



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
445 12th STREET S.W.
WASHINGTON D.C. 20554

News media information 202-418-0500
Internet: <http://www.fcc.gov> (or <ftp.fcc.gov>)
TTY (202) 418-2555

Report No. SES-02237

Wednesday January 29, 2020

Satellite Communications Services Information re: Actions Taken

The Commission, by its International Bureau, took the following actions pursuant to delegated authority. The effective dates of the actions are the dates specified.

SES-AFS-20190719-00929 E E080100 Global Eagle Telecom Licensing Subsidiary LLC
Amendment
Grant of Authority Date Effective: 01/22/2020

Class of Station: Other

Nature of Service: Earth Station Aboard Aircraft, Fixed Satellite Service, Other

SITE ID: 1
LOCATION: (.6M AeroSat Avionics) 1000 UNITS CONUS, PR, USTERR WATERS

ANTENNA ID:	1	0.6 meters	AeroSat Avionics	70-100-0000-01
	14050.0000 - 14470.0000 MHz	1M60G7D	38.60 dBW	QPSK OR OCTAL PSK
	11700.0000 - 12200.0000 MHz	36M0G7D	0.00 dBW	QPSK OR OCTAL PSK

SITE ID: 2
LOCATION: (.62M TECOM) 1000 UNITS CONUS, PR, USVI USTerr Waters

ANTENNA ID:	2	0.62 meters	TECOM	Ku-Stream
	14050.0000 - 14470.0000 MHz	1M60G7D	41.30 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	6M40G7D	43.80 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	1M60G7D	38.80 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	3M20G7D	43.80 dBW	QPSK OR OCTAL PSK

14050.0000 - 14470.0000 MHz	3M20G7D	41.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M60G7D	36.00 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M60G7D	41.30 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	3M20G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M20G7D	42.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	2M04G7D	42.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	4M09G7D	42.80 dBW	QPSK OR OCTAL PSK
12250.0000 - 12750.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11450.0000 - 12200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11200.0000 - 11450.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10950.0000 - 11200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10950.0000 - 11200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10700.0000 - 11700.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	4M09G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	2M04G7D	43.80 dBW	QPSK OR OCTAL PSK
12500.0000 - 12750.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M02G7D	41.30 dBW	QPSK OR OCTAL PSK
11200.0000 - 11450.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11450.0000 - 11700.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M02G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	2M04G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	4M09G7D	43.80 dBW	QPSK OR OCTAL PSK
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK

SITE ID: 3
LOCATION: (.63M QEST) 1000 UNITS CONUS, PR, USVI USTerr Waters

ANTENNA ID: 3 0.63 meters QEST Q050000

14050.0000 - 14470.0000 MHz	4M09G7D	41.90 dBW	QPSK OR OCTAL PSK
-----------------------------	---------	-----------	-------------------

14050.0000 - 14470.0000 MHz	2M04G7D	41.90 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M02G7D	41.90 dBW	QPSK OR OCTAL PSK
12200.0000 - 12500.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11450.0000 - 11700.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11200.0000 - 11450.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10950.0000 - 11200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10700.0000 - 11700.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	2M04G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	4M09G7D	43.80 dBW	QPSK OR OCTAL PSK

Points of Communication:

- 1 - AMC 9 (S2434) - (83 W.L.)
- 1 - HORIZONS 1 (S2475) - (127 WL)
- 1 - SES-1 (S2807) - (101.0 W.L.)
- 2 - AMC 2 - (84.85)
- 2 - AMC 9 (S2434) - (83 W.L.)
- 2 - AMC-1(S2445) - (130.90)
- 2 - AMC-3 - (72 W.L.)
- 2 - E117 WA (S2873) - (116.8 W.L.)
- 2 - ESTRELA DO SUL 2 - (63 W.L.)
- 2 - EUTELSAT115WA(S2589) - (114.9 W.L.)
- 2 - EUTELSAT115WB(S2938) - (114.9 W.L.)
- 2 - EUTELSAT133WA(S3031) - (132.85)
- 2 - HORIZONS 1 (S2475) - (127 WL)
- 2 - INTELSAT 19 (S2850) - (166.0 E.L.)
- 2 - INTELSAT 29e (S2913) - (50.0 W.L.)
- 2 - SES-1 (S2807) - (101.0 W.L.)
- 2 - SES-10 (S2950) - (66.9 W.L.)

- 2 - SES-14 (S2974) - (47.5 W.L.)
- 2 - SES-15 (S2951) - (129.15 W.L)
- 2 - SES-6 (S2870) - (40.5 W.L.)
- 2 - TELSTAR 11N (S2357) - (37.5 W.L.)
- 2 - Telstar 12 (S2462) - (109.2)
- 3 - AMC 2 - (84.85)
- 3 - AMC 9 (S2434) - (83 W.L.)
- 3 - AMC-1(S2445) - (130.90)
- 3 - AMC-3 - (72 W.L.)
- 3 - EUTELSAT115WB(S2938) - (114.9 W.L.)
- 3 - EUTELSAT133WA(S3031) - (132.85)
- 3 - INTELSAT 29e (S2913) - (50.0 W.L.)
- 3 - SES-1 (S2807) - (101.0 W.L.)
- 3 - SES-10 (S2950) - (66.9 W.L.)
- 3 - SES-14 (S2974) - (47.5 W.L.)
- 3 - SES-15 (S2951) - (129.15 W.L)
- 3 - Telstar 12 (S2462) - (109.2)

SES-AMD-20181016-03279 E E181228 Charter Communications Operating, LLC

Amendment

Grant of Authority

Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 11011 E Peakview Ave, Arapahoe, Centennial, CO

39 ° 35 ' 57.90 " N LAT.

104 ° 51 ' 37.60 " W LONG.

ANTENNA ID:	1	5 meters	ATCi	Simulsat 5M
		3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	2	5 meters	Scientific-Atlanta	8008B
		3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	3	4.6 meters	Andrew	ESA46

3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 4	4.6 meters Scientific-Atlanta	8346
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 5	4.5 meters Andrew	ESA45
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 6	4.5 meters DH Satellite	4.5M
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 7	4.5 meters Scientific-Atlanta	8345
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 8	3.8 meters Comtech	934D0015-G5
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 9	3.7 meters Prodelin	1374
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 10	1.8 meters Patriot	TX-INT180KU
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 11	5 meters SIMULSAT 5	UNKNOWN
3700.0000 - 4200.0000 MHz	36M0G7W	VIDEO, AUDIO, DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-AMD-20181016-03289 E E181210 Charter Communications Operating, LLC
Amendment

Grant of Authority

Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 3740 All American Blvd (Orlando All-American), Orange, Orlando, FL

28 ° 36 ' 33.00 " N LAT.

81 ° 25 ' 25.10 " W LONG.

ANTENNA ID: 1 5 meters ATCi Simulsat 5M

3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 2	5 meters Scientific-Atlanta	8008B
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 3	4.6 meters Andrew	ESA46
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 4	4.6 meters Scientific-Atlanta	8346
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 5	4.5 meters Andrew	ESA45
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 6	4.5 meters DH Satellite	4.5M
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 7	4.5 meters Scientific-Atlanta	8345
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 8	3.8 meters Comtech	934D0015-G5
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 9	3.7 meters Prodelin	1374
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 10	1.8 meters Patriot	TX-INT180KU
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 11	7 meters SIMULSAT	7A M.
3700.0000 - 4200.0000 MHz	36M0G7W	VIDEO, AUDIO, DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-AMD-20181016-03290 E E181226 Charter Communications Operating, LLC
 Amendment
 Grant of Authority

Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 20 N Orange Ave, Orange, Orlando, FL
28 ° 32 ' 33.50 " N LAT.

81 ° 22 ' 46.10 " W LONG.

ANTENNA ID:	1	5 meters	ATCi	Simulsat 5M
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	2	5 meters	Scientific-Atlanta	8008B
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	3	4.6 meters	Andrew	ESA46
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	4	4.6 meters	Scientific-Atlanta	8346
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	5	4.5 meters	Andrew	ESA45
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	6	4.5 meters	DH Satellite	4.5M
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	7	4.5 meters	Scientific-Atlanta	8345
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	8	3.8 meters	Comtech	934D0015-G5
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	9	3.7 meters	Prodelin	1374
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	10	1.8 meters	Patriot	TX-INT180KU
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	11-1	3.1 meters	PATRIOT	PRT-310AZ
	3700.0000 - 4200.0000 MHz		36M0G7W	MODULATION AND SERVICES VIDEO, AUDIO, DATA
ANTENNA ID:	12-2	3.1 meters	PATRIOT	PRT-310AZ

3700.0000 - 4200.0000 MHz	36M0G7W	MODULATION AND SERVICES VIDEO, AUDIO, DATA
ANTENNA ID: 13-3	3.1 meters	PATRIOT
		PRT-310AZ
3700.0000 - 4200.0000 MHz	36M0G7W	MODULATION AND SERVICES VIDEO, AUDIO, DATA
ANTENNA ID: 14-4	1.8 meters	SEG
		PRODELIN 1183
3700.0000 - 4200.0000 MHz	36M0G7W	MODULATION AND SERVICES VIDEO, AUDIO, DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-ASG-20191119-01523 E E182052 WITI License, LLC (d/b/a C/O NEXSTAR MEDIA GROUP, INC.)
 Application for Consent to Assignment
 Grant of Authority Date Effective: 01/28/2020

Current Licensee: WITI License, LLC
FROM: WITI LICENSE, LLC
TO: Fox Television Stations, LLC

No. of Station(s) listed: 2

SES-ASG-20191120-01531 E E890118 WITI License, LLC (d/b/a C/O NEXSTAR MEDIA GROUP, INC.)
 Application for Consent to Assignment
 Grant of Authority Date Effective: 01/27/2020

Current Licensee: WITI License, LLC
FROM: c/o Nexstar Media Group, Inc.
TO: Fox Television Stations, LLC

No. of Station(s) listed: 1

SES-ASG-20191120-01532 E E180280 Tribune Broadcasting Seattle, LLC
 Application for Consent to Assignment
 Grant of Authority Date Effective: 01/28/2020

Current Licensee: Tribune Broadcasting Seattle, LLC
FROM: c/o Nexstar Media Group, Inc.
TO: Fox Television Stations, LLC

No. of Station(s) listed: 1

SES-ASG-20191120-01533 E E030207 Tribune Broadcasting Seattle, LLC
 Application for Consent to Assignment
 Grant of Authority Date Effective: 01/27/2020

Current Licensee: Tribune Broadcasting Seattle, LLC
FROM: c/o Nexstar Media Group, Inc.
TO: Fox Television Stations, LLC

No. of Station(s) listed: 4

SES-LIC-20191003-01268 E E190776 Live Mobile Group LLC
Application for Authority 01/22/2020 - 01/22/2035
Grant of Authority Date Effective: 01/22/2020

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 515 Brick Church Park Dr, Nashville, TN

ANTENNA ID:	1	2.4 meters	AVL	2400K
	14000.0000 - 14500.0000 MHz	36M0G7W	73.90 dBW	Digital Video, Digital Audio, and Associated Metadata

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20191023-01383 E E190886 WML Services, LLC
Application for Authority 01/16/2020 - 01/16/2035
Grant of Authority Date Effective: 01/16/2020

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

This application was granted on January 16, 2020 and appeared on the Report No. SES-02234 as accepted for filing, dated January 22, 2020 in error. The application should have been on the Report No. SES-02235, as actions taken dated January 22, 2020.

SITE ID: 1
LOCATION: ALL US TERRITORIES (NY2 NS-6), CONUS, AK, HI,

ANTENNA ID:	NS-6	1.8 meters	AVL Technologies	1810
	11700.0000 - 12200.0000 MHz	36M0G7F	0.00 dBW	Compressed Digital Video and Audio
	11700.0000 - 12200.0000 MHz	4M00G7F	0.00 dBW	Compressed Digital Video and Audio
	14000.0000 - 14500.0000 MHz	36M0G7F	71.52 dBW	Compressed Digital Video and Audio
	14000.0000 - 14500.0000 MHz	4M00G7F	64.28 dBW	Compressed Digital Video and Audio

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20191210-01683 E E191482 KHOU-TV, Inc.
Application for Authority 01/28/2020 - 01/28/2035
Grant of Authority Date Effective: 01/28/2020

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 5718 Westheimer Rd. Suite 311, Harris, Houston, TX

ANTENNA ID:	1	1.4 meters	AVL Technologies	1410K
	14000.0000 - 14500.0000 MHz	36M0G7W	64.50 dBW	One 36 Mbit MCPC digital carrier for voice/data.

Points of Communication:

1 - PERMITTED LIST - ()

SES-MFS-20190312-00328	E	E080100	Global Eagle Telecom Licensing Subsidiary LLC	
Modification				08/05/2009 - 08/05/2024
Grant of Authority				Date Effective: 01/22/2020

Class of Station: Other

Nature of Service: Earth Station Aboard Aircraft, Fixed Satellite Service

SITE ID: 1

LOCATION: (0.6m AeroSat Avionics) 1000 UNITS CONUS, +TERR, INTERNATIONAL WATERS

ANTENNA ID:	1	0.6 meters	AeroSat Avionics	70-100-0000-01
	14050.0000 - 14470.0000 MHz	1M60G7D	38.60 dBW	QPSK OR OCTAL PSK
	11700.0000 - 12200.0000 MHz	36M0G7D	0.00 dBW	QPSK OR OCTAL PSK

SITE ID: 2

LOCATION: (0.62m TECOM) 1000 UNITS CONUS, PR, USVI USTerr Waters

ANTENNA ID:	2	0.62 meters	TECOM	Ku-Stream
	14050.0000 - 14470.0000 MHz	1M60G7D	41.30 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	6M40G7D	43.80 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	1M60G7D	38.80 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	3M20G7D	43.80 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	3M20G7D	41.80 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	1M60G7D	36.00 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	1M60G7D	41.30 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	3M20G7D	43.80 dBW	QPSK OR OCTAL PSK
	14050.0000 - 14470.0000 MHz	1M20G7D	42.80 dBW	QPSK OR OCTAL PSK

14050.0000 - 14470.0000 MHz	2M04G7D	42.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	4M09G7D	42.80 dBW	QPSK OR OCTAL PSK
12250.0000 - 12750.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11450.0000 - 12200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11200.0000 - 11450.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10950.0000 - 11200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10950.0000 - 11200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10700.0000 - 11700.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	4M09G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	2M04G7D	43.80 dBW	QPSK OR OCTAL PSK
12500.0000 - 12750.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M02G7D	41.30 dBW	QPSK OR OCTAL PSK
11200.0000 - 11450.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11450.0000 - 11700.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M02G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	2M04G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	4M09G7D	43.80 dBW	QPSK OR OCTAL PSK
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK

SITE ID: 3

LOCATION: (0.63m QEST) 1000 UNITS CONUS, PR, USVI USTerr Waters

ANTENNA ID: 3	0.63 meters	QEST	Q050000
14050.0000 - 14470.0000 MHz	4M09G7D	41.90 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	2M04G7D	41.90 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	1M02G7D	41.90 dBW	QPSK OR OCTAL PSK
12200.0000 - 12500.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
11450.0000 - 11700.0000 MHz	36M0G7D		QPSK OR OCTAL PSK

11200.0000 - 11450.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10950.0000 - 11200.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
10700.0000 - 11700.0000 MHz	36M0G7D		QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	2M04G7D	43.80 dBW	QPSK OR OCTAL PSK
14050.0000 - 14470.0000 MHz	4M09G7D	43.80 dBW	QPSK OR OCTAL PSK

Points of Communication:

- 1 - AMC 9 (S2434) - (83 W.L.)
- 1 - HORIZONS 1 (S2475) - (127 WL)
- 1 - SES-1 (S2807) - (101.0 W.L.)
- 2 - AMC 2 - (84.85)
- 2 - AMC 9 (S2434) - (83 W.L.)
- 2 - AMC-1(S2445) - (130.90)
- 2 - AMC-3 - (72 W.L.)
- 2 - E117 WA (S2873) - (116.8 W.L.)
- 2 - ESTRELA DO SUL 2 - (63 W.L.)
- 2 - EUTELSAT115WA(S2589) - (114.9 W.L.)
- 2 - EUTELSAT115WB(S2938) - (114.9 W.L.)
- 2 - EUTELSAT133WA(S3031) - (132.85)
- 2 - HORIZONS 1 (S2475) - (127 WL)
- 2 - INTELSAT 19 (S2850) - (166.0 E.L.)
- 2 - INTELSAT 29e (S2913) - (50.0 W.L.)
- 2 - SES-1 (S2807) - (101.0 W.L.)
- 2 - SES-10 (S2950) - (66.9 W.L.)
- 2 - SES-14 (S2974) - (47.5 W.L.)
- 2 - SES-15 (S2951) - (129.15 W.L.)
- 2 - SES-6 (S2870) - (40.5 W.L.)
- 2 - TELSTAR 11N (S2357) - (37.5 W.L.)
- 2 - Telstar 12 (S2462) - (109.2)
- 3 - AMC 2 - (84.85)

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 3740 All American Blvd (Orlando All-American), Orange, Orlando, FL
28 ° 36 ' 33.00 " N LAT. 81 ° 25 ' 25.10 " W LONG.

ANTENNA ID:	1	5 meters	ATCi	Simulsat 5M
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	2	5 meters	Scientific-Atlanta	8008B
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	3	4.6 meters	Andrew	ESA46
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	4	4.6 meters	Scientific-Atlanta	8346
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	5	4.5 meters	Andrew	ESA45
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	6	4.5 meters	DH Satellite	4.5M
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	7	4.5 meters	Scientific-Atlanta	8345
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	8	3.8 meters	Comtech	934D0015-G5
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	9	3.7 meters	Prodelin	1374
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	10	1.8 meters	Patriot	TX-INT180KU
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	11	7 meters	SIMULSAT	7A M.
	3700.0000 - 4200.0000 MHz		36M0G7W	VIDEO, AUDIO, DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180703-01981 E E181226 Charter Communications Operating, LLC
 Registration 07/03/2018 - 07/03/2033
 Grant of Authority Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 20 N Orange Ave, Orange, Orlando, FL
 28 ° 32 ' 33.50 " N LAT.

81 ° 22 ' 46.10 " W LONG.

ANTENNA ID:	1	5 meters	ATCi	Simulsat 5M
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	2	5 meters	Scientific-Atlanta	8008B
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	3	4.6 meters	Andrew	ESA46
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	4	4.6 meters	Scientific-Atlanta	8346
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	5	4.5 meters	Andrew	ESA45
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	6	4.5 meters	DH Satellite	4.5M
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	7	4.5 meters	Scientific-Atlanta	8345
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	8	3.8 meters	Comtech	934D0015-G5
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	9	3.7 meters	Prodelin	1374
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	10	1.8 meters	Patriot	TX-INT180KU

3700.0000 - 4200.0000 MHz	36M0G7W		Digital Video, Audio, Data
ANTENNA ID: 11-1	3.1 meters	PATRIOT	PRT-310AZ
3700.0000 - 4200.0000 MHz	36M0G7W		MODULATION AND SERVICES VIDEO, AUDIO, DATA
3700.0000 - 4200.0000 MHz	36M0G7W		MODULATION AND SERVICES VIDEO, AUDIO, DATA
ANTENNA ID: 12-2	3.1 meters	PATRIOT	PRT-310AZ
3700.0000 - 4200.0000 MHz	36M0G7W		MODULATION AND SERVICES VIDEO, AUDIO, DATA
ANTENNA ID: 13-3	3.1 meters	PATRIOT	PRT-310AZ
ANTENNA ID: 14-4	1.8 meters	SEG	PRODELIN 1183
3700.0000 - 4200.0000 MHz	36M0G7W		MODULATION AND SERVICES VIDEO, AUDIO, DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180703-01983	E E181228	Charter Communications Operating, LLC	
Registration			07/03/2018 - 07/03/2033
Grant of Authority			Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 11011 E Peakview Ave, Arapahoe, Centennial, CO
39 ° 35 ' 57.90 " N LAT. 104 ° 51 ' 37.60 " W LONG.

ANTENNA ID: 1	5 meters	ATCi	Simulsat 5M
3700.0000 - 4200.0000 MHz	36M0G7W		Digital Video, Audio, Data
ANTENNA ID: 2	5 meters	Scientific-Atlanta	8008B
3700.0000 - 4200.0000 MHz	36M0G7W		Digital Video, Audio, Data
ANTENNA ID: 3	4.6 meters	Andrew	ESA46
3700.0000 - 4200.0000 MHz	36M0G7W		Digital Video, Audio, Data
ANTENNA ID: 4	4.6 meters	Scientific-Atlanta	8346
3700.0000 - 4200.0000 MHz	36M0G7W		Digital Video, Audio, Data

ANTENNA ID:	5	4.5 meters	Andrew	ESA45
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	6	4.5 meters	DH Satellite	4.5M
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	7	4.5 meters	Scientific-Atlanta	8345
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	8	3.8 meters	Comtech	934D0015-G5
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	9	3.7 meters	Prodelin	1374
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	10	1.8 meters	Patriot	TX-INT180KU
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video, Audio, Data
ANTENNA ID:	11	5 meters	SIMULSAT 5	UNKNOWN
	3700.0000 - 4200.0000 MHz		36M0G7W	VIDEO, AUDIO, DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180920-04481	E	E190823	WEEK License, LLC	
Registration				09/20/2018 - 09/20/2033
Grant of Authority				Date Effective: 01/24/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: WEEK Television 2907 Springfield Rd., Tazewell, East Peoria, IL
40 ° 37 ' 44.50 " N LAT. 89 ° 32 ' 55.00 " W LONG.

ANTENNA ID:	1	5 meters	DH Satellite	50DH
	3700.0000 - 4200.0000 MHz		36M0F3F	Analog TV Video
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
ANTENNA ID:	2	4.5 meters	DH Satellite	45DH

3700.0000 - 4200.0000 MHz	36M0F3F	Analog TV Video
3700.0000 - 4200.0000 MHz	36M0G7F	Digital TV Video
ANTENNA ID: 3	4.2 meters	DH Satellite
		42DH
3700.0000 - 4200.0000 MHz	36M0F3F	Analog TV Video
3700.0000 - 4200.0000 MHz	36M0G7F	Digital TV Video
ANTENNA ID: 4	3.8 meters	DH Satellite
		38DH
3700.0000 - 4200.0000 MHz	36M0F3F	Analog TV Video
3700.0000 - 4200.0000 MHz	36M0G7F	Digital TV Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180920-04742	E E191112	CenCom, Inc.	
Registration			09/20/2018 - 09/20/2033
Grant of Authority			Date Effective: 01/24/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 109 Pigeon St., Dakota, Jackson, NE
42 ° 26 ' 51.60 " N LAT. 96 ° 34 ' 5.00 " W LONG.

ANTENNA ID: 3.8 M.	3.8 meters	Patriot	PRT -380AZ
3700.0000 - 4200.0000 MHz	36M0F8F	Video	
3700.0000 - 4200.0000 MHz	36M0F8F	Video	
3700.0000 - 4200.0000 MHz	36M0F8F	Video	

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20181003-04833	E E191204	Stowe Cable Systems, LLC	
Registration			10/03/2018 - 10/03/2033
Grant of Authority			Date Effective: 01/24/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 172 Thomas In (Stowe VT Headend), Lamoille, Stowe, VT
44 ° 27 ' 32.23 " N LAT. 72 ° 41 ' 28.71 " W LONG.

ANTENNA ID: Dish1 3.7 meters Dawn Co d37f2c
3700.0000 - 4200.0000 MHz 36M0G7W Digital MPEG4 Video or Audio
ANTENNA ID: Dish2 2.4 meters Prodelin Series 1253
3700.0000 - 4200.0000 MHz 36M0G7W Digital MPEG4 Video or Audio

Points of Communication:

1 - ANIK F1(S2745) - (107.3 W.L)
1 - SES-11 (S2964) - (104.95 W.L)

SES-REG-20181006-05065 E E191443 Northeastern Pennsylvania Educational Television Association
Registration 10/06/2018 - 10/06/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: WVIA Studio
LOCATION: 100 WVIA Way, Luzerne, Pittston, PA
41 ° 17 ' 37.00 " N LAT. 75 ° 46 ' 29.40 " W LONG.

ANTENNA ID: WVIA3 3.8 meters Comtech 3.8M
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Broadcast Services Digital 30K0G7W -
36M0G7W Analog 30K0G7W -
36M0G7W

Points of Communication:

WVIA Studio - PERMITTED LIST - ()

SES-REG-20181008-05087 E E191465 TCT of Michigan, Inc.
Registration 10/08/2018 - 10/08/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Chesaning
LOCATION: 7114 W Gary Rd, Saginaw, Chesaning, MI
43 ° 13 ' 12.30 " N LAT. 84 ° 3 ' 11.50 " W LONG.

ANTENNA ID: 3m 3 meters Channel Master 3.0 meter

3700.0000 - 4200.0000 MHz

36M0G7W

Digial Video Carrier

Points of Communication:

Chesaning - PERMITTED LIST - ()

SES-REG-20181009-04988 E E191364 Eastern Sky, LLC

Registration

10/09/2018 - 10/09/2033

Grant of Authority

Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: WZXI Studio

LOCATION: 1145 Buckeye Rd, Garrard, Lancaster, KY

37 ° 37 ' 53.40 " N LAT.

84 ° 33 ' 58.90 " W LONG.

ANTENNA ID: 1 3 meters Dawnco 3.0 meter

3700.0000 - 4200.0000 MHz

30M0G7W

0.00 dBW

Digital audio and video services

Points of Communication:

WZXI Studio - PERMITTED LIST - ()

SES-REG-20181009-04990 E E191366 Bonneville International Corporation

Registration

10/09/2018 - 10/09/2033

Grant of Authority

Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Bonneville Sacrament

LOCATION: 280 Commerce Circle, Sacramento, Sacramento, CA

38 ° 35 ' 56.60 " N LAT.

121 ° 27 ' 53.20 " W LONG.

ANTENNA ID: 1 3.7 meters Satcom 3.7 m

3700.0000 - 4200.0000 MHz

36M0G7W

0.00 dBW

Digital Data/Digital Audio

Points of Communication:

Bonneville Sacrament - PERMITTED LIST - ()

SES-REG-20181009-04996 E E191372 East Kentucky Broadcasting Corporation

Registration

10/09/2018 - 10/09/2033

Grant of Authority

Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Studio
LOCATION: 1240 Radio Drive, Kentucky, Pikeville
37 ° 28 ' 50.00 " N LAT. 82 ° 31 ' 35.00 " W LONG.

ANTENNA ID: Studio 3.048 meters Unknown Unknown
3700.0000 - 4200.0000 MHz 30M0G7W 0.00 dBW Analog audio and video with associated subcarriers

Points of Communication:

Studio - PERMITTED LIST - ()

SES-REG-20181009-04997 E E191373 AC Holdings, Inc.
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: EWR - B - Newark LIA
LOCATION: 3 Brewster Rd, Essex, Newark, NJ
40 ° 41 ' 22.10 " N LAT. 74 ° 10 ' 39.40 " W LONG.

ANTENNA ID: 1 2.4 meters Prodelin 1241
3700.0000 - 4200.0000 MHz 36M0G7F 0.00 dBW DVB-S2/AVC Video Services

Points of Communication:

EWR - B - Newark LIA - PERMITTED LIST - ()

SES-REG-20181009-04998 E E191374 AC Holdings, Inc.
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: EWR - A - Newark LIA
LOCATION: 3 Brewster Rd, Union, Newark, NJ
40 ° 41 ' 12.20 " N LAT. 74 ° 10 ' 50.90 " W LONG.

ANTENNA ID: 1 3.1 meters Patriot PRT-310
3700.0000 - 4200.0000 MHz 36M0G7F 0.00 dBW DVB-S2/AVC Video Services

Points of Communication:

EWR - A - Newark LIA - PERMITTED LIST - ()

SES-REG-20181009-05001 E E191377 Northland Cable Television, Inc.
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Othello - NCTV
LOCATION: 1040 East Main Street, Adams, Othello, WA
46 ° 49 ' 32.70 " N LAT. 119 ° 9 ' 35.20 " W LONG.

ANTENNA ID:	Antenna 1	4.5 meters	Scientific Atlanta	Unknown	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Video Programming
ANTENNA ID:	Antenna 2	3.8 meters	AFC	Unknown	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Video Programming
ANTENNA ID:	Antenna 3	3.8 meters	Patriot	PRT 380	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Video Programming

Points of Communication:

Othello - NCTV - PERMITTED LIST - ()

SES-REG-20181009-05002 E E191378 Tulalip Tribes Broadband
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: S1 Headend
LOCATION: 800 140th st nw, Snohomish, Tulalip, WA
48 ° 7 ' 21.60 " N LAT. 122 ° 14 ' 37.00 " W LONG.

ANTENNA ID:	ANT1	4.5 meters	AMERICAN ANTENNAS, INC	TVRO4.5	
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW	Modulation and Services Digital Video
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW	Modulation and Services Analog Video with associated subcarriers

Points of Communication:

S1 Headend - PERMITTED LIST - ()

SES-REG-20181009-05003 E E191379 AC Holdings, Inc.
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: EWR - C - Newark LIA
LOCATION: 3 Brewster Rd, Essex, Newark, NJ
40 ° 41 ' 46.00 " N LAT. 74 ° 10 ' 42.70 " W LONG.

ANTENNA ID: 1 3.1 meters Patriot PRT-310
3700.0000 - 4200.0000 MHz 36M0G7F 0.00 dBW DVB-S2/AVC Video Services

Points of Communication:

EWR - C - Newark LIA - PERMITTED LIST - ()

SES-REG-20181009-05006 E E191382 AC Holdings, Inc.
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SJC - San Jose IA
LOCATION: 1701 Airport Blvd, Santa Clara, San Jose, CA
37 ° 22 ' 5.70 " N LAT. 121 ° 55 ' 41.50 " W LONG.

ANTENNA ID: 1 3.1 meters Patriot PRT-310
3700.0000 - 4200.0000 MHz 36M0G7F 0.00 dBW DVB-S2/AVC Video Services - Digital

Points of Communication:

SJC - San Jose IA - PERMITTED LIST - ()

SES-REG-20181009-05009 E E191385 Alpha Media Licensee LLC
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Clinton
LOCATION: 2201 N. Antioch Street, Henry, Clinton, MO
38 ° 23 ' 42.70 " N LAT. 93 ° 46 ' 16.20 " W LONG.

ANTENNA ID: CBand1 4.3 meters American Satellite Systems Unknown

3700.0000 - 4200.0000 MHz 36M0F7W 0.00 dBW Digital audio, data, telemetry

Points of Communication:

Clinton - PERMITTED LIST - ()

SES-REG-20181009-05020 E E191396 AC Holdings, Inc.
 Registration 10/09/2018 - 10/09/2033
 Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: ORD - O'Hare IA
 LOCATION: 10000 W O'Hare Ave, Cook, Chicago, IL
 41 ° 58 ' 46.10 " N LAT. 87 ° 54 ' 18.50 " W LONG.

ANTENNA ID: 1 3.1 meters Patriot PRT-310

3700.0000 - 4200.0000 MHz 36M0G7F 0.00 dBW DVB-S2/AVC Video Services

Points of Communication:

ORD - O'Hare IA - PERMITTED LIST - ()

SES-REG-20181009-05060 E E191438 Windstream Lexcom Communications, LLC
 Registration 10/09/2018 - 10/09/2033
 Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Lexington, KY
 LOCATION: 679 Wilson-Downing rd, Fayette, Lexington, KY
 37 ° 58 ' 30.32 " N LAT. 84 ° 30 ' 1.23 " W LONG.

ANTENNA ID: ALL 4.7 meters SATCOM 4.7M Prime Focus

3700.0000 - 4200.0000 MHz 36M0G7W Digital

Points of Communication:

- Lexington, KY - AMC 10 (S2432) - (135 W.L.)
- Lexington, KY - AMC-1(S2445) - (130.90)
- Lexington, KY - AMC-11(S2433) - (131 W.L.)
- Lexington, KY - AMC-18 (S2713) - (139 WL)
- Lexington, KY - GALAXY 13 (S2386) - (127 W.L.)
- Lexington, KY - GALAXY 13 (S2386) - (127 W.L.)

Lexington, KY - GALAXY 14 (S2385) - (125 W.L.)

Lexington, KY - GALAXY 15 (S2387) - (133.1)

Lexington, KY - GALAXY 16 (S2687) - (99 W.L.)

Lexington, KY - GALAXY 17 (S2715) - (91 W.L.)

Lexington, KY - GALAXY 18 (S2733) - (123 W.L.)

Lexington, KY - GALAXY 23 (S2592) - (121 W.L.)

Lexington, KY - GALAXY 28 (S2160) - (89.0 W.L.)

SES-REG-20181009-05061 E E191439 Marfa Public Radio

Registration

10/09/2018 - 10/09/2033

Grant of Authority

Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: MPR Studio

LOCATION: 106 E. San Antonio St., Presidio, Marfa, TX

30 ° 18 ' 34.00 " N LAT.

104 ° 1 ' 11.00 " W LONG.

ANTENNA ID: 1 3.7 meters Prodelin 1374

3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital video, audio, and data

Points of Communication:

SES-REG-20181009-05091 E E191469 Holy Spirit Radio

Registration

10/09/2018 - 10/09/2033

Grant of Authority

Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Sat B

LOCATION: 158 Midway Rd W, Pondera, Conrad, MT

48 ° 7 ' 49.89 " N LAT.

111 ° 55 ' 14.06 " W LONG.

ANTENNA ID: KHSI-LP 3 meters DH 30DH4

3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Audio from Audio-Video Digital

Points of Communication:

Sat B - PERMITTED LIST - ()

SES-REG-20181009-05093 E E191471 Minnesota Christian Broadcasters, Inc.
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 31287 Brunas Street, Crow Wing, Pequot Lake, MN
46 ° 36 ' 25.90 " N LAT. 94 ° 19 ' 0.90 " W LONG.

ANTENNA ID: 3.8M 3.8 meters Patriot 3.8M
3700.0000 - 4200.0000 MHz 36M0G7W Digital traffic, various FEC, data rates and modulations

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20181009-05097 E E191475 Windstream Lexcom Communications, LLC
Registration 10/09/2018 - 10/09/2033
Grant of Authority Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Dahlonega, GA
LOCATION: 200 Boyd Circle, Lumpkin, Dahlonega, GA
34 ° 32 ' 8.15 " N LAT. 83 ° 58 ' 56.45 " W LONG.

ANTENNA ID: ALL 4.7 meters SATCOM 4.7M Prime Focus
3700.0000 - 4200.0000 MHz 36M0G7W video, Digital

Points of Communication:

- Dahlonega, GA - AMC 10 (S2432) - (135 W.L.)
- Dahlonega, GA - AMC-1(S2445) - (130.90)
- Dahlonega, GA - AMC-11(S2433) - (131 W.L.)
- Dahlonega, GA - AMC-18 (S2713) - (139 WL)
- Dahlonega, GA - GALAXY 10R - (123 W.L.)
- Dahlonega, GA - GALAXY 13 (S2386) - (127 W.L.)
- Dahlonega, GA - GALAXY 14 (S2385) - (125 W.L.)
- Dahlonega, GA - GALAXY 15 (S2387) - (133.1)
- Dahlonega, GA - GALAXY 16 (S2687) - (99 W.L.)

Dahlonega, GA - GALAXY 17 (S2715) - (91 W.L.)

Dahlonega, GA - GALAXY 18 (S2733) - (123 W.L.)

Dahlonega, GA - GALAXY 23 (S2592) - (121 W.L.)

Dahlonega, GA - GALAXY 28 (S2160) - (89.0 W.L.)

SES-REG-20181009-05100 E E191478 Windstream Lexcom Communications, LLC

Registration

10/09/2018 - 10/09/2033

Grant of Authority

Date Effective: 01/22/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Montezuma, IA

LOCATION: 301 Locust st, Poweshiek, Deep River, IA

41 ° 34 ' 53.01 " N LAT.

92 ° 22 ' 22.25 " W LONG.

ANTENNA ID: ALL 4.7 meters SATCOM 4.7M Prime Focus

3700.0000 - 4200.0000 MHz 36M0G7W video, Digital

Points of Communication:

Montezuma, IA - AMC 10 (S2432) - (135 W.L.)

Montezuma, IA - AMC-1(S2445) - (130.90)

Montezuma, IA - AMC-11(S2433) - (131 W.L.)

Montezuma, IA - AMC-18 (S2713) - (139 WL)

Montezuma, IA - GALAXY 10R - (123 W.L.)

Montezuma, IA - GALAXY 13 (S2386) - (127 W.L.)

Montezuma, IA - GALAXY 14 (S2385) - (125 W.L.)

Montezuma, IA - GALAXY 15 (S2387) - (133.1)

Montezuma, IA - GALAXY 16 (S2687) - (99 W.L.)

Montezuma, IA - GALAXY 17 (S2715) - (91 W.L.)

Montezuma, IA - GALAXY 18 (S2733) - (123 W.L.)

Montezuma, IA - GALAXY 23 (S2592) - (121 W.L.)

Montezuma, IA - GALAXY 28 (S2160) - (89.0 W.L.)

SES-REG-20181011-04774 E E191144 SUNBEAM TELEVISION CORPORATION

Registration

08/21/2018 - 08/21/2033

Grant of Authority

Date Effective: 01/24/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 501 NW 207TH STREET (WSVN TRANSMITTER), MIAMI-DADE, MIAMI GARDENS, FL
25 ° 58 ' 1.00 " N LAT. 80 ° 12 ' 42.00 " W LONG.

ANTENNA ID:	4.5M.	4.5 meters	SCIENTIFIC ATLANTA	8345	
	3700.0000 - 4200.0000 MHz		1M64G7D	0.00 dBW	QPSK DATA
	3700.0000 - 4200.0000 MHz		11M5G7F	0.00 dBW	QPASK COMPRESSED VIDEO
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW	ANALOG VIDEO WITH AUDIO SUBCARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	QPSK, QPASK COMPRESSED, ANALOG VIDEO WITH AUDIO SUBCARRIERS

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200113-00056 E E050039 The University of Montana
Renewal 02/15/2020 - 02/15/2035
Grant of Authority Date Effective: 01/24/2020

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: UNIV. OF MT., BROADCAST MEDIA CENTER PARTV BLDG ROOM 180 (KUFM-FM), MISSOULA, MISSOULA, MT
46 ° 51 ' 28.20 " N LAT. 113 ° 59 ' 4.30 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW	ESA45-46
	3700.0000 - 4200.0000 MHz		30K0F1D	DIGITAL AUDIO CARRIER
	3700.0000 - 4200.0000 MHz		10M3G7W	DIGITAL AUDIO CARRIER

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200115-00031 E E950195 KPHO Broadcasting Corporation
Renewal 02/24/2020 - 02/24/2035
Grant of Authority Date Effective: 01/24/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 555 N. 7TH AVE., MARICOPA, PHOENIX, AZ
33 ° 31 ' 6.20 " N LAT. 112 ° 4 ' 51.30 " W LONG.

ANTENNA ID: 1 4.5 meters ANDREW CORPORATION ESA45-46A
3700.0000 - 4200.0000 MHz 36M0G7F NULL
ANTENNA ID: 2 7.3 meters ANDREW CORPORATION ESA73-NH1
3700.0000 - 4200.0000 MHz 4M00G7F NULL

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200117-00044 E E050023 Accelerated Media Technologies, Inc.
Renewal 03/08/2020 - 03/08/2035
Grant of Authority Date Effective: 01/27/2020

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: VARIOUS

ANTENNA ID: 1 1.8 meters VERTEX 1.8SMK LT 4P
14000.0000 - 14500.0000 MHz 24M0G7F 62.24 dBW PSK DIGITAL VIDEO W/DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz 36M0F8F 71.62 dBW ANALOG VIDEO W/ASSOCIATED AUDIO SUBCARRIERS AND ATIS
14000.0000 - 14500.0000 MHz 24M0F8F 68.62 dBW ANALOG VIDEO W/ASSOCIATED AUDIO SUBCARRIERS AND ATIS

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200117-00046 E E930367 Ligado Networks Subsidiary LLC
Renewal 03/13/2020 - 03/13/2035
Grant of Authority Date Effective: 01/27/2020

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1
LOCATION: 100,000 Full-duplex METs & "EMS" half-duplex data METs, CONUS, AK, HI, PR, V

ANTENNA ID: A1 WESTINGHOUSE/WEC Mast CD-JL01080, P-1000

1626.5000 - 1660.5000 MHz	5K00G7W	12.50 dBW		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	12.50 dBW		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	12.50 dBW		Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W			TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W			FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A10	0.35 meters		mitsubishi/melco Briefcase	ST151
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W			TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W			FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A11	0.25 meters		mitsubishi/melco Omniquest	ST251
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps

1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A12	CAL / Calquest		CQ100
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A13	mitsubishi/melco Transportable Dome		AU400A
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)

	1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID:	A14	0.46 meters	mitsubishi/melco omniquest fixed	OQFAU, ST251
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID:	A15	0.85 meters	mitsubishi/melco fixed	AU601B,ST221M
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID:	A16	0.46 meters	EMS/GETS	0955-A-0100
	1626.5000 - 1660.5000 MHz	5K00G7W	17.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)

	1626.5000 - 1660.5000 MHz	5K00G7W	17.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
	1626.5000 - 1660.5000 MHz	5K00G7W	17.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID:	A17	0.46 meters	WESTINGHOUSE/WEC M-1075 MARITIME	M-1075,D-100HF
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID:	A18	0 meters	WESTINGHOUSE WEC D DOME	CD-JL01003,,D-1000H
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)

1525.0000 - 1559.0000 MHz	5K00G7W			TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W			FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A19	0 meters	WEC D-1000MH MARITIME DOME	CDJL01003-G02	
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W			TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W			FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A2		WESTINGHOUSE/WEC Contour Dome	CD-JL01003, D-1000	
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W			TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W			FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A20		MITSUBISHI/MELCO DOME	AU201A, ST-211D	

1626.5000 - 1660.5000 MHz	5K00G7W	15.00 dBW		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	15.00 dBW		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	15.00 dBW		Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W			TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W			FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A21	0.6 meters		mitsubishi/melco Fixed	AU601A,ST-221
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW		Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W			TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W			FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A22	0.3 meters		KVH TRACPHONE	AU900A,ST131
1626.5000 - 1660.5000 MHz	5K00G7W	11.00 dBW		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	11.00 dBW		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps

1626.5000 - 1660.5000 MHz	5K00G7W	11.00 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A23	MITSUBISHI/MELCO MAST		AU110A,ST111
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A3	0.92 meters	WESTINGHOUSE/WEC Fixed Site(0.92m)	CD-JL01083, F-1000
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)

	1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID:	A4	0.76 meters	WESTINGHOUSE/WEC Fixed Site(0.76m)	CD-JL01083, F-1000
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID:	A5		WESTINGHOUSE/WEC Maritime Contour Dome	CD-JL01003-G02
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
	1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
	1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID:	A6	1.2 meters	WESTINGHOUSE/WEC Mult.Fixed Site	F-1000MC

1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A7	0.46 meters	WESTINGHOUSE/KVH SC Maritime	M-1015, D-100HF
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A8		MITSUBISHI/MELCO Dome	AU200A, ST-111D
1626.5000 - 1660.5000 MHz	5K00G7W	15.00 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	15.00 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps

1626.5000 - 1660.5000 MHz	5K00G7W	15.00 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: A9	0.6 meters	MITSUBISHI/MELCO Fixed Site	AU500A,ST-121
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
1626.5000 - 1660.5000 MHz	5K00G7W	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)
1525.0000 - 1559.0000 MHz	5K00G7W		TDM signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (GC-S-data)
1525.0000 - 1559.0000 MHz	5K00G7W		FDMA communications channel (voice or data) using differentially encoded QPSK at a transmission rate of 3375 bps
ANTENNA ID: D1		WESTINGHOUSE/WEC Contour Dome	CD-JL01003
1626.5000 - 1660.5000 MHz	5K00G7D	16.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-DT-data)
1626.5000 - 1660.5000 MHz	5K00G7D	16.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-DRr-data or MT-DRd-data)
1525.0000 - 1559.0000 MHz	5K00G7D		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (DH-D-data)
ANTENNA ID: D2	0.415 meters	NARROWBAND/Narrowband Fixed Site	RST 2000

	1626.5000 - 1660.5000 MHz	5K00G7D	13.80 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-DT-data)
	1626.5000 - 1660.5000 MHz	5K00G7D	13.80 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-DRr-data or MT-DRd-data)
	1525.0000 - 1559.0000 MHz	5K00G7D		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (DH-D-data)
ANTENNA ID: D3		NARROWBAND/Narrowband Mobile		MDT 1000
	1626.5000 - 1660.5000 MHz	5K00G7D	16.00 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-DT-data)
	1626.5000 - 1660.5000 MHz	5K00G7D	16.00 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-DRr-data or MT-DRd-data)
	1525.0000 - 1559.0000 MHz	5K00G7D		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (DH-D-data)
ANTENNA ID: D4		EATON/Eaton Mobile		SCM
	1626.5000 - 1660.5000 MHz	5K00G7D	16.00 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-DT-data)
	1626.5000 - 1660.5000 MHz	5K00G7D	16.00 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-DRr-data or MT-DRd-data)
	1525.0000 - 1559.0000 MHz	5K00G7D		TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (DH-D-data)
ANTENNA ID: D5		EMS/Packet Data/half duplex		PDT-100
	1626.5000 - 1660.5000 MHz	5K00G7D	11.50 dBW	TDMA signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-ST-data)
	1626.5000 - 1660.5000 MHz	5K00G7D	11.50 dBW	Slotted Aloha signaling channel using differentially encoded QPSK at a transmission rate of 3375 bps (MT-SR-data)

1525.0000 - 1559.0000 MHz

5K00G7D

TDMA signaling channel using
differentially encoded QPSK at a
transmission rate of 3375 bps
(GC-S-data)

Points of Communication:

1 - MSAT-1 - (107.5)

1 - MSAT-2 (AMSC-1) - (106.5 W.L.)

1 - SKYTERRA 1 - (101.3 W.L.)

SES-RWL-20200120-00049 E E950143 WHNT License, LLC

Renewal

03/10/2020 - 03/10/2035

Grant of Authority

Date Effective: 01/27/2020

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 200 HOLMES AVE. CONUS, HUNTSVILLE, AL

ANTENNA ID: 1 1.25 meters GD SATCOM C125M

14000.0000 - 14500.0000 MHz 2M00G7W 56.40 dBW DIGITAL VIDEO AND AUDIO

14000.0000 - 14500.0000 MHz 36M0G7W 63.40 dBW DIGITAL VIDEO AND AUDIO

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200120-00051 E E8329 Nortex Communications Company

Renewal

02/08/2020 - 02/08/2035

Grant of Authority

Date Effective: 01/24/2020

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: COOKE, VALLEY VIEW, TX

33 ° 29 ' 8.00 " N LAT.

97 ° 7 ' 11.00 " W LONG.

ANTENNA ID: 1 4.6 meters SCIENTIFIC ATLANTA 8346PF

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200121-00050 E E050009 Intelsat License LLC
Renewal 02/22/2020 - 02/22/2035
Grant of Authority Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: Mountainside Teleport 17625 Technology Boulevard, Washington, Hagerstown, MD
39 ° 35 ' 59.60 " N LAT. 77 ° 45 ' 27.50 " W LONG.

ANTENNA ID:	1	9 meters	VERTEX/KPC	KPC
5925.0000 - 6425.0000 MHz		72M0G7W	80.05 dBW	Digital Carrier, Various FEC, Modulation & Information
5925.0000 - 6425.0000 MHz		43K0G7W -	61.25 dBW	Digital Carrier, Various FEC, Modulation & Information
5925.0000 - 6425.0000 MHz		36M0F8W	78.20 dBW	Compressed Digital Video
3700.0000 - 4200.0000 MHz		72M0G7W -	0.00 dBW	Digital Carrier, Various FEC, Modulation & Information
3700.0000 - 4200.0000 MHz		43K0G7W	0.00 dBW	Digital Carrier, Various FEC, Modulation & Information
3700.0000 - 4200.0000 MHz		36M0F8W	0.00 dBW	Compressed Digital Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200124-00065 E E950188 Disney Channel
Renewal 04/14/2020 - 04/14/2035
Grant of Authority Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 3800 WEST ALAMEDA AVENUE, LOS ANGELES, BURBANK, CA
34 ° 9 ' 13.00 " N LAT. 118 ° 20 ' 26.00 " W LONG.

ANTENNA ID:	1	7 meters	RSI	700KS
14000.0000 - 14500.0000 MHz		25M0F8W	78.60 dBW	
11700.0000 - 12200.0000 MHz		25M0F8W		

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200124-00066 E E950058 Disney Channel
Renewal 03/31/2020 - 03/31/2035
Grant of Authority Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 3800 WEST ALAMEDA AVENUE, LOS ANGELES, BURBANK, CA
34 ° 9 ' 13.00 " N LAT. 118 ° 20 ' 29.30 " W LONG.

ANTENNA ID:	1	9.2 meters	RSI	920CS
	5925.0000 - 6425.0000 MHz		25M0F8W	87.00 dBW
	5925.0000 - 6425.0000 MHz		25M0F8W	77.40 dBW
	5925.0000 - 6425.0000 MHz		2M00G7W	77.90 dBW DIGITAL VIDEO AND AUDIO
	5925.0000 - 6425.0000 MHz		36M0G7W	78.00 dBW DIGITAL VIDEO AND AUDIO
	3700.0000 - 4200.0000 MHz		25M0F8W	
	3700.0000 - 4200.0000 MHz		2M00G7W	DIGITAL VIDEO AND AUDIO
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO AND AUDIO
ANTENNA ID:	2	7 meters	RSI	700CS
	5925.0000 - 6425.0000 MHz		25M0F8W	87.00 dBW
	5925.0000 - 6425.0000 MHz		25M0F8W	77.40 dBW
	5925.0000 - 6425.0000 MHz		2M00G7W	75.40 dBW DIGITAL VIDEO AND AUDIO
	5925.0000 - 6425.0000 MHz		36M0G7W	78.00 dBW DIGITAL VIDEO AND AUDIO
	3700.0000 - 4200.0000 MHz		25M0F8W	
	3700.0000 - 4200.0000 MHz		2M00G7W	DIGITAL VIDEO AND AUDIO
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO AND AUDIO

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20200124-00067 E E950069 Disney Channel
Renewal 02/24/2020 - 02/24/2035
Grant of Authority Date Effective: 01/27/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 3800 WEST ALAMEDA AVENUE, LOS ANGELES, BURBANK, CA
34 ° 9 ' 13.00 " N LAT. 118 ° 20 ' 28.30 " W LONG.

ANTENNA ID:	C1	9.2 meters	RSI	920 CS
5925.0000 - 6425.0000 MHz		25M0F8W	81.00 dBW	
5925.0000 - 6425.0000 MHz		36M0G7W	78.00 dBW	DIGITAL VIDEO AND AUDIO
5925.0000 - 6425.0000 MHz		2M00G7W	77.90 dBW	DIGITAL VIDEO AND AUDIO
3700.0000 - 4200.0000 MHz		25M0F8W		
3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL VIDEO AND AUDIO
3700.0000 - 4200.0000 MHz		2M00G7W		DIGITAL VIDEO AND AUDIO

Points of Communication:

1 - PERMITTED LIST - ()

SES-STA-20190904-01199 E E4132 Intelsat License LLC
Special Temporary Authority
Grant of Authority Date Effective: 01/22/2020

Class of Station:

On January 22, 2020, Intelsat License LLC was granted special temporary authority for 180 days to operate its fixed-satellite earth station located at geographic coordinates 34° 24' 22"N, 118° 53' 34"W in Fillmore, CA to provide launch and early orbit phase (LEOP) services and telemetry, tracking and command (TT&C) services for the MEV-1 (S2900) satellite, drifts as combined vehicle stack with the Intelsat 901 (S2405) satellite to the 27.5° W.L. orbital location on center frequencies: 5927.5 MHz, 6170.0 MHz, and 6180 MHz (Earth-to-space).

Points of Communication:

SES-STA-20191126-01588 E E4132 Intelsat License LLC
Special Temporary Authority
Grant of Authority Date Effective: 01/22/2020

Class of Station:

On January 22, 2020, Intelsat License LLC was granted special temporary authority for 30 days, beginning February 12, 2020, to operate its fixed earth station in Fillmore, CA, to provide launch and early orbit phase (LEOP) services for the GISAT-1 satellite at the 93.5° E.L. orbital location in the 6423.308 MHz and 6425.980 MHz (Earth-to-space), and 4199.145 MHz and 4199.582 MHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20200114-00052 E E070027 DIRECTV Enterprises, LLC
Special Temporary Authority
Grant of Authority

Date Effective: 01/22/2020

Class of Station:

On January 22, 2020, DIRECTV Enterprises, LLC was granted special temporary authority for 30 days, beginning January 22, 2020, to operate its fixed earth station in Castle Rock, CO to deorbit its SPACEWAY 1 satellite (S2191) within the azimuth and elevation limits: east limit 45.0° W.L. (with elevation of 14.5° and azimuth of 110.2°) and west limit of 165.0 ° W.L. (with elevation of 14.2° and azimuth of 250.1°) in all currently authorized frequency ranges.

Points of Communication:

SES-STA-20200114-00053 E E070123 DIRECTV Enterprises, LLC
Special Temporary Authority
Grant of Authority

Date Effective: 01/22/2020

Class of Station:

On January 22, 2020, DIRECTV Enterprises, LLC was granted special temporary authority for 30 days, beginning January 22, 2020, to operate its fixed earth station in Long Beach, CA to deorbit its SPACEWAY 1 (S2191) satellite within the azimuth and elevation limits: east limit of 55.0° W.L. (with elevation of 13.5° and azimuth of 105.7°) and west limit of 160.0 ° W.L. (with elevation of 30.8° and azimuth of 238.1°) in all currently authorized frequency ranges.

Points of Communication:

SES-STA-20200114-00054 E E080056 DIRECTV Enterprises, LLC
Special Temporary Authority
Grant of Authority

Date Effective: 01/22/2020

Class of Station:

On January 21, 2020, DIRECTV Enterprises, LLC was granted special temporary authority for 30 days, beginning January 21, 2020, to operate its fixed earth station in Moxee, WA with the SPACEWAY 1 (S2191) satellite within the azimuth and elevation limits: east limit of 70.0° W.L. (with elevation of 17.7° and azimuth of 121.0°), and west limit of 172.0 ° W.L. (with elevation of 17.0° and azimuth of 240.1°) in all currently authorized frequency ranges.

Points of Communication:

SES-STA-20200124-00064 E E170039 Intelsat License LLC
Special Temporary Authority
Grant of Authority

Date Effective: 01/24/2020

Class of Station:

On January 24, 2020, Intelsat License LLC was granted of special temporary authority for 30 days, beginning January 27, 2020, to operate its fixed earth station in Riverside, CA to perform de-orbit maneuvers for the Spaceway-1 (S2191) satellite on center frequencies: 19701.25 and 19702.25 MHz (space-to-earth), and 29.501.3021 and 29509.1146 MHz (Earth-to-space).

Points of Communication:

Dismissal

SES-STA-20190730-01019 E080100 Global Eagle Telecom Licensing Subsidiary LLC

Application dismissed. See IBFS File No. SES-MFS-20190312-00328 has been granted.

SES-STA-20190926-01245 E080100 Global Eagle Telecom Licensing Subsidiary LLC

Application dismissed. See IBFS File No. SES-MFS-20190312-00328 has been granted.

Dismissal

SES-STA-20190927-01247 E080100 Global Eagle Telecom Licensing Subsidiary LLC

Application dismissed. See IBFS File No. SES-MFS-20190312-00328 has been granted.

SES-STA-20191205-01641 E080100 Global Eagle Telecom Licensing Subsidiary LLC

Application dismissed. See IBFS File No. SES-MFS-20190312-00328 has been granted.

SES-STA-20191205-01642 E080100 Global Eagle Telecom Licensing Subsidiary LLC

Application dismissed. See IBFS File No. SES-MFS-20190312-00328 has been granted.

SURRENDER

SES-MOD-20110815-00960 E000623 AMV Digital Media formerly AEG Digital Media

License surrendered by letter filed on January 23, 2020.

SES-RWL-20101007-01268 E000590 AMV Digital Media formerly AEG Digital Media

License surrendered by letter filed on January 23, 2020.

SES-RWL-20101007-01269 E000622 AMV Digital Media formerly AEG Digital Media

License surrendered by letter filed on January 23, 2020.

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