



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-02306

Wednesday September 30, 2020

Satellite Communications Services re: Satellite Radio Applications Accepted For Filing

The applications listed herein have been found, upon initial review, to be acceptable for filing. The Commission reserves the right to return any of the applications if, upon further examination, it is determined they are defective and not in conformance with the Commission's Rules and Regulations and its Policies. Final action will not be taken on any of these applications earlier than 30 days following the date of this notice. 47 U.S.C. § 309(b). All applications accepted for filing will be assigned call signs, or other unique station identifiers. However, these assignments are for administrative purposes only and do not in any way prejudice Commission action.

SES-AMD-20200220-00178 E E190649 SpaceX Services, Inc.

Amendment

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

See IBFS File No. SES-LIC-20190816-01063 for a description of this application.

SITE ID: 1

LOCATION: 1500 ME-8 (Loring ME Gateway), Aroostook, Limestone, ME
46 ° 54 ' 53.70 " N LAT. 67 ° 55 ' 10.30 " W LONG.

ANTENNA ID:	LO-1	1.47 meters	SpaceX	1.47M
	29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64QAM; Digital Data
	27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64QAM; Digital Data
	18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data
	17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data

Points of Communication:

1 - SPACEX (S2983/3018) - (NGSO)

SES-AMD-20200605-00606 E E190648 SpaceX Services, Inc.

Amendment

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

See IBFS File No. SES-LIC-20190816-01062 for a description of this application.

SITE ID: 1
LOCATION: 250 Dusty Rd (Conrad MT Gateway), Pondera, Conrad, MT
48 ° 12 ' 11.90 " N LAT. 111 ° 56 ' 43.00 " W LONG.

ANTENNA ID:	CO-1	1.47 meters	SpaceX	1.47M
	29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64QAM; Digital Data
	27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64QAM; Digital Data
	18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data
	17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data

Points of Communication:

1 - SPACEEX (S2983/3018) - (NGSO)

SES-LIC-20190816-01062 E E190648 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

This application is returned to the accepted for filing public notice because SpaceX submitted IBFS File No. SES-AMD-20200605-00606 to provide additional information that earth stations will communicate only with those SpaceX satellites that are visible on the horizon above a minimum elevation angle. This angle may be as low as 25 degrees, and thus SpaceX Services has used this minimum elevation angle in its analysis in order to capture the full potential range of service. Further SpaceX, pursuant to Section 25.136(a)(4) of the Commission's rules defines four elements that allow this station to operate, without providing additional interference protection to terrestrial systems in the Upper Microwave Flexible Use Service (UMFUS) operating in the 27.5-28.35 GHz band.

SITE ID: 1
LOCATION: 250 Dusty Rd (Conrad MT Gateway), Pondera, Conrad, MT
48 ° 12 ' 11.90 " N LAT. 111 ° 56 ' 43.00 " W LONG.

ANTENNA ID:	CO-1	1.47 meters	SpaceX	1.47M
	17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data
	18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data
	27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64QAM; Digital Data
	29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64QAM; Digital Data

Points of Communication:

1 - SPACEEX (S2983/3018) - (NGSO)

SES-LIC-20190816-01063 E E190649 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

This application has been amended by IBFS File Number SES-AMD-20200220-00178 to operate this Ka-band gateway with eight technically identical 1.5-meter antennas in Loring, Maine. SpaceX originally applied for authority to transmit in the 28.35-29.1 GHz and 29.5-30.0 GHz bands and receive in the 17.8-18.6 GHz and 18.8-19.3 GHz bands. However, it deferred in requesting authority to operate this earth station in the 27.5-28.35 GHz band designated for use by the Upper Microwave Flexible Use Service (UMFUS) on a primary basis, with a secondary designation for FSS.

SpaceX has completed its analysis of the Loring Gateway site so that it can demonstrate compliance with the requirements of Section 25.136(a)(4) of the Commission's rules such that this earth station may operate without providing additional interference protection to terrestrial UMFUS systems operating in the band. Technical Appendix A demonstrates that the Loring Gateway will satisfy the criteria set forth in Section 25.136(a)(4).

SpaceX also submits with this amendment updated antenna performance information for its gateway operations. SpaceX will comply with a mask similar to the one in Section 25.209(a)(3) applicable to earth station antennas operating in the 24.75-25.25 GHz and 28.35-30.0 GHz bands with geostationary satellites but will improve that pattern to -3 dBi (rather than 0 dBi) beyond 25 degrees off-axis.

SITE ID: 1

LOCATION: 1500 ME-8 (Loring ME Gateway), Aroostook, Limestone, ME
46 ° 54 ' 53.70 " N LAT. 67 ° 55 ' 10.30 " W LONG.

ANTENNA ID:	LO-1	1.47 meters	SpaceX	1.47M
	17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data
	18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64QAM; Digital Data
	27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64QAM; Digital Data
	29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64QAM; Digital Data

Points of Communication:

1 - SPACEX (S2983/3018) - (NGSO)

SES-LIC-20200610-00614 E E202040 GUSA Licensee LLC

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service, Mobile Satellite Service

SITE ID: 1

LOCATION: 848 County Road 4290 (CLFN-7), Bosque, Clifton, TX
31 ° 48 ' 2.15 " N LAT. 97 ° 36 ' 44.37 " W LONG.

ANTENNA ID:	CLFN-7	6 meters	SeaTel	SeaTel Tracker T6000
	5091.0000 - 5092.0000 MHz	76K0F2D	68.00 dBW	FM subcarrier on telecommand carrier
	6875.9500 - 6877.1500 MHz	7K00G1D		Telemetry carrier
	5096.0000 - 5250.0000 MHz	1M23XXX	59.00 dBW	White noise modulated carrier for testing

6900.0000 - 7055.0000 MHz	1M23XXX		White noise modulated carrier for testing
5096.0000 - 5250.0000 MHz	N0N	59.00 dBW	Unmodulated CW for testing
6900.0000 - 7055.0000 MHz	N0N		Unmodulated CW for testing
5096.0000 - 5250.0000 MHz	1M23G7W	55.00 dBW	CDMA/voice and data
6900.0000 - 7055.0000 MHz	1M23G7W		CDMA/voice and data
5096.0000 - 5250.0000 MHz	1M23G2W	55.00 dBW	CDMA/for single-carrier AMSS
6900.0000 - 7055.0000 MHz	1M23G2W		CDMA/for single-carrier AMSS
6900.0000 - 7055.0000 MHz	2M50G2D		Direct sequence CDMA for single-carrier telemetry data
5096.0000 - 5250.0000 MHz	2M46G7W	55.00 dBW	CDMA/voice and data
6900.0000 - 7055.0000 MHz	2M46G7W		CDMA/voice and data
5096.0000 - 5250.0000 MHz	2M46G2W	55.00 dBW	CDMA/for single-carrier AMSS
6900.0000 - 7055.0000 MHz	2M46G2W		CDMA/for single-carrier AMSS
5091.3800 - 5091.6200 MHz	40K0G2D	68.00 dBW	Telecommand carrier
6875.9000 - 6879.1000 MHz	70K0G7D		Telemetry carrier

Points of Communication:

1 - GLOBALSTAR (S2115) - (NGSO)

1 - GLOBALSTAR 2.0 - (NGSO)

SES-LIC-20200616-00645 E E202111 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (Tionesta CA Gateway), Modoc, Tionesta, CA

41 ° 38 ' 38.40 " N LAT.

121 ° 19 ' 47.90 " W LONG.

ANTENNA ID: CO-1 1.47 meters SpaceX 1.47M

17800.0000 - 18600.0000 MHz 480MD7W 0.00 dBW Modulation and Services BPSK up to 64 QAM; Digital Data

18800.0000 - 19300.0000 MHz 480MD7W 0.00 dBW Modulation and Services BPSK up to 64 QAM; Digital Data

27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data

Points of Communication:

1 - SPACEEX (S2983/3018) - (NGSO)

SES-LIC-20200616-00646 E E202112 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (Baxley GA Gateway), Appling, Baxley, GA
 31 ° 40 ' 55.80 " N LAT. 82 ° 16 ' 8.30 " W LONG.

ANTENNA ID: CO-1 1.47 meters SpaceX 1.47M

17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data

Points of Communication:

1 - SPACEEX (S2983/3018) - (NGSO)

SES-LIC-20200616-00647 E E202113 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (Colburn ID Gateway), Bonner, Colburn
 48 ° 20 ' 42.90 " N LAT. 116 ° 26 ' 21.60 " W LONG.

ANTENNA ID: CO-1 1.47 meters SpaceX 1.47M

17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data

27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data

Points of Communication:

1 - SPACEEX (S2983/3018) - (NGSO)

SES-LIC-20200616-00649 E E202114 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (Hitterdal MN Gateway), Clay, Hitterdal, MN
 46 ° 58 ' 44.10 " N LAT. 96 ° 15 ' 28.90 " W LONG.

ANTENNA ID: CO-1 1.47 meters SpaceX 1.47M

17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data

Points of Communication:

1 - SPACEEX (S2983/3018) - (NGSO)

SES-LIC-20200616-00650 E E202115 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (Robertsdale, AL Gate), Baldwin, Robertsdale, AL
 30 ° 34 ' 1.20 " N LAT. 87 ° 38 ' 45.60 " W LONG.

ANTENNA ID: CO-1 1.47 meters SpaceX 1.47M

17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data

27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data
29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	Modulation and Services BPSK up to 64 QAM; Digital Data

Points of Communication:

1 - SPACEX (S2983/3018) - (NGSO)

SES-LIC-20200903-00965 E E202149 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (Kuparuk, AK Gateway), North Slope Borough, Kuparuk, AK
70 ° 19 ' 3.60 " N LAT. 148 ° 56 ' 28.30 " W LONG.

ANTENNA ID: CO-1 1.47 meters SpaceX 1.47M

17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data

Points of Communication:

1 - SPACEX (S2983/3018) - (NGSO)

SES-LIC-20200903-00966 E E202151 SpaceX Services, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (Tracy City TN Gatewa), Marion, Tracy City, TN
35 ° 11 ' 50.10 " N LAT. 85 ° 39 ' 57.60 " W LONG.

ANTENNA ID: CO-1 1.47 meters SpaceX 1.47M

17800.0000 - 18600.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
18800.0000 - 19300.0000 MHz	480MD7W	0.00 dBW	BPSK up to 64 QAM; Digital Data
27500.0000 - 29100.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data
29500.0000 - 30000.0000 MHz	480MD7W	60.50 dBW	BPSK up to 64 QAM; Digital Data

Points of Communication:

1 - SPACEEX (S2983/3018) - (NGSO)

SES-MOD-20190415-00509 E E910021 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Chena Hot Springs, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L. orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1

LOCATION: 56.5 CHENA HOT SPRINGS, FAIRBANKS N STAR B, CHENA HOT SPRINGS, AK
65 ° 3 ' 8.00 " N LAT. 146 ° 3 ' 8.00 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORP.	ESA45-46
	5925.0000 - 6425.0000 MHz	1M15G7W	62.22 dBW	QPSK, VOICE, DATA, FEC 7/8, ADPCM
	3700.0000 - 4200.0000 MHz	1M15G7W		QPSK, VOICE, DATA, FEC 7/8, ADPCM
ANTENNA ID:	2	1.2 meters	GEN DYNAMICS	3122
	29500.0000 - 30000.0000 MHz	29K0G7W	29.16 dBW	DIGITAL VOICE
	29500.0000 - 30000.0000 MHz	15M0G7W	56.30 dBW	DIGITAL VOICE
	19700.0000 - 20200.0000 MHz	29K0G7W		DIGITAL VOICE
	19700.0000 - 20200.0000 MHz	15M0G7W		DIGITAL VOICE

Points of Communication:

1 - PERMITTED LIST - ()

1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

SES-MOD-20191022-01356 E E100123 MCI Communications Services, LLC

Application for Modification

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

MCI Communications Services, Inc (Verizon) requests modification of its VSAT Network to add an additional VSAT hub and remote antennas to provide digital video and data services. The new antennas will be used to facilitate customer communication requirements including full-time traffic, back-up services, and disaster recovery such as hurricanes and other natural disasters as well as terrestrial service outages.

SITE ID: REMOTE2

LOCATION: (1.8M. VSAT) 3000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R2	1.8 meters	GD SATCOM	1184
	14000.0000 - 14500.0000 MHz		36M0G7D 66.50 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		150KG7D 48.23 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		36M0G7D	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		1M20G7D	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE3
LOCATION: (2.4M. VSAT) PRO 1000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 3PRO	2.4 meters	PRODELIN	1251
	14000.0000 - 14500.0000 MHz		2M50G7W 60.66 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 51.11 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE4
LOCATION: (1.2M. VSAT) PAT 6000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 4PAT	1.2 meters	PATRIOT	TX-INT120KU
	14000.0000 - 14500.0000 MHz		2M50G7W 54.86 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 45.31 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE5
LOCATION: (1.8M. VSAT) PAT 3000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 5PAT	1.8 meters	PATRIOT	TX-INT180KU
	14000.0000 - 14500.0000 MHz		2M50G7W 58.46 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 48.91 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE8
LOCATION: (1.8M. VSAT) CM 3000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 8	1.8 meters	CHANNEL MASTER	TYPE183
	14000.0000 - 14500.0000 MHz		36M0G7D 66.80 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		150KG7D 48.53 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		36M0G7D	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		1M20G7D	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE10
LOCATION: (2.4M. VSAT) CM 1000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 10CM	2.4 meters	CHANNEL MASTER	TYPE 243
	14000.0000 - 14500.0000 MHz		2M50G7W 60.76 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 51.21 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE11
LOCATION: (.95M. VSAT) PRO 3000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 11PRO	0.95 meters	PRODELIN	1951
	14000.0000 - 14500.0000 MHz		2M50G7W 52.34 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 43.11 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE12
LOCATION: (.98M. VSAT) PRO 3000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 12PRO	0.98 meters	PRODELIN	1981
	14000.0000 - 14500.0000 MHz		2M50G7W 52.76 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 43.21 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE13
LOCATION: (1.2M. VSAT) PRO 6000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 13PRO	1.2 meters	PRODELIN	1134	
	14000.0000 - 14500.0000 MHz		2M50G7W	54.46 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W	44.91 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: REMOTE14
LOCATION: (1.2M. VSAT) PRO 6000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 14PRO	1.2 meters	PRODELIN	1138	
	14000.0000 - 14500.0000 MHz		2M50G7W	54.66 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W	45.11 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: REMOTE15
LOCATION: (1.8M. VSAT) PRO 3000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 15PRO	1.8 meters	PRODELIN	1189	
	14000.0000 - 14500.0000 MHz		2M50G7W	56.76 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W	47.21 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: REMOTE6
LOCATION: (2.4M. VSAT) PAT 1000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 6PAT	2.4 meters	PATRIOT	TXFCC-240KUS	
	14000.0000 - 14500.0000 MHz		2M50G7W	61.06 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W	51.51 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: REMOTE7
LOCATION: (1.2M. VSAT) CM 6000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R7	1.2 meters	CHANNEL MASTER	TYPE 123
	14000.0000 - 14500.0000 MHz		24M0G7D 59.32 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		150KG7D 45.03 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		36M0G7D	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		1M20G7D	DIGITAL VIDEO, AND DATA

SITE ID: YAC R17
LOCATION: 604 E. HOAG ST. (.96M. VSAT) CM, CLARK, YACOLT/3000 UNITS, WA
45 ° 51 ' 43.00 " N LAT.

ANTENNA ID:	R 17CM	0.96 meters	CHANNEL MASTER	TYPE 960
	14000.0000 - 14500.0000 MHz		2M50G7W 52.66 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 43.11 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: YAC R18
LOCATION: 604 E. HOAG ST. (1.0M. VSAT) PAT, CLARK, YACOLT/3000 UNITS, WA
45 ° 51 ' 43.00 " N LAT. 122 ° 23 ' 46.00 " W LONG.

ANTENNA ID:	R 18PAT	1 meters	PATRIOT	TX-INT100KUG
	14000.0000 - 14500.0000 MHz		2M50G7W 53.36 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 43.81 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE19
LOCATION: (1.2M. VSAT) PAT 6000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 19PAT	1.2 meters	PATRIOT	TXFLY-120KU
	14000.0000 - 14500.0000 MHz		2M50G7W 54.96 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W 45.41 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W	DIGITAL VIDEO, AND DATA

SITE ID: REMOTE20
LOCATION: (1.8M. VSAT) PAT 3000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 20PAT	1.8 meters	PATRIOT	TXFLY-180KU	
	14000.0000 - 14500.0000 MHz		2M50G7W	50.96 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W	41.41 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: REMOTE21
LOCATION: (.98M. VSAT) PRO 3000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 21PRO	0.98 meters	PRODELIN	1984	
	14000.0000 - 14500.0000 MHz		2M50G7W	52.76 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W	43.21 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: REMOTE22
LOCATION: (1.8M. VSAT) PRO 1000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 22PRO	1.8 meters	PRODELIN	2194	
	14000.0000 - 14500.0000 MHz		2M50G7W	58.16 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W	48.61 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: REMOTE23
LOCATION: (2.4M. VSAT) PRO 1000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 23PRO	2.4 meters	PRODELIN	2244	
	14000.0000 - 14500.0000 MHz		2M50G7W	59.06 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz		156KG7W	49.51 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz		156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: REMOTE16
LOCATION: (2.4M. VSAT) CM 1000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	R 16PRO	2.4 meters	PRODELIN	1259
	14000.0000 - 14500.0000 MHz	2M50G7W	60.66 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	156KG7W	51.11 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: YAC 21(2)
LOCATION: 604 E. HOAG ST. (.98M. VSAT) PRO, CLARK, YACOLT/3000 UNITS, WA
45 ° 51 ' 43.00 " N LAT. 122 ° 23 ' 46.00 " W LONG.

ANTENNA ID:	R21(2)	0.98 meters	PRODELIN	1984
	14000.0000 - 14500.0000 MHz	2M50G7W	52.76 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	156KG7W	43.21 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: AND
LOCATION: 494 ROXBURY POND ROAD ROUTE 120/6.1M.& 9.0M., OXFORD, ANDOVER, ME
44 ° 37 ' 57.30 " N LAT. 70 ° 41 ' 56.10 " W LONG.

ANTENNA ID:	AND-10	6.1 meters	VERTEX	6.1KPK
	14000.0000 - 14500.0000 MHz	36M0G7D	82.84 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	1M20G7D	68.07 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	9M75G7D		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	150KG7D		DIGITAL VIDEO, AND DATA

ANTENNA ID:	ANDHUB02	9 meters	VERTEX/RSI	9.0M
	14000.0000 - 14500.0000 MHz	36M0G7D	85.64 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	1M20G7D	70.87 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	36M0G7D	85.64 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	1M20G7D	70.87 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	9M75G7D		DIGITAL VIDEO, AND DATA

11700.0000 - 12200.0000 MHz	150KG7D	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	150KG7D	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	9M75G7D	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D	DIGITAL VIDEO, AND DATA

SITE ID: YAC
LOCATION: 604 E. HOAG ST. (HUB01-7.6M. & HUB02-9.0M.), CLARK, YACOLT, WA
45 ° 51 ' 43.00 " N LAT. 122 ° 23 ' 46.00 " W LONG.

ANTENNA ID: HUB01	7.6 meters	ANDREW	ES76K-1
14000.0000 - 14500.0000 MHz	36M0G7D	84.54 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	1M20G7D	69.77 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	9M75G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	150KG7D		DIGITAL VIDEO, AND DATA

ANTENNA ID: HUB02	9 meters	VERTEX/RSI	9.0M
11700.0000 - 12200.0000 MHz	150KG7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	9M75G7D		DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	1M20G7D	70.87 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	36M0G7D	85.64 dBW	DIGITAL VIDEO, AND DATA

ANTENNA ID: YACHUB02	9 meters	Vertex/RSI	9.0M
11700.0000 - 12200.0000 MHz	150KG7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	1M20G7D	70.87 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	36M0G7D	85.64 dBW	DIGITAL VIDEO, AND DATA

SITE ID: PLNO
LOCATION: 1901 10TH STREET, SUITE 100 (HUB05-6.3M.), COLLIN, PLANO, TX
33 ° 0 ' 47.00 " N LAT. 96 ° 41 ' 13.00 " W LONG.

ANTENNA ID: HUB05	6.3 meters	GD SATCOM	6.3M.
14000.0000 - 14500.0000 MHz	36M0G7D	80.49 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	1M20G7D	68.27 dBW	DIGITAL VIDEO, AND DATA

11700.0000 - 12200.0000 MHz	9M75G7D	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	150KG7D	DIGITAL VIDEO, AND DATA

SITE ID: RCH
LOCATION: 400 INTERNATIONAL PARKWAY (HUB04-4.9M.), DALLAS, RICHARDSON, TX
32 ° 57 ' 15.00 " N LAT. 96 ° 42 ' 25.00 " W LONG.

ANTENNA ID: HUB04	4.9 meters	GD SATCOM	ES49MPJ-1
14000.0000 - 14500.0000 MHz	36M0G7D	80.64 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	1M20G7D	65.87 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	9M75G7D	DIGITAL VIDEO, AND DATA	
11700.0000 - 12200.0000 MHz	150KG7D	DIGITAL VIDEO, AND DATA	

SITE ID: REMOTE
LOCATION: (1.8M. VSAT) GD SATCOM 3000 UNITS/MULTIPLES, CONUS, USA, PR VI

ANTENNA ID: R2B	1.8 meters	GD SATCOM	1184
14000.0000 - 14500.0000 MHz	150KG7D	48.23 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	4M16G7D	57.96 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D	DIGITAL VIDEO, AND DATA	
11700.0000 - 12200.0000 MHz	1M20G7D	DIGITAL VIDEO, AND DATA	

ANTENNA ID: R24	1.2 meters	TRACSTAR	1200
14000.0000 - 14500.0000 MHz	2M43G7D	54.66 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	44.93 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D	DIGITAL VIDEO, AND DATA	
11700.0000 - 12200.0000 MHz	1M20G7D	DIGITAL VIDEO, AND DATA	

ANTENNA ID: R25	1.8 meters	TRACSTAR	1800
14000.0000 - 14500.0000 MHz	4M16G7D	58.16 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	48.43 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D	DIGITAL VIDEO, AND DATA	
11700.0000 - 12200.0000 MHz	1M20G7D	DIGITAL VIDEO, AND DATA	

ANTENNA ID: R26	1.2 meters	COBHAM	5120
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14000.0000 - 14500.0000 MHz	2M43G7D	54.36 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	44.63 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R27	1.2 meters	COBHAM	7120
14000.0000 - 14500.0000 MHz	2M43G7D	54.46 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	44.73 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R28	0.75 meters	SKYWARE GLOBAL	756
14000.0000 - 14500.0000 MHz	950KG7D	48.24 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	192KG7D	41.29 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R29	1 meters	SEATEL	4006
14000.0000 - 14500.0000 MHz	950KG7D	49.14 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	192KG7D	42.19 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R30	2.4 meters	SEATEL	9711
14000.0000 - 14500.0000 MHz	9M75G7D	60.76 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	51.03 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R31	1.2 meters	GD SATCOM	1132
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA

11700.0000 - 12200.0000 MHz	1M20G7D			DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	24M0G7D	59.22 dBW		DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	44.93 dBW		DIGITAL VIDEO, AND DATA
ANTENNA ID: R32	0.75 meters	NEWTEC		2010
14000.0000 - 14500.0000 MHz	4M00G7D	51.04 dBW		DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	189KG7D	41.75 dBW		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D			DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D			DIGITAL VIDEO, AND DATA
ANTENNA ID: R33	1 meters	NEWTEC		2025
14000.0000 - 14500.0000 MHz	4M00G7D	53.54 dBW		DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	189KG7D	44.25 dBW		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D			DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D			DIGITAL VIDEO, AND DATA
ANTENNA ID: R34	1.2 meters	AVL		1098
14000.0000 - 14500.0000 MHz	24M0G7D	59.12 dBW		DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	44.83 dBW		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D			DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D			DIGITAL VIDEO, AND DATA
ANTENNA ID: R35	1.2 meters	AVL		1200
14000.0000 - 14500.0000 MHz	24M0G7D	59.12 dBW		DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	44.83 dBW		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D			DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D			DIGITAL VIDEO, AND DATA
ANTENNA ID: R36	1.2 meters	AVL		1278
14000.0000 - 14500.0000 MHz	24M0G7D	59.12 dBW		DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	44.83 dBW		DIGITAL VIDEO, AND DATA

	11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	150KG7D		DIGITAL VIDEO, AND DATA
ANTENNA ID:	R37	1.2 meters	AVL	1258
	14000.0000 - 14500.0000 MHz	24M0G7D	59.22 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	150KG7D	44.93 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID:	R38	1.8 meters	AVL	1878
	14000.0000 - 14500.0000 MHz	36M0G7D	66.70 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	150KG7D	48.43 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID:	R39	0.75 meters	TRACSTAR	750
	14000.0000 - 14500.0000 MHz	4M00G7D	51.34 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	189KG7D	42.05 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID:	R40	1 meters	TRACSTAR	1000
	14000.0000 - 14500.0000 MHz	4M00G7D	53.44 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	189KG7D	44.15 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID:	R41	2.4 meters	GD SATCOM	1241
	14000.0000 - 14500.0000 MHz	36M0G7D	69.20 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	150KG7D	50.93 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA

11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R13	1.2 meters	GD SATCOM	1134
14000.0000 - 14500.0000 MHz	24M0G7D	59.02 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	44.73 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R22	1.8 meters	GD SATCOM	2194
14000.0000 - 14500.0000 MHz	36M0G7D	66.70 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	48.43 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R23	2.4 meters	GD SATCOM	1244
14000.0000 - 14500.0000 MHz	36M0G7D	67.60 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	150KG7D	49.33 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	1M20G7D		DIGITAL VIDEO, AND DATA
ANTENNA ID: R31	1.2 meters	GD SATCOM	1132
SITE ID: MJS			
LOCATION: 1295 INDUSTRIAL PARK RD. (9.0M. HUB), SHENANDOAH, QUICKSBURG, VA			
38 ° 43 ' 45.40 " N LAT.		78 ° 39 ' 25.10 " W LONG.	
ANTENNA ID: MJSHUB02	9 meters	VERTEX/RSI	9.0M.
14000.0000 - 14500.0000 MHz	1M20G7D	70.87 dBW	DIGITAL VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	36M0G7D	85.64 dBW	DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	9M75G7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	150KG7D		DIGITAL VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL VIDEO, AND DATA
SITE ID: REMOTE1			
LOCATION: (1.2M. VSAT) PRO 6000 UNITS, CONUS, AK, HI, PR VI			

ANTENNA ID:	R1PRO	1.2 meters	PRODELIN	1123
	14000.0000 - 14500.0000 MHz	2M50G7W	54.66 dBW	DIGITAL VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	156KG7W	45.11 dBW	DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	2M50G7W		DIGITAL VIDEO, AND DATA
	11700.0000 - 12200.0000 MHz	156KG7W		DIGITAL VIDEO, AND DATA

SITE ID: Remote31
LOCATION: (1.2M. VSAT) GD SATCOM 40000 UNITS

Points of Communication:

- AND - PERMITTED LIST - ()
- MJS - PERMITTED LIST - ()
- PLNO - PERMITTED LIST - ()
- RCH - PERMITTED LIST - ()
- REMOTE - PERMITTED LIST - ()
- REMOTE1 - PERMITTED LIST - ()
- REMOTE10 - PERMITTED LIST - ()
- REMOTE11 - PERMITTED LIST - ()
- REMOTE12 - PERMITTED LIST - ()
- REMOTE13 - PERMITTED LIST - ()
- REMOTE14 - PERMITTED LIST - ()
- REMOTE15 - PERMITTED LIST - ()
- REMOTE16 - PERMITTED LIST - ()
- REMOTE19 - PERMITTED LIST - ()
- REMOTE2 - PERMITTED LIST - ()
- REMOTE20 - PERMITTED LIST - ()
- REMOTE21 - PERMITTED LIST - ()
- REMOTE22 - PERMITTED LIST - ()
- REMOTE23 - PERMITTED LIST - ()
- REMOTE3 - PERMITTED LIST - ()
- REMOTE4 - PERMITTED LIST - ()

REMOTE5 - PERMITTED LIST - ()

REMOTE6 - PERMITTED LIST - ()

REMOTE7 - PERMITTED LIST - ()

REMOTE8 - PERMITTED LIST - ()

YAC - PERMITTED LIST - ()

YAC R17 - PERMITTED LIST - ()

YAC R18 - PERMITTED LIST - ()

SES-MOD-20191106-01416 E E2266 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Stoney River, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L. orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1

LOCATION: NSN COFFE POT RD, STONEY RIVER, STONEY RIVER, AK

61 ° 47 ' 12.00 " N LAT.

156 ° 35 ' 8.00 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW	ESA45T
	5925.0000 - 6425.0000 MHz	13M9G1D	59.70 dBW	VARIOUS PSK & QAM - DATA
	5925.0000 - 6425.0000 MHz	29K0G1D	51.60 dBW	VARIOUS PSK & QAM - DATA
	5925.0000 - 6425.0000 MHz	13M9G7W	59.70 dBW	VARIOUS PSK & QAM - VOICE AND DATA
	5925.0000 - 6425.0000 MHz	57K0G7W	54.60 dBW	VARIOUS PSK & QAM - VOICE AND DATA
	3700.0000 - 4200.0000 MHz	13M9G1D	0.00 dBW	VARIOUS PSK & QAM - DATA
	3700.0000 - 4200.0000 MHz	29K0G1D	0.00 dBW	VARIOUS PSK & QAM - DATA
	3700.0000 - 4200.0000 MHz	13M9G7W	0.00 dBW	VARIOUS PSK & QAM - VOICE AND DATA
	3700.0000 - 4200.0000 MHz	57K0G7W	0.00 dBW	VARIOUS PSK & QAM - VOICE AND DATA
ANTENNA ID:	2	1.2 meters	GEN DYNAMICS	3122
	29500.0000 - 30000.0000 MHz	15M0G7W	56.30 dBW	DIGITAL DATA
	29500.0000 - 30000.0000 MHz	29K0G7W	29.16 dBW	DIGITAL DATA

19700.0000 - 20200.0000 MHz	15M0G7W	DIGITAL DATA
19700.0000 - 20200.0000 MHz	29K0G7W	DIGITAL DATA

Points of Communication:

1 - PERMITTED LIST - ()

1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

SES-MOD-20191106-01419 E E6394 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Takotna, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L. orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1

LOCATION: NSN TAKOTNA, YUKON-KOYUKUK, TAKOTNA, AK

62 ° 59 ' 18.70 " N LAT.

154 ° 10 ' 1.40 " W LONG.

ANTENNA ID: 1	4.5 meters	ANDREW CORPORATION	ESA5-46A
5925.0000 - 6425.0000 MHz	1M15G7W	62.82 dBW	QPSK, VOICE, DATA, FEC 7/8, ADPCM
3700.0000 - 4200.0000 MHz	1M15G7W		QPSK, VOICE, DATA, FEC 7/8, ADPCM
ANTENNA ID: 2	1.2 meters	GEN DYNAMICS	3122
29500.0000 - 30000.0000 MHz	15M0G7W	56.30 dBW	DIGITAL DATA
29500.0000 - 30000.0000 MHz	29K0G7W	29.16 dBW	DIGITAL DATA
19700.0000 - 20200.0000 MHz	15M0G7W		DIGITAL DATA
19700.0000 - 20200.0000 MHz	29K0G7W		DIGITAL DATA

Points of Communication:

1 - PERMITTED LIST - ()

1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

SES-MOD-20191106-01462 E E920677 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Whale Pass, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L. orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1
 LOCATION: USFS ROAD #3065, POW-HYDER, WHALE PASS, AK
 56 ° 6 ' 57.70 " N LAT. 133 ° 7 ' 19.20 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA45-46
	5925.0000 - 6425.0000 MHz		1M15G7W 59.20 dBW	QPSK, T1, ADPCM
	3700.0000 - 4200.0000 MHz		1M15G7W	QPSK, T1, ADPCM
ANTENNA ID:	2	1.2 meters	GEN DYNAMICS	3122
	29500.0000 - 30000.0000 MHz		15M0G7W 56.30 dBW	DIGITAL DATA
	29500.0000 - 30000.0000 MHz		29K0G7W 29.16 dBW	DIGITAL DATA
	19700.0000 - 20200.0000 MHz		15M0G7W	DIGITAL DATA
	19700.0000 - 20200.0000 MHz		29K0G7W	DIGITAL DATA

Points of Communication:

- 1 - PERMITTED LIST - ()
- 1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

~~SES-MOD-20191107-01463~~ E E2197 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Crooked Creek, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L. orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1
 LOCATION: NSN AIRPORT RD, CROOKED CREEK, AK
 61 ° 52 ' 16.00 " N LAT. 158 ° 6 ' 6.00 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW	ESA45-39239
	5925.0000 - 6425.0000 MHz		13M9G1D 59.50 dBW	VARIOUS PSK & QAM - DATA
	5925.0000 - 6425.0000 MHz		29K0G1D 48.80 dBW	VARIOUS PSK & QAM - DATA
	5925.0000 - 6425.0000 MHz		13M9G7W 59.50 dBW	VARIOUS PSK & QAM - VOICE AND DATA

5925.0000 - 6425.0000 MHz	57K0G7W	51.80 dBW	VARIOUS PSK & QAM - VOICE AND DATA
3700.0000 - 4200.0000 MHz	13M9G1D	0.00 dBW	VARIOUS PSK & QAM - DATA
3700.0000 - 4200.0000 MHz	29K0G1D	0.00 dBW	VARIOUS PSK & QAM - DATA
3700.0000 - 4200.0000 MHz	13M9G7W	0.00 dBW	VARIOUS PSK & QAM - VOICE AND DATA
3700.0000 - 4200.0000 MHz	57K0G7W	0.00 dBW	VARIOUS PSK & QAM - VOICE AND DATA
ANTENNA ID: 2	1.2 meters	GEN DYNAMICS	3122
29500.0000 - 30000.0000 MHz	29K0G7W	29.16 dBW	DIGITAL DATA
29500.0000 - 30000.0000 MHz	15M0G7W	56.30 dBW	DIGITAL DATA
19700.0000 - 20200.0000 MHz	29K0G7W		DIGITAL DATA
19700.0000 - 20200.0000 MHz	15M0G7W		DIGITAL DATA

Points of Communication:

- 1 - PERMITTED LIST - ()
- 1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

SES-MOD-20191107-01464 E E2280 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Circle, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L. orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands on a non-protected and non-interference basis and without prejudice to FCC actions on other pending or future applications.

SITE ID: 1

LOCATION: NSN CIRCLE AK, CIRCLE, CIRCLE, AK
65 ° 49 ' 38.00 " N LAT. 144 ° 3 ' 58.00 " W LONG.

ANTENNA ID: 1	4.5 meters	ANDREW CORPORATION	ESA5-46A
5925.0000 - 6425.0000 MHz	1M15G7W	62.82 dBW	QPSK, VOICE, DATA, FEC 7/8, ADPCM
3700.0000 - 4200.0000 MHz	1M15G7W		QPSK, VOICE, DATA, FEC 7/8, ADPCM
ANTENNA ID: 2	1.2 meters	GEN DYNAMICS	3122
29500.0000 - 30000.0000 MHz	29K0G7W	29.16 dBW	DIGITAL DATA

29500.0000 - 30000.0000 MHz	15M0G7W	56.30 dBW	DIGITAL DATA
19700.0000 - 20200.0000 MHz	29K0G7W		DIGITAL DATA
19700.0000 - 20200.0000 MHz	15M0G7W		DIGITAL DATA

Points of Communication:

1 - PERMITTED LIST - ()

1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

SES-MOD-20191107-01465 E E7242 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Chenega Bay, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1

LOCATION: 56.5 CHENA HOT SPRINGS, FAIRBANKS N STAR B, CHENEGA BAY, AK
 60 ° 4 ' 6.00 " N LAT. 148 ° 0 ' 28.00 " W LONG.

ANTENNA ID: 1 4.5 meters ANDREW CORPORATION MODEL ESA45-46A

5925.0000 - 6425.0000 MHz	1M77G7W	67.80 dBW
5925.0000 - 6425.0000 MHz	24K0G1D	40.60 dBW
5925.0000 - 6425.0000 MHz	86K4G1D	54.80 dBW
5925.0000 - 6425.0000 MHz	75K6G1D	54.20 dBW
5925.0000 - 6425.0000 MHz	53K3G1W	54.10 dBW
5925.0000 - 6425.0000 MHz	26K7G1W	51.00 dBW
5925.0000 - 6425.0000 MHz	13K3G1E	51.00 dBW
3700.0000 - 4200.0000 MHz		

Points of Communication:

1 - PERMITTED LIST - ()

1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

SES-MOD-20191107-01466 E E2344 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Chalkyitsik, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L. orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1
LOCATION: NSN CHALKYITSIK, CHALKYITSIK, CHALKYITSIK, AK
66 ° 38 ' 59.80 " N LAT. 143 ° 43 ' 38.70 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA45-39239
	5925.0000 - 6425.0000 MHz		29K0G7W 52.10 dBW	VARIOUS PSK & QAM - VOICE AND DATA
	5925.0000 - 6425.0000 MHz		15M0G7W 57.16 dBW	VARIOUS PSK & QAM - VOICE AND DATA
	3700.0000 - 4200.0000 MHz		29K0G7W	VARIOUS PSK & QAM - VOICE AND DATA
	3700.0000 - 4200.0000 MHz		15M0G7W	VARIOUS PSK & QAM - VOICE AND DATA
ANTENNA ID:	2	1.2 meters	GEN DYNAMICS	3122
	29500.0000 - 30000.0000 MHz		29K0G7W 29.16 dBW	DIGITAL DATA
	29500.0000 - 30000.0000 MHz		15M0G7W 56.30 dBW	DIGITAL DATA
	19700.0000 - 20200.0000 MHz		29K0G7W	DIGITAL DATA
	19700.0000 - 20200.0000 MHz		15M0G7W	DIGITAL DATA

Points of Communication:

- 1 - PERMITTED LIST - ()
- 1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

SES-MOD-20191107-01467 E E2191 Alascom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Alascom, Inc. requests modification of its fixed earth station in Central, AK to add an 1.2-meter antenna to communicate with Permitted List satellites and the Spaceway-2 satellite at the 138.9° W.L. orbital location in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1
LOCATION: MP 127.5 STEESE HWY, CENTRAL, AK
65 ° 34 ' 15.00 " N LAT. 144 ° 48 ' 56.00 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA5-46A
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5925.0000 - 6425.0000 MHz	1M15G7W	62.82 dBW	QPSK, VOICE, DATA, FEC 7/8, ADPCM
3700.0000 - 4200.0000 MHz	1M15G7W		QPSK, VOICE, DATA, FEC 7/8, ADPCM
ANTENNA ID: 2	1.2 meters	GEN DYNAMICS	3122
29500.0000 - 30000.0000 MHz	29K0G7W	29.16 dBW	DIGITL DATA
29500.0000 - 30000.0000 MHz	15M0G7W	56.30 dBW	DIGITAL DATA
19700.0000 - 20200.0000 MHz	29K0G7W		DIGITAL DATA
19700.0000 - 20200.0000 MHz	15M0G7W		DIGITAL DATA

Points of Communication:

1 - PERMITTED LIST - ()

1 - SPACEWAY 2 (S2133) - (138.9 W.L.)

SES-MOD-20200605-00598 E E020331 Allen Holdings, Inc. d/b/a Allen Communications

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Allen Holdings, Inc. d/b/a Allen Communications requests modification of its fixed earth station to relocate the earth station from NAPA, CA to Hesperia, CA, update the site coordinates and technical data. This station will continue to communicate with Permitted List satellites in the 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1

LOCATION: 10880 E. AVE., SAN BERNARDINO, HESPERIA, CA

34 ° 26 ' 57.80 " N LAT.

117 ° 16 ' 49.50 " W LONG.

ANTENNA ID: 1	8.1 meters	VERTEX COMM.	KPC91
14000.0000 - 14500.0000 MHz	51K2G7W	56.77 dBW	BPSK, QPSK, 8PSK, QAM, FEC RATES 1/2 - 7/8, VARIOUS DATA RATES, VARIOUS INFORMATION.
14000.0000 - 14500.0000 MHz	36M0G7W	85.24 dBW	BPSK, QPSK, 8PSK, QAM, FEC RATES 1/2 - 7/8, VARIOUS DATA RATES, VARIOUS INFORMATION.
11700.0000 - 12200.0000 MHz	51K2G7W	0.00 dBW	BPSK, QPSK, 8PSK, QAM, FEC RATES 1/2 - 7/8, VARIOUS DATA RATES, VARIOUS INFORMATION.
11700.0000 - 12200.0000 MHz	36M0G7W	0.00 dBW	BPSK, QPSK, 8PSK, QAM, FEC RATES 1/2 - 7/8, VARIOUS DATA RATES, VARIOUS INFORMATION.

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20200724-00810 E E191555 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Ramsey, MN to update site information and frequency coordination, and to decrease the quantity from 5 to 1, 4.5-meter Patriot antenna. This station will continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: FTS

LOCATION: 550 GRAMSIE ROAD, ANOKA, RAMSEY, MN

45 ° 3 ' 30.00 " N LAT.

93 ° 7 ' 28.00 " W LONG.

ANTENNA ID: 4.5M.AND	4.5 meters	Andrew Corporation	ESA45-46A
3700.0000 - 4200.0000 MHz		36M0G7W	digital data: various FEC, data rates and modulation
ANTENNA ID: 4.5M.PAT	4.5 meters	Patriot	4.5M.
3700.0000 - 4200.0000 MHz		36M0G7W	Digital traffic, various FEC, modulation and data rates
ANTENNA ID: 4.5M.SA	4.5 meters	Scientific Atlanta	4.5M.
3700.0000 - 4200.0000 MHz		36M0G7W	Digital traffic, various FEC, data rates and modulation
ANTENNA ID: 3.0M.PROD	3 meters	Prodelin	3.0M.
3700.0000 - 4200.0000 MHz		36M0G7W	Digital traffic, various FEC, data rates and modulation

Points of Communication:

FTS - PERMITTED LIST - ()

SES-MOD-20200825-00921 E E980076 SES Americom, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SES Americom, Inc. requests modification of its fixed earth station in Bristow, VA, to remove Antenna ID 1, 9 meter antenna and to update the points of communication.

SITE ID: 1

LOCATION: 8000 GAINSFORD CT, PRINCE WILLIAM, BRISTOW, VA

38 ° 47 ' 1.00 " N LAT.

77 ° 34 ' 23.00 " W LONG.

ANTENNA ID: 9.3M.	9.3 meters	VERTEX CORPORATION	9.3M. KPC
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11701.0000 - 11701.0000 MHz	NON		CW, Tracking beaon
11452.0000 - 11452.0000 MHz	NON		CW, Tracking beaon
11198.0000 - 11198.0000 MHz	NON		CW, Tracking beaon
6491.0000 - 6650.0000 MHz	72M0G7W	80.80 dBW	Digital data
6491.0000 - 6650.0000 MHz	4M80G7D	74.10 dBW	Digital data
6491.0000 - 6650.0000 MHz	43K8G7W	61.50 dBW	Digital data
6491.0000 - 6650.0000 MHz	43K8G7D	53.70 dBW	Digital data
6491.0000 - 6650.0000 MHz	72M0G7W	80.80 dBW	DIGITAL DATA
6491.0000 - 6650.0000 MHz	4M80G7D	74.10 dBW	DIGITAL DATA
6491.0000 - 6650.0000 MHz	43K8G7W	61.50 dBW	DIGITAL DATA
6491.0000 - 6650.0000 MHz	43K8G7D	53.70 dBW	DIGITAL DATA
6491.0000 - 6650.0000 MHz	900KF1D	74.60 dBW	TELECOMMAND
6491.0000 - 6650.0000 MHz	NON	53.30 dBW	TEST CARRIER
6301.2900 - 6425.0000 MHz	43K8G7D-	53.70 dBW	Digital data
6301.2900 - 6425.0000 MHz	4M80G7D	74.09 dBW	Digital data
6175.5500 - 6177.0500 MHz	900KF1D	74.60 dBW	FM, Telecommand Frequency 2
6172.9500 - 6174.4500 MHz	900KF1D	74.60 dBW	FM, Telecommand Frequency 1
5925.0000 - 6425.0000 MHz	43K8G7W	61.50 dBW	Data
5925.0000 - 6425.0000 MHz	77M0G7W	80.80 dBW	Data
5925.0000 - 6425.0000 MHz	72M0G7W	80.80 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz	4M80G7D	74.10 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz	43K8G7W	61.50 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz	43K8G7D	53.70 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz	900KF1D	74.60 dBW	TELECOMMAND
5925.0000 - 6425.0000 MHz	NON	53.30 dBW	TEST CARRIER
5925.0000 - 6271.0900 MHz	43K8G7D-	53.70 dBW	Digital data

5925.0000 - 6271.0900 MHz	4M80G7D	74.09 dBW	Digital data
5850.0000 - 5925.0000 MHz	72M0G7W	80.80 dBW	DIGITAL DATA
5850.0000 - 5925.0000 MHz	4M80G7D	74.10 dBW	DIGITAL DATA
5850.0000 - 5925.0000 MHz	43K8G7W	61.50 dBW	DIGITAL DATA
5850.0000 - 5925.0000 MHz	43K8G7D	53.70 dBW	DIGITAL DATA
5850.0000 - 5925.0000 MHz	900KF1D	74.60 dBW	TELECOMMAND
5850.0000 - 5925.0000 MHz	N0N	53.30 dBW	TEST CARRIER
3952.2500 - 3952.7500 MHz	500KG7D		PM, Telemetry Beacon 2 (Beacon 2 and 2A not simultaneous)
3952.2500 - 3952.7500 MHz	500KG7D		PM, Telemetry Beacon 2 (Beacon 2 and 2A not simultaneous)
3951.7500 - 3952.2500 MHz	500KG7D		PM, Telemetry Beacon 2 (Beacon 2 and 2A not simultaneous)
3947.7500 - 3948.2500 MHz	500KG7D		PM, Telemetry Beacon 1 (Beacon 1 and 1A not simultaneous)
3947.2500 - 3947.7500 MHz	500KG7D		PM, Telemetry Beacon 1 (Beacon 1 and 1A not simultaneous)
3700.0000 - 4200.0000 MHz	43K8G7D-		Digital data
3700.0000 - 4200.0000 MHz	4M80G7D		Digital data
3700.0000 - 4200.0000 MHz	43K8G7W		Digital data
3700.0000 - 4200.0000 MHz	77M0G7W		Digital data
3700.0000 - 4200.0000 MHz	N0N		CW, TRACKING BEACON
3700.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA
3700.0000 - 4200.0000 MHz	4M80G7D		DIGITAL DATA
3700.0000 - 4200.0000 MHz	43K8G7W		DIGITAL DATA
3700.0000 - 4200.0000 MHz	43K8G7D		DIGITAL DATA
3625.0000 - 3700.0000 MHz	N0N		CW, TRACKING BEACON
3625.0000 - 3700.0000 MHz	72M0G7W		DIGITAL DATA
3625.0000 - 3700.0000 MHz	4M80G7D		DIGITAL DATA

3625.0000 - 3700.0000 MHz	43K8G7W	DIGITAL DATA
3625.0000 - 3700.0000 MHz	43K8G7D	DIGITAL DATA

Points of Communication:

- 1 - INTELSAT 11 (S2237) - (43.0 W.L.)
- 1 - NSS-7 (S2463) - (20 W.L.)
- 1 - PERMITTED LIST - ()
- 1 - SES-14 (S2974) - (47.5 W.L.)
- 1 - SES-4 (S2828) - (22.0 W.L.)
- 1 - SES-6 (S2870) - (40.5 W.L.)

SES-MOD-20200828-00938 E E160033 Spire Global, Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Earth Exploration Satellite Service, Other

Spire Global, Inc. requests modification of its fixed earth station to relocate the fixed earth station in Boulder, CO, and to replace the antenna on Antenna ID UHF-1, to communicate with the current licensed satellites in the current licensed frequency bands.

SITE ID: WBUGS

LOCATION: 1690 38TH STREET, BOULDER, BOULDER, CO

40 ° 0 ' 56.65 " N LAT.

105 ° 14 ' 36.03 " W LONG.

ANTENNA ID:	UHF-1	1.85 meters	M2ANTENNA SYSTEMS	401C014	
	402.0000 - 403.0000 MHz		15K0F1D	29.95 dBW	DIGITAL/TT&C UPLINK
	402.0000 - 403.0000 MHz		15K0F1D	0.00 dBW	Digital/Data Downlink and TT&C Downlink
ANTENNA ID:	UHF-2	1.85 meters	INNOV	405-18-R	
	402.0000 - 403.0000 MHz		15K0F1D	31.45 dBW	DIGITAL/TT&C UPLINK
	402.0000 - 403.0000 MHz		15K0F1D	0.00 dBW	Digital/Data Downlink and TT&C Downlink
ANTENNA ID:	SBAND-1	1.8 meters	ELITE	999001	
	2020.0000 - 2025.0000 MHz		5M00W1D	0.00 dBW	Digital/Data Downlink

Points of Communication:

WBUGS - LEMUR NGSO (S2946) - (NGSO)

WBUGS - MINAS NGSO (S3045) - (NGSO)

SES-MOD-20200904-00975 E E859863 California TV License Company, LLC

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

California TV License Company, LLC requests modification of its fixed earth station in Chico, CA to correct the site coordinates. This station will continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1

LOCATION: 3460 SILVERBELL ROAD, BUTTE, CHICO, CA

39 ° 46 ' 29.70 " N LAT.

121 ° 52 ' 11.10 " W LONG.

ANTENNA ID: 1 5 meters ANTENNA TECHNOLOGY CORP. SIMULSAT 5M

3700.0000 - 4200.0000 MHz 36M0F8W

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20181012-06990 E E202155 Washington Interstate Broadcasting Company, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 506 W Cowlitz Way (KLOG Satellite Dish), Cowlitz, Kelso, WA

46 ° 8 ' 49.00 " N LAT.

122 ° 55 ' 14.00 " W LONG.

ANTENNA ID: KLOG Sat D 2.8 meters Scientific Atlanta 2.8

3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Audio and Data

Points of Communication:

1 - PERMITTED LIST - ()

For more information concerning this Notice, contact the Satellite Division at 418-0719; TTY 1-888-835-5322.