to avoid protracted disruptions to licensed services. The Access BPL operator shall respond to complaints of harmful interference from public safety users within 24 hours. With regard to public safety complaints, the BPL provider shall be required to immediately cease the operations causing such complaint if it fails to respond within 24 hours.

(e) *Consultation with public safety users.* An entity operating an Access BPL system shall notify and consult with the public safety users in the area where it plans to deploy Access BPL, at least 30 days prior to initiation of any operation or service. This entity shall design or implement the Access BPL system such that it does not cause harmful interference in those frequencies or bands used by the public safety agencies in the area served by the Access BPL system. The notification shall include, at a minimum, the information in paragraph (a) of this section.

(f) *Federal government spectrum users and other radio service users.* An entity operating an Access BPL system shall ensure that, within its Access BPL deployment area, its system does not operate on any frequencies designated as excluded bands or on identified frequencies within any designated exclusion zones.

(1) *Excluded Bands.* To protect Aeronautical (land) stations and aircraft receivers, Access BPL operations using overhead medium voltage power lines are prohibited in the frequency bands listed in Table 1. Specifically, such BPL systems shall not place carrier frequencies in these bands.

TABLE 1—EXCLUDED FREQUENCY BANDS

Frequency band
2,850–3,025 kHz
3,400–3,500 kHz
4,650–4,700 kHz
5,450–5,680 kHz
6,525–6,685 kHz
8,815–8,965 kHz
10,005–10,100 kHz

TABLE 1—EXCLUDED FREQUENCY BANDS—Continued

Frequency band
11,275–11,400 kHz
13,260–13,360 kHz
17,900–17,970 kHz
21,924–22,000 kHz
74.8–75.2 MHz

(2) *Exclusion zones.* Exclusion zones encompass the operation of any Access BPL system within 1km of the boundary of coast station facilities at the coordinates listed in Tables 2 and 2.1. Exclusion zones also encompass the operation of Access BPL systems using overhead medium voltage power lines within 65 km of the Very Large Array observatory located at the coordinate 34°04'43.50" N, 107°37'03.82" W. Exclusion zones further encompass the operation of Access BPL systems using overhead low voltage power lines or underground power lines within 47 km of the Very Large Array observatory located at the coordinate 34°04'43.50" N, 107°37' 03.82" W. Within the exclusion zones for coast stations, Access BPL systems shall not use carrier frequencies within the band of 2173.5–2190.5 kHz. Within the exclusion zone for the Very Large Array radio astronomy observatory, Access BPL systems shall not use carrier frequencies within the 73.0–74.6 MHz band.

(i) *Existing coast station facilities.* Access BPL systems shall not operate in the frequency band 2,173.5–2,190.5 kHz, within 1 kilometer (km) of the boundary of coast station facilities at the coordinates listed in Tables 2 and 2.1. BPL operators planning to deploy Access BPL devices at these frequencies in areas within these exclusion zones as defined above shall consult with the appropriate point of contact for these coast stations to ensure harmful interference is prevented at these facilities.

Point of contact: Commandant (CG 622), U.S. Coast Guard, 2100 2nd Street, SW., Washington, DC 20593-0001, Telephone: (202) 267-2860, e-mail: [cgcomms@comdt.uscg.mil](mailto:cgcomms@comdt.uscg.mil).

TABLE 2—EXCLUSION ZONES FOR U.S. COAST GUARD COAST STATIONS

Locale	Latitude	Longitude
Group Guam .....	13°35'23" N	144°50'24" E
GANTSEC .....	18°18'00" N	65°46'59" W
Puerto Rico .....	18°28'11" N	66°07'47" W

TABLE 2—EXCLUSION ZONES FOR U.S. COAST  
GUARD COAST STATIONS—Continued

Locale	Latitude	Longitude
Honolulu .....	21°18'21" N	157°53'23" W
Group Key West .....	24°33'35" N	81°47'59" W
Trumbo Point CG Base .....	24°33'58" N	81°47'57" W
Miami .....	25°37'28" N	80°23'07" W
Everglades Park .....	25°50'10" N	81°23'13" W
Group Saint Petersburg (Everglades).	25°51'00" N	81°23'24" W
Station Ft. Lauderdale .....	26°05'21" N	80°06'40" W
Station Ft. Myers Beach .....	26°27'34" N	81°57'15" W
Group Miami (Ft. Pierce) .....	27°27'36" N	80°18'36" W
Station Ft. Pierce .....	27°27'50" N	80°18'27" W
Group Corpus Christi .....	27°42'01" N	97°16'11" W
Group Corpus Christi .....	27°42'06" N	97°16'45" W
ESD Saint Petersburg .....	27°45'21" N	82°37'32" W
Group Saint Petersburg .....	27°46'11" N	82°37'47" W
Station Port O'Connor .....	28°26'03" N	96°25'39" W
S. Padre Island .....	28°26'22" N	97°09'56" W
Freeport .....	28°55'59" N	95°16'59" W
Group Galveston (Free- port).	28°56'24" N	95°17'59" W
Station YANKEETOWN .....	29°01'51" N	82°43'39" W
Station Ponce De Leon Inlet.	29°03'50" N	81°55'01" W
Group New Orleans (Grand Isle).	29°15'53" N	89°57'26" W
Galveston .....	29°19'59" N	94°46'18" W
Kapalan .....	29°20'04" N	94°47'17" W
Sabine .....	29°43'42" N	93°52'14" W
New Orleans .....	30°01'17" N	90°07'24" W
Panama City .....	30°10'01" N	85°45'04" W
Group Mobile (Panama City).	30°10'12" N	85°45'36" W
ANT Jacksonville Beach ....	30°17'16" N	81°24'10" W
Pensacola .....	30°20'24" N	87°18'17" W
Group Mayport .....	30°23'10" N	81°26'01" W
Group Mayport .....	30°23'24" N	81°25'48" W
Ft. Morgan .....	30°39'07" N	88°03'12" W
Tybee Lighthouse .....	32°01'15" N	80°50'39" W
Point Loma Lighthouse .....	32°39'56" N	117°14'34" W
Point Loma .....	32°40'07" N	117°14'14" W
Activities San Diego .....	32°43'59" N	117°11'13" W
Group Charleston (Sulli- van's Island).	32°45'00" N	79°49'47" W
Sullivan's Island Lights .....	32°45'02" N	79°50'03" W
Group Charleston .....	32°46'25" N	79°56'37" W
Group San Diego .....	32°52'48" N	118°26'23" W
San Pedro .....	33°45'00" N	118°15'58" W
Group Fort Macon .....	33°53'24" N	78°01'48" W
Point Mugu .....	33°59'32" N	119°07'18" W
Group LA/Long Beach .....	34°07'11" N	119°06'35" W
Channel Island .....	34°09'17" N	119°13'11" W
Station Oxnard Channel Is- land.	34°09'43" N	119°13'19" W
Group Ft. Macon .....	34°41'48" N	76°40'59" W
Group Cape Hatteras .....	35°13'59" N	75°31'59" W

TABLE 2—EXCLUSION ZONES FOR U.S. COAST  
GUARD COAST STATIONS—Continued

Locale	Latitude	Longitude
Group Cape Hatteras .....	35°15'35" N	75°31'48" W
Morro Bay (Cambria) .....	35°31'21" N	121°03'31" W
San Clemente Island .....	32°50'24" N	118°23'15" W
Point Pinos .....	36°38'12" N	121°56'06" W
CAMSLANT .....	36°43'47" N	76°01'11" W
Group Hampton Roads .....	36°53'01" N	76°21'10" W
Point Montara .....	37°31'23" N	122°30'47" W
Point Montara Lighthouse .....	37°32'09" N	122°31'08" W
Group San Francisco .....	37°32'23" N	122°31'11" W
Group San Francisco .....	37°48'34" N	122°21'55" W
Point Bonita .....	37°49'00" N	122°31'41" W
Group Eastern Shores .....	37°55'47" N	75°22'47" W
Group Eastern Shore .....	37°55'50" N	75°22'58" W
CAMSPAC .....	38°06'00" N	122°55'48" W
Point Arena Lighthouse .....	38°57'18" N	124°44'28" W
Point Arena .....	38°57'36" N	123°44'23" W
Group Atlantic City .....	39°20'59" N	74°27'42" W
Activities New York .....	40°36'06" N	74°03'36" W
Activities New York .....	40°37'11" N	74°04'11" W
ESD Moriches Hut .....	40°47'19" N	72°44'53" W
Group Moriches .....	40°47'23" N	72°45'00" W
Group Humboldt Bay .....	40°58'41" N	124°06'31" W
Group Humboldt Bay .....	40°58'47" N	124°06'35" W
Trinidad Head .....	41°03'15" N	124°09'02" W
Group Long Island Sound .....	41°16'12" N	72°54'00" W
Station New Haven .....	41°16'12" N	72°54'06" W
Station Brant Point .....	41°17'21" N	70°05'31" W
Group Woods Hole .....	41°17'23" N	70°04'47" W
Station Castle Hill .....	41°27'46" N	71°21'42" W
Group Woods Hole .....	41°17'29" N	70°40'10" W
Boston Area .....	41°40'12" N	70°31'48" W
Station Provincetown .....	42°01'48" N	70°12'42" W
Eastern Point .....	42°36'24" N	70°39'26" W
Cape Blanco .....	42°50'16" N	124°33'52" W
Group North Bend .....	43°24'16" N	124°13'22" W
Group North Bend .....	43°24'35" N	124°14'23" W
Cape Elizabeth .....	43°33'28" N	70°12'00" W
Group South Portland .....	43°38'24" N	70°15'00" W
Group South Portland .....	43°38'45" N	70°14'51" W
Group SW Harbor .....	44°16'19" N	68°18'27" W
Group Southwest Harbor ...	44°16'48" N	68°18'36" W
Fort Stevens, Oregon .....	46°09'14" N	123°53'07" W
Group Astoria .....	46°09'29" N	123°31'48" W
Group Astoria .....	46°09'35" N	123°53'24" W
La Push .....	47°49'00" N	124°37'59" W
Station Quillayute River ....	47°54'49" N	124°38'01" W
Port Angeles .....	48°07'59" N	123°25'59" W
Group Port Angeles .....	48°08'24" N	123°24'35" W
Juneau (Sitka) .....	57°05'24" N	135°15'35" W
Kodiak .....	57°40'47" N	152°28'47" W
Valdez (Cape Hinchinbrook).	60°26'23" N	146°25'48" W

Note: Systems of coordinates comply with NAD 83.

TABLE 2.1—EXCLUSION ZONES FOR MARITIME PUBLIC COAST STATIONS  
[Points of Contact Are Identified in the Commission's License Database]

Licensee name	Location	Latitude	Longitude
Shipcom LLC .....	Marina Del Ray, CA .....	33°56'21" N	118°27'14" W
Globe Wireless .....	Rio Vista, CA .....	38°11'55" N	121°48'34" W
Avalon Communications Corp .....	St. Thomas, VI .....	18°21'19" N	64°56'48" W
Globe Wireless .....	Bishopville, MD .....	38°24'10" N	75°12'59" W
Shipcom LLC .....	Mobile, AL .....	30°40'07" N	88°10'23" W
Shipcom LLC .....	Coden, AL .....	30°22'35" N	88°12'20" W
Globe Wireless .....	Pearl River, LA .....	30°22'13" N	89°47'26" W
Globe Wireless .....	Kahalelani, HI .....	21°10'33" N	157°10'39" W
Globe Wireless .....	Palo Alto, CA .....	37°26'44" N	122°06'48" W

TABLE 2.1—EXCLUSION ZONES FOR MARITIME PUBLIC COAST STATIONS—Continued  
[Points of Contact Are Identified in the Commission's License Database]

Licensee name	Location	Latitude	Longitude
Globe Wireless .....	Agana, GU .....	13°29'22" N	144°49'39" E

NOTE: Systems of coordinates comply with NAD 83.

(ii) *New or relocated Coast stations.* In the unlikely event that a new or relocated coast station is established for the 2.173.5–2.190.5 kHz band at a coordinate not specified in Table 2 or 2.1, Access BPL operations in that frequency band shall also be excluded within 1 km of the new coast station facility;

(3) *Consultation areas.* Access BPL operators shall provide notification to the appropriate point of contact specified regarding Access BPL operations at any frequencies of potential concern in the following consultation areas, at least 30 days prior to initiation of any operation or service. The notification shall include, at a minimum, the information in paragraph (a) of this section. We expect parties to consult in good faith to ensure that no harmful interference is caused to licensed operations and that any constraints on BPL deployments are minimized to those necessary to avoid harmful interference. In the unlikely event that a new or relocated aeronautical receive station is established for the 1.7–30 MHz band at a coordinate not specified in Table 3b, Access BPL operators are also required to coordinate with the appropriate point of contact regarding Access BPL operations at any frequencies of potential concern in the new or relocated consultation areas, and to adjust their system operating parameters to protect the new or relocated aeronautical receive station.

(i) For frequencies in the 1.7–30 MHz frequency range, the areas within 4 km

of facilities located at the following coordinates:

(A) The Commission's protected field offices listed in 47 CFR 0.121, the point-of-contact for which is specified in that section;

(B) The aeronautical stations listed in Tables 3a and 3b;

(C) The land stations listed in Tables 4 and 5;

(ii) For frequencies in the 1.7–80.0 MHz frequency range, the areas within 4 km of facilities located at the coordinates specified for radio astronomy facilities in 47 CFR 2.106, Note U.S. 311.

*Point of contact:* Electromagnetic Spectrum Manager, National Science Foundation, Division of Astronomical Sciences, 4201 Wilson Blvd., Suite 1045, Arlington, VA 22230, (703) 292-4896, [esm@nsf.gov](mailto:esm@nsf.gov).

(iii) For frequencies in the 1.7–80 MHz frequency range, the area within 1 km of the Table Mountain Radio Receiving Zone, the coordinates and point of contact for which are specified in 47 CFR 21.113(b).

(iv) For frequencies in the 1.7–30 MHz frequency range, the areas within 37 km of radar receiver facilities located at the coordinates specified in Table 6.

*Point of contact:* U.S. Coast Guard HQ, Division of Spectrum Management CG-622, 2100 Second St., SW., Rm. 6611, Washington, DC 20593, Tel: (202) 267-6036, Fax: (202) 267-4106, e-mail: [jtaboada@comdt.uscg.mil](mailto:jtaboada@comdt.uscg.mil).

TABLE 3a—CONSULTATION AREA COORDINATES FOR AERONAUTICAL (OR) STATIONS (1.7–30 MHz)

Command name	Location	Latitude	Longitude
Washington .....	Arlington, VA .....	38°51'07" N	77°02'15" W
Cape Cod .....	Cape Cod, MA .....	41°42'00" N	70°30'00" W
Atlantic City .....	Atlantic City, NJ .....	39°20'59" N	74°27'42" W
Elizabeth City .....	Elizabeth City, NC .....	36°15'53" N	76°10'32" W
Savannah .....	Savannah, GA .....	32°01'30" N	81°08'30" W
Miami .....	Opa Locka, FL .....	25°54'22" N	80°16'01" W
Clearwater .....	Clearwater, FL .....	27°54'27" N	82°41' 29" W
Borinquen .....	Aguadilla, PR .....	18°18'36" N	67°04' 48" W
New Orleans .....	New Orleans, LA .....	29°49'31" N	90°02' 06" W
Traverse City .....	Traverse City, MI .....	44°44'24" N	85°34'54" W
San Diego .....	San Diego, CA .....	32°43'33" N	117°10' 15" W

TABLE 3a—CONSULTATION AREA COORDINATES FOR AERONAUTICAL (OR) STATIONS (1.7–30 MHz)—Continued

Command name	Location	Latitude	Longitude
Sacramento .....	McClellan AFB, CA .....	38°40'06" N	121°24'04" W
Astoria .....	Warrenton, OR .....	46°25'18" N	123°47' 46" W
North Bend .....	North Bend, OR .....	43°24'39" N	124°14'35" W
Barbers Point .....	Kapolei, HI .....	21°18'01" N	158°04'15" W
Kodiak .....	Kodiak, AK .....	57°44'19" N	152°30'18" W
Houston .....	Houston, TX .....	29°45'00" N	95°22'00" W
Detroit .....	Mt. Clemens, MI .....	42°36'05" N	82°50'12" W
San Francisco .....	San Francisco, CA .....	37°37'58" N	122°23'20" W
Los Angeles .....	Los Angeles, CA .....	33°56'36" N	118°23'48" W
Humboldt Bay .....	McKinleyville, CA .....	40°58'39" N	124°06'45" W
Port Angeles .....	Port Angeles, WA .....	48°08'25" N	123°24'48" W
Sitka .....	Sitka, AK .....	57°05'50" N	135°21'58" W

NOTE: Systems of coordinates conform to NAD 83.

Point of contact: ARINC, 2551 Riva Road, Annapolis, MD 21401, Tel: 1-800-633-6882, Fax: (410) 266-2329, e-mail: [arincmkt@arinc.com](mailto:arincmkt@arinc.com), <http://www.arinc.com>.

Point of contact: ARINC, 2551 Riva Road, Annapolis, MD 21401, Tel: 1-800-633-6882, Fax: 410-266-2329, e-mail: [bpnotifications@arinc.com](mailto:bpnotifications@arinc.com), <http://www.arinc.com>.

TABLE 3B—CONSULTATION AREA COORDINATES FOR AERONAUTICAL RECEIVE STATIONS (1.7–30 MHz)

Locale	Latitude	Longitude
Southampton, NY .....	40°55'15" N	72°23'41" W
Molokai, HI .....	21°12'23" N	157°12'30" W
Oahu, HI .....	21°22'27" N	158°05'56" W
Half Moon Bay, CA .....	37°39'64" N	122°24'44" W
Pt. Reyes, CA .....	38°06'00" N	122°56'00" W
Barrow, AK .....	71°17'24" N	156°40'12" W
Guam .....	13°28'12" N	144°48'0.0" E (note: Eastern Hemisphere)
NY Comm Center, NY .....	40°46'48" N	73°05'46" W
Cedar Rapids, IA .....	42°02'05.0" N	91°38'37.6" W
Beaumont, CA .....	33°54'27.1" N	116°59'49.1" W
Fairfield, TX .....	31°47'02.6" N	96°47'03.0" W
Houston, TX .....	29°36'35.8" N	95°16'54.8" W
Miami, FL .....	25°49'05" N	80°18'28" W

Note: Systems of coordinates conform to NAD 83.

Point of contact: U.S. Coast Guard Washington, DC 20593, Tel: (202) 267-HQ, Division of Spectrum Management 6036, Fax: (202) 267-4106, e-mail: [jtaboada@comdt.uscg.mil](mailto:jtaboada@comdt.uscg.mil), CG-622, 2100 Second St., SW., Rm. 6611,

TABLE 4—CONSULTATION AREA COORDINATES FOR LAND STATIONS, SET 1 (1.7–30 MHz)

Command name	Location	Latitude	Longitude
COMMSTA Boston .....	Maspee, MA .....	41°24'00" N	70°18'57" W
Camslant .....	Chesapeake, VA .....	36°33'59" N	76°15'23" W
COMMSTA Miami .....	Miami, FL .....	25°36'58" N	80°23'04" W
COMMSTA New Orleans .....	Belle Chasse, LA .....	29°52'40" N	89°54'46" W
Campac .....	Pt. Reyes Sta, CA .....	38°06'00" N	122°55'48" W
COMMSTA Honolulu .....	Wahiawa, HI .....	21°31'08" N	157°59'28" W
COMMSTA Kodiak .....	Kodiak, AK .....	57°04'26" N	152°28'20" W
Guam .....	Finegayan, GU .....	13°53'08" N	144°50'20" E

NOTE: Systems of coordinates conform to NAD 83.

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Point of contact: COTHEN Technical Support Center, COTHEN Program Manager, Tel: (800) 829-6336.

TABLE 5—CONSULTATION AREA COORDINATES FOR LAND STATIONS, SET 2 (1.7–30 MHz)

Site name	Latitude	Longitude
Albuquerque, NM .....	35°05'02" N	105°34'23" W
Arecibo, PR .....	18°17'26" N	66°22'33" W
Atlanta, GA .....	32°33'06" N	84°23'35" W
Beaufort, SC .....	34°34'22" N	76°09'48" W
Cape Charles, VA .....	37°05'37" N	75°58'06" W
Cedar Rapids, IA .....	42°00'09" N	91°17'39" W
Denver, CO .....	39°15'45" N	103°34'23" W
Fort Myers, FL .....	81°31'20" N	26°20'01" W
Kansas City, MO .....	38°22'10" N	93°21'48" W
Las Vegas, NV .....	36°21'15" N	114°17'33" W
Lovelock, NV .....	40°03'07" N	118°18'56" W
Memphis, TN .....	34°21'57" N	90°02'43" W
Miami, FL .....	25°46'20" N	80°28'48" W
Morehead City, NC .....	34°34'50" N	78°13'59" W
Oklahoma City, OK .....	34°30'52" N	97°30'52" W
Orlando, FL .....	28°31'30" N	80°48'58" W
Reno, NV .....	38°31'12" N	119°14'37" W
Sarasota, FL .....	27°12'41" N	81°31'20" W
Wilmington, NC .....	34°29'24" N	78°04'31" W

NOTE: Systems of coordinates conform to NAD 83.

Point Of Contact: ROTH Deputy Program Manager, (540) 653-3624.

TABLE 6—CONSULTATION AREA COORDINATES FOR RADAR RECEIVER STATIONS (1.7–30 MHz)

Latitude/Longitude
18°01' N/66°30' W
28°05' N/98°43' W
36°34' N/76°18' W

NOTE: Systems of coordinates conform to NAD 83.

[70 FR 1374, Jan. 7, 2005, as amended at 71 FR 49379, Aug. 23, 2006]

### Subpart H—Television Band Devices

SOURCE: 74 FR 7326, Feb. 17, 2009, unless otherwise noted.

#### § 15.701 Scope.

This subpart sets out the regulations for Television Band Devices (TVBDs) which are unlicensed intentional radiators operating on available channels in the broadcast television frequency bands at 54–60 MHz, 76–88 MHz, 174–216 MHz, 470–608 MHz and 614–698 MHz bands.

#### § 15.703 Definitions.

(a) *Available channel*. A television channel which is not being used by an authorized user at or near the same ge-

ographic location as the TVBD and is acceptable for use by an unlicensed device under the provisions of § 15.709. A TVBD determines television channel availability either from the TV bands database or spectrum sensing.

(b) *Client device*. A TVBD operating in client mode.

(c) *Client mode*. An operating mode in which the transmissions of the TVBD, including frequencies of operation, are under control of the master device. A device in client mode is not able to initiate a network.

(d) *Fixed device*. A TVBD that transmits and/or receives radiocommunication signals at a specified fixed location. Fixed TVBDs may operate as part of a system, transmitting to one or more fixed TVBDs or to personal/portable TVBDs.

(e) *Geo-location*. The capability of a TVBD to determine its geographic coordinates within a specified level of accuracy.

(f) *Master device*. A TVBD operating in master mode.

(g) *Master mode*. An operating mode in which the TVBD has the capability to transmit without receiving an enabling signal. The TVBD is able to select a channel itself based on a list provided by the database and initiate a network by sending enabling signals to other devices. A network always has at least one device operating in master mode.

(h) *Mode I operation*. Operation of a personal/portable TVBD operating only on the available channel identified by either the fixed TVBD or Mode II TVBD that enables its operation. Mode I operation does not require use of a geo-location capability or access to the TV bands database and requires operation in client mode.

(i) *Mode II operation*. Operation of a personal/portable TVBD whereby the device determines the available channels at its location using its own geo-location and TV bands database access capabilities. Devices operating in Mode II may function as master devices.

(j) *Network initiation*. The process by which a fixed or Mode II TVBD sends control signals to another similar device or to a client device(s) and allows them to begin transmissions.