



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-02025

Wednesday January 10, 2018

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-LIC-20170928-01065	E E170175	Comprehensive Nuclear Test Ban Treaty Organisation (CTBTO)	
Application for Authority			01/09/2018 - 01/09/2033
Grant of Authority			Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: c/o University of Hawaii at Manoa 73-4460 Queen Kaahumanu Hwy. #119, Hawaii, Kailua-Kona, HI
19 ° 36 ' 0.00 " N LAT. 155 ° 54 ' 0.00 " W LONG.

ANTENNA ID: 1	2.4 meters	Skyware Global	Type 244
3700.0000 - 4200.0000 MHz	1M20G7W	0.00 dBW	8PSK Digital Data
5925.0000 - 6425.0000 MHz	360KG7D	49.19 dBW	OQPSK Digital Data
ANTENNA ID: 2	2.4 meters	Skyware Global	Type 244
3700.0000 - 4200.0000 MHz	1M20G7W	0.00 dBW	8PSK Digital Data
5925.0000 - 6425.0000 MHz	360KG7D	49.19 dBW	OQPSK Digital Data

Points of Communication:

- 1 - JCSAT-2B - (154 E.L.)
- 1 - NSS 9 (S2756) - (177 W.L.)

SES-LIC-20170928-01066	E E170176	Comprehensive Nuclear Test Ban Treaty Organisation (CTBTO)	
Application for Authority			01/09/2018 - 01/09/2033
Grant of Authority			Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: c/o USGS San Juan Observatory Bo Montellano Marginal St KM 0.9, Cayey, Cayey, PR
18 ° 6 ' 37.00 " N LAT. 66 ° 9 ' 8.00 " W LONG.

ANTENNA ID:	1	2.4 meters	Skyware Global	Type 244
	3700.0000 - 4200.0000 MHz	1M20G7W	0.00 dBW	8PSK Digital Data
	5925.0000 - 6047.0000 MHz	360KG7D	49.19 dBW	OQPSK Digital Data
	6080.0000 - 6171.0000 MHz	360KG7D	49.19 dBW	OQPSK Digital Data
	6243.0000 - 6270.0000 MHz	360KG7D	49.19 dBW	OQPSK Digital Data
	6303.0000 - 6319.0000 MHz	360KG7D	49.19 dBW	OQPSK Digital Data
	6372.0000 - 6425.0000 MHz	360KG7D	49.19 dBW	OQPSK Digital Data

Points of Communication:

1 - INTELSAT 14 (S2785) - (45.0 W.L.)

SES-LIC-20170928-01067 E E170177 Comprehensive Nuclear Test Ban Treaty Organisation (CTBTO)
Application for Authority 01/09/2018 - 01/09/2033
Grant of Authority Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: FY5027, Building 754 Pearl Drive Eareckson AS, Aleutians West, Shemya Island, AK
52 ° 43 ' 26.40 " N LAT. 174 ° 7 ' 8.40 " E LONG.

ANTENNA ID:	1	2.4 meters	Skyware Global	Type 244
	3700.0000 - 4200.0000 MHz	1M20G7W	0.00 dBW	8PSK Digital Data
	5925.0000 - 6425.0000 MHz	360KG7D	49.19 dBW	OQPSK Digital Data

Points of Communication:

1 - JCSAT-2B - (154 E.L.)

SES-LIC-20170928-01068 E E170178 Comprehensive Nuclear Test Ban Treaty Organisation (CTBTO)
Application for Authority 01/09/2018 - 01/09/2033
Grant of Authority Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: Honolulu, Wake Island, HI
19 ° 16 ' 56.30 " N LAT. 166 ° 38 ' 49.30 " E LONG.

ANTENNA ID: 2 2.4 meters Skyware Global Type 244

5925.0000 - 6425.0000 MHz 360KG7D 49.19 dBW OQPSK Digital Data

3700.0000 - 4200.0000 MHz 1M20G7W 0.00 dBW 8PSK Digital Data

ANTENNA ID: 1 2.4 meters Skyware Global Type 244

3700.0000 - 4200.0000 MHz 1M20G7W 0.00 dBW 8PSK Digital Data

5925.0000 - 6425.0000 MHz 360KG7D 49.19 dBW OQPSK Digital Data

Points of Communication:

- 1 - JCSAT-2B - (154 E.L.)
- 1 - NSS 9 (S2756) - (177 W.L.)

SES-LIC-20171005-01108 E E170184 Optimera Inc. 01/09/2018 - 01/09/2033
Application for Authority Date Effective: 01/09/2018
Grant of Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 154 Bering Way, Aleutians East Borough, Nelson Lagoon, AK
55 ° 59 ' 14.90 " N LAT. 160 ° 34 ' 32.60 " W LONG.

ANTENNA ID: 3.8M. 3.8 meters General Dynamics 1385

3700.0000 - 4200.0000 MHz 1M35G7W Digital Data Carrier

3700.0000 - 4200.0000 MHz 5M00G7W Digital Data Carrier

3700.0000 - 4200.0000 MHz 25M0G7W Digital Data Carrier

5925.0000 - 6425.0000 MHz 1M35G7W 59.31 dBW Digital Data Carrier

5925.0000 - 6425.0000 MHz 5M00G7W 59.31 dBW Digital Data Carrier

5925.0000 - 6425.0000 MHz 25M0G7W 59.31 dBW Digital Data Carrier

Points of Communication:

- 1 - PERMITTED LIST - ()

SES-LIC-20171031-01222 E E170201 SES Americom, Inc.

Application for Authority
Grant of Authority

01/09/2018 - 01/09/2033
Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 5990 Solano Verde Dr, Ventura, Somis, CA
34 ° 19 ' 31.10 " N LAT.

118 ° 59 ' 46.20 " W LONG.

ANTENNA ID:	SM-C1	7.3 meters	Alpha Satcom	ASL 7.3 LMC
5925.0000 - 6425.0000 MHz		N0N	52.30 dBW	Analog CW carrier
5925.0000 - 6425.0000 MHz		100KG7D	63.10 dBW	Digital Data
5925.0000 - 6425.0000 MHz		3M70G7W	78.78 dBW	Digital Data
5925.0000 - 6425.0000 MHz		36M0G7W	78.78 dBW	Digital Data
5925.0000 - 6425.0000 MHz		54M0G7W	78.78 dBW	Digital Data
5925.0000 - 6425.0000 MHz		72M0G7W	78.78 dBW	Digital Data
3700.0000 - 4200.0000 MHz		N0N		Analog CW carrier
3700.0000 - 4200.0000 MHz		3M70G7W		Digital Data
3700.0000 - 4200.0000 MHz		36M0G7W		Digital Data
3700.0000 - 4200.0000 MHz		54M0G7W		Digital Data
3700.0000 - 4200.0000 MHz		72M0G7W		Digital Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20171110-01241 E E170202 DIRECTV Enterprises, LLC

Application for Authority
Grant of Authority

01/09/2018 - 01/09/2033
Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: NEDF

LOCATION: 1089 Mt. Eustis Rd, Grafton, Littleton, NH
44 ° 17 ' 8.40 " N LAT.

71 ° 47 ' 58.20 " W LONG.

ANTENNA ID:	NEDRB5	3.5 meters	Andrew	ES35-101-208
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17300.0000 - 17700.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
24750.0000 - 25150.0000 MHz	36M0G7W	75.70 dBW	PSK MOD DIGITAL VIDEO / AUDIO

Points of Communication:

NEDF - DIRECTV 14 (S2869) - (99.235 WL)
NEDF - DIRECTV 15 (S2930) - (102.75 W.L)
NEDF - DIRECTV RB-1 (S2711) - (99.235 W.L)
NEDF - DIRECTV RB-2 (S2712) - (102.825)

SES-LIC-20171110-01242	E	E170203	DIRECTV Enterprises, LLC	01/09/2018 - 01/09/2033
Application for Authority				Date Effective: 01/09/2018
Grant of Authority				

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: NEUF
LOCATION: 56 Packard Drive, Belknap, New Hampton, NH
43 ° 37 ' 24.25 " N LAT. 71 ° 38 ' 32.40 " W LONG.

ANTENNA ID: NERB10	3.5 meters	Andrew	ES35-101-208
17300.0000 - 17700.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
24750.0000 - 25150.0000 MHz	36M0G7W	75.70 dBW	PSK MOD DIGITAL VIDEO / AUDIO

Points of Communication:

NEUF - DIRECTV 14 (S2869) - (99.235 WL)
NEUF - DIRECTV 15 (S2930) - (102.75 W.L)
NEUF - DIRECTV RB-1 (S2711) - (99.235 W.L)
NEUF - DIRECTV RB-2 (S2712) - (102.825)

SES-LIC-20171110-01243	E	E170204	DIRECTV Enterprises, LLC	01/09/2018 - 01/09/2033
Application for Authority				Date Effective: 01/09/2018
Grant of Authority				

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: NWDF
LOCATION: 1306 Dolarway Rd., Kittitas, Ellensburg, WA
46 ° 59 ' 55.20 " N LAT. 120 ° 33 ' 54.80 " W LONG.

ANTENNA ID: NWDRB5	3.5 meters	Andrew	ES35-101-208
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3940.0000 - 4200.0000 MHz	1M54G7W		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
3940.0000 - 4200.0000 MHz	384KG7W		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
3700.0000 - 4200.0000 MHz	51K2G7D-		QPSK, Digital Multiplexed Carrier
3700.0000 - 4200.0000 MHz	36M0G7W		QPSK, Digital Multiplexed Carrier
3700.0000 - 3940.0000 MHz	51K2G7D-		QPSK, Digital Multiplexed Carrier
3700.0000 - 3940.0000 MHz	36M0G7W		QPSK, Digital Multiplexed Carrier
6689.0000 - 6699.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6689.0000 - 6699.0000 MHz	32M6G7W	69.10 dBW	QPSK, Digital Multiplexed Carrier
6689.0000 - 6699.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6689.0000 - 6699.0000 MHz	32M6G7W	69.10 dBW	QPSK, Digital Multiplexed Carrier
6587.0000 - 6687.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6587.0000 - 6687.0000 MHz	36M0G7W	72.00 dBW	QPSK, Digital Multiplexed Carrier
6587.0000 - 6687.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6587.0000 - 6587.0000 MHz	36M0G7W	72.00 dBW	QPSK, Digital Multiplexed Carrier
6225.0000 - 6425.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6225.0000 - 6425.0000 MHz	36M0G7W	68.40 dBW	QPSK, Digital Multiplexed Carrier
6225.0000 - 6425.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6225.0000 - 6425.0000 MHz	36M0G7W	68.40 dBW	QPSK, Digital Multiplexed Carrier
6169.0000 - 6171.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6169.0000 - 6171.0000 MHz	36M0G7W	68.40 dBW	QPSK, Digital Multiplexed Carrier
6169.0000 - 6171.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6169.0000 - 6171.0000 MHz	36M0G7W	68.40 dBW	QPSK, Digital Multiplexed Carrier
6031.0000 - 6097.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
6031.0000 - 6097.0000 MHz	36M0G7W	68.40 dBW	QPSK, Digital Multiplexed Carrier
6031.0000 - 6097.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier

6031.0000 - 6097.0000 MHz	36M0G7W	68.40 dBW	QPSK, Digital Multiplexed Carrier
5925.0000 - 5978.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
5925.0000 - 5978.0000 MHz	36M0G7W	68.40 dBW	QPSK, Digital Multiplexed Carrier
5925.0000 - 5978.0000 MHz	51K2G7D	43.60 dBW	QPSK, Digital Multiplexed Carrier
5925.0000 - 5978.0000 MHz	36M0G7W	68.40 dBW	QPSK, Digital Multiplexed Carrier
3700.0000 - 4200.0000 MHz	51K2G7D		QPSK, Digital Multiplexed Carrier
3700.0000 - 4200.0000 MHz	36M0G7W		QPSK, Digital Multiplexed Carrier
3700.0000 - 4200.0000 MHz	51K2G7D		QPSK, Digital Multiplexed Carrier
3700.0000 - 4200.0000 MHz	36M0G7W		QPSK, Digital Multiplexed Carrier

Points of Communication:

1 - JCSAT-3A - (128 E.L.)

1 - Mabuhay (AGILA 2) - (146 E.L.)

1 - PERMITTED LIST - ()

SES-MOD-20170925-01053	E E000296	Intelsat License LLC	
Application for Modification			08/09/2010 - 08/09/2025
Grant of Authority			Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 17625 TECHNOLOGY BLVD (MTN-C92), WASHINGTON, HAGERSTOWN, MD
39 ° 35 ' 54.00 " N LAT. 77 ° 45 ' 35.00 " W LONG.

ANTENNA ID: MTN-C92 9 meters VERTEX COMM. 9 KPC

6424.5000 - 6424.5000 MHz	850KF7D	84.70 dBW	TT&C
6424.5000 - 6424.5000 MHz	1M20F7D	84.70 dBW	TT&C
5925.0000 - 6425.0000 MHz	72M0G7W	86.50 dBW	DIGITAL DATA, VOICE AND VIDEO SERVICES
5925.0000 - 6425.0000 MHz	660KF2D	73.00 dBW	DIGITAL DATA, VOICE AND VIDEO SERVICES
5925.0000 - 6425.0000 MHz	56K0G7W	62.30 dBW	DIGITAL DATA, VOICE AND VIDEO SERVICES

5925.0000 - 6425.0000 MHz	1M08F2D	75.10 dBW	DIGITAL DATA, VOICE AND VIDEO SERVICES
5925.0000 - 6425.0000 MHz	900KF9D	74.30 dBW	TT&C
5925.0000 - 6425.0000 MHz	800KF9D	73.80 dBW	TT&C
5853.0000 - 5853.0000 MHz	850KF7D	84.70 dBW	TT&C
5853.0000 - 5853.0000 MHz	1M20F7D	84.70 dBW	TT&C
4199.2500 - 4199.2500 MHz	500KF7D		TT&C
4198.7500 - 4198.7500 MHz	500KF7D		TT&C
4198.2500 - 4198.2500 MHz	500KF7D		TT&C
4197.7500 - 4197.7500 MHz	500KF7D		TT&C
3700.0000 - 4200.0000 MHz	900KF9D		TT&C
3700.0000 - 4200.0000 MHz	660KF2D		TT&C
3700.0000 - 4200.0000 MHz	250KG9D		TT&C
3700.0000 - 4200.0000 MHz	1M08F2D		TT&C
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA, VOICE AND VIDEO SERVICES
3625.0000 - 4200.0000 MHz	56K0G7W		DIGITAL DATA, VOICE AND VIDEO SERVICES
3625.0000 - 4200.0000 MHz	800KF9D		TT&C
6176.3000 - 6176.3000 MHz	850KF7D	81.30 dBW	TT&C
6173.7000 - 6173.7000 MHz	850KF7D	81.30 dBW	TT&C
3952.5000 - 3952.5000 MHz	500KF7D		TT&C
3947.5000 - 3947.5000 MHz	500KF7D		TT&C
3952.0000 - 3952.0000 MHz	500KF7D		TT&C
3948.0000 - 3948.0000 MHz	500KF7D		TT&C

Points of Communication:

1 - INTELSAT 35e(S2959) - (34.5 W.L.)

1 - INTELSAT 37e (S2972) - (18.0 W.L.)

1 - INTELSAT 903 (S2407) - (31.5 W.L.)

1 - INTELSAT 903 (S2407) - (31.5 W.L.)

1 - PERMITTED LIST - ()

1 - SIRIUS FM 5 - (96 W.L.)

SES-MOD-20171009-01116 E E050255 DIRECTV Enterprises, LLC

Application for Modification

12/13/2005 - 12/13/2020

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: LADUF (CBC)

LOCATION: 3800 Via Oro Ave, Los Angeles, Long Beach, CA

33 ° 49 ' 44.40 " N LAT.

118 ° 12 ' 43.90 " W LONG.

ANTENNA ID:	LDKA2	8.1 meters	ANDREW	ES81KAA-101
	29250.0000 - 30000.0000 MHz	36M0G7W	68.30 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	28350.0000 - 28600.0000 MHz	36M0G7W	68.30 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	29525.0000 - 29535.0000 MHz	25K0N0N	54.60 dBW	Beacon Transmission - Clear Sky
	29525.0000 - 29535.0000 MHz	25K0N0N	74.60 dBW	Beacon Transmission - Max Faded
	29500.0000 - 29515.0000 MHz	1M30F8D	88.30 dBW	Multi-tone Frequency Modulated Command Carrier - Max Faded
	19700.0000 - 19710.0000 MHz	106KG9D		Phase Modulated Satellite Telemetry

ANTENNA ID:	LDKA1	8.1 meters	ANDREW	ES81KAA-101
	29250.0000 - 30000.0000 MHz	36M0G7W	68.30 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	28350.0000 - 28600.0000 MHz	36M0G7W	68.30 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	19700.0000 - 20200.0000 MHz	36M0G7W		PSK MOD DIGITAL VIDEO / AUDIO
	18300.0000 - 18800.0000 MHz	36M0G7W		PSK MOD DIGITAL VIDEO / AUDIO
	29525.0000 - 29535.0000 MHz	25K0N0N	54.60 dBW	Beacon Transmission - Clear Sky
	29525.0000 - 29535.0000 MHz	25K0N0N	74.60 dBW	Beacon Transmission - Max Faded

29500.0000 - 29515.0000 MHz	1M30F8D	88.30 dBW	Multi-tone Frequency Modulated Command Carrier - Max Faded
19700.0000 - 19710.0000 MHz	106KG9D		Phase Modulated Satellite Telemetry

Points of Communication:

LADUF (CBC) - DIRECTV 8 (K) - (101 W.L.)

LADUF (CBC) - PERMITTED LIST - ()

LADUF (CBC) - SPACEWAY 1 - (103 W.L.)

LADUF (CBC) - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171009-01117	E E090024	DIRECTV Enterprises, LLC	
Application for Modification			03/23/2009 - 03/23/2024
Grant of Authority			Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: CBC

LOCATION: 3800 Via Oro Ave., Los Angeles, Long Beach, CA

33 ° 49 ' 44.30 " N LAT.

118 ° 12 ' 42.90 " W LONG.

ANTENNA ID: LBKA4	9.2 meters	Vertex RSI	9mKa-01-00
29250.0000 - 30000.0000 MHz	36M0G7W	69.50 dBW	Modulation and Services PSK MOD Digital Video/Audio
28350.0000 - 28600.0000 MHz	36M0G7W	69.50 dBW	Modulation and Services PSK MOD Digital Video/Audio
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	Modulation and Services PSK MOD Digital Video/Audio
18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	Modulation and Services PSK MOD Digital Video/Audio
29525.0000 - 29535.0000 MHz	25K0N0N	55.80 dBW	Beacon Transmission - Clear Sky
29525.0000 - 29535.0000 MHz	25K0N0N	75.80 dBW	Beacon Transmission - Max Faded
29500.0000 - 29515.0000 MHz	1M30F8D	89.50 dBW	Multi-tone Frequency Modulated Command Carrier - Max Faded
29500.0000 - 29515.0000 MHz	1M30F9D	69.50 dBW	Multi-tone Frequency Modulated Command Carrier - Clear Sky
19700.0000 - 19710.0000 MHz	106KG9D		Phase Modulated Satellite Telemetry

Points of Communication:

CBC - DIRECTV 10 - (102.8 W.L.)

CBC - DIRECTV 11 - (99 W.L.)

CBC - DIRECTV 12 - (102.765 W)

CBC - DIRECTV 8 (K) - (101 W.L.)

CBC - DIRECTV 9S - (101 W.L.)

CBC - PERMITTED LIST - ()

CBC - SPACEWAY 1 - (103 W.L.)

CBC - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01144 E E160062 DIRECTV Enterprises, LLC

Application for Modification

07/06/2016 - 07/06/2031

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: 1

LOCATION: 12800 Culver Boulevard, Los Angeles, Los Angeles, CA

33 ° 58 ' 58.00 " N LAT.

118 ° 25 ' 33.00 " W LONG.

ANTENNA ID: 1 13.2 meters General Dynamics GD-13.2m

29250.0000 - 30000.0000 MHz 36M0G7W 80.00 dBW PSK MOD Digital Video/Audio

28350.0000 - 28600.0000 MHz 36M0G7W 80.00 dBW PSK MOD Digital Video/Audio

24750.0000 - 25150.0000 MHz 36M0G7W 80.00 dBW PSK MOD Digital Video/Audio

19700.0000 - 20200.0000 MHz 36M0G7W 0.00 dBW PSK MOD Digital Video/Audio

18300.0000 - 18800.0000 MHz 36M0G7W 0.00 dBW PSK MOD Digital Video/Audio

17300.0000 - 17700.0000 MHz 36M0G7W 0.00 dBW PSK MOD Digital Video/Audio

Points of Communication:

1 - DIRECTV RB-1 (S2711) - (99.235 W.L.)

1 - DIRECTV RB-2 (S2712) - (102.825)

1 - PERMITTED LIST - ()

SES-MOD-20171012-01144 E E990159 DIRECTV Enterprises, LLC

Application for Modification

09/03/2009 - 09/03/2024

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct Broadcast Satellite Service

SITE ID: LABC

LOCATION: 12800 CULVER BLVD., LOS ANGELES, LOS ANGELES, CA

33 ° 58 ' 57.10 " N LAT.

118 ° 25 ' 31.80 " W LONG.

ANTENNA ID:	9M-DBS	9.3 meters	RSI	930 KS
17300.0000 - 17800.0000 MHz		24M0G7W	89.20 dBW	DIGITAL TELEVISION
17300.0000 - 17800.0000 MHz		2M00F9D	87.40 dBW	TT&C
17300.0000 - 17800.0000 MHz		82K0F3N	87.40 dBW	FM SATELLITE TELEMETRY
17300.0000 - 17800.0000 MHz		1M00F2D	87.40 dBW	MULTI-TONE FEQUENCY MODULATED COMMAND CARRIER
12200.0000 - 12700.0000 MHz		24M0G7W		DIGITAL TELEVISION
12200.0000 - 12700.0000 MHz		2M00F9D		TT&C
12200.0000 - 12700.0000 MHz		82K0F3N		FM COMMAND CARRIER, NO DATA
12200.0000 - 12700.0000 MHz		1M00F2D		PHASE MODULATED SATELLITE TELEMETRY

Points of Communication:

LABC - DIRECTV - (Various)

SES-MOD-20171012-01146 E E930304 DIRECTV Enterprises, LLC

Application for Modification

11/19/2003 - 11/19/2018

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Other

SITE ID: CRBC

LOCATION: 5454 GARTON RD., DOUGLAS, CASTLE ROCK, CO

39 ° 16 ' 38.10 " N LAT.

104 ° 48 ' 29.50 " W LONG.

ANTENNA ID:	CDF09	13.1 meters	VERTEX RSI	13.1 KPKDBS
17300.0000 - 17800.0000 MHz		82K0F3N	87.30 dBW	FM COMMAND CARRIER, NO DATA
17300.0000 - 17800.0000 MHz		750KF2D	87.40 dBW	FM COMMAND CARRIER, DIGITAL DATA
17300.0000 - 17800.0000 MHz		3M20F3X	87.40 dBW	FM DIGITAL DATA AND VIDEO
17300.0000 - 17800.0000 MHz		24M0G7W	87.40 dBW	QPSK DIGITAL AUDIO/VIDEO

17300.0000 - 17800.0000 MHz	24M0G7W	87.40 dBW	QPSK DIGITAL AUDIO/VIDEO
17300.0000 - 17800.0000 MHz	3M20F3X	87.40 dBW	FM DIGITAL DATA AND VIDEO
17300.0000 - 17800.0000 MHz	82K0F3N	87.30 dBW	FM COMMAND CARRIER, NO DATA
17300.0000 - 17800.0000 MHz	1M00F2D	87.40 dBW	FM COMMAND CARRIER, DIGITAL DATA
17300.0000 - 17800.0000 MHz	750KF2D	87.40 dBW	FM COMMAND CARRIER, DIGITAL DATA
12200.0000 - 12700.0000 MHz	82K0F3N		FM COMMAND CARRIER, NO DATA
12200.0000 - 12700.0000 MHz	750KF2D		FM COMMAND CARRIER, DIGITAL DATA
12200.0000 - 12700.0000 MHz	3M20F3X		FM DIGITAL DATA AND VIDEO
12200.0000 - 12700.0000 MHz	24M0G7W		QPSK DIGITAL AUDIO/VIDEO
12200.0000 - 12700.0000 MHz	3M20F3X		FM DIGITAL DATA AND VIDEO
12200.0000 - 12700.0000 MHz	82K0F3N		FM COMMAND CARRIER, NO DATA
12200.0000 - 12700.0000 MHz	1M00F3D		FM COMMAND CARRIER, DIGITAL DATA
12200.0000 - 12700.0000 MHz	750KF2D		FM COMMAND CARRIER, DIGITAL DATA

Points of Communication:

CRBC - DIRECTV - (Various)

SES-MOD-20171012-01147 E E080026 DIRECTV Enterprises, LLC
Application for Modification 08/20/2008 - 08/20/2023
Grant of Authority Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: CRDUF

LOCATION: 370 Inverness Drive South, Douglas, Englewood, CO
39 ° 33 ' 36.80 " N LAT. 104 ° 51 ' 47.70 " W LONG.

ANTENNA ID: CKA17 9.1 meters VIASAT LEOP-9

29250.0000 - 30000.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
28350.0000 - 28600.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO

18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
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Points of Communication:

CRDUF - DIRECTV 10 - (102.8 W.L.)

CRDUF - DIRECTV 11 - (99.2 W.L.)

CRDUF - DIRECTV 8 (K) - (101 W.L.)

CRDUF - DIRECTV 9S - (101 W.L.)

CRDUF - PERMITTED LIST - ()

CRDUF - SPACEWAY 1 - (103 W.L.)

CRDUF - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01148 E E070074 DIRECTV Enterprises, LLC

Application for Modification

06/19/2007 - 06/19/2022

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: MWDF

LOCATION: 16815 197th Ave. NW, Big Lake, MN

45 ° 19 ' 40.50 " N LAT.

93 ° 41 ' 49.40 " W LONG.

ANTENNA ID: KA1 13.2 meters Vertex RSI 8471-01-00

29250.0000 - 30000.0000 MHz 36M0G7W 85.10 dBW PSK MOD DIGITAL VIDEO / AUDIO

28350.0000 - 28600.0000 MHz 36M0G7W 85.10 dBW PSK MOD DIGITAL VIDEO / AUDIO

19700.0000 - 20200.0000 MHz 36M0G7W 0.00 dBW PSK MOD DIGITAL VIDEO / AUDIO

18300.0000 - 18800.0000 MHz 36M0G7W 0.00 dBW PSK MOD DIGITAL VIDEO / AUDIO

ANTENNA ID: KA2 13.2 meters Vertex RSI 8471-01-00

29250.0000 - 30000.0000 MHz 36M0G7W 85.10 dBW PSK MOD DIGITAL VIDEO / AUDIO

28350.0000 - 28600.0000 MHz 36M0G7W 85.10 dBW PSK MOD DIGITAL VIDEO / AUDIO

19700.0000 - 20200.0000 MHz 36M0G7W 0.00 dBW PSK MOD DIGITAL VIDEO / AUDIO

18300.0000 - 18800.0000 MHz 36M0G7W 0.00 dBW PSK MOD DIGITAL VIDEO / AUDIO

Points of Communication:

MWDF - DIRECTV 10 - (102.8 W.L.)

MWDF - DIRECTV 11 - (99.2 W.L.)

MWDF - DIRECTV 12 - (103 W.L.)

MWDF - DIRECTV 8 (K) - (101 W.L.)

MWDF - DIRECTV 9S - (101 W.L.)

MWDF - PERMITTED LIST - ()

MWDF - SPACEWAY 1 - (103 W.L.)

MWDF - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01149 E E070023 DIRECTV Enterprises, LLC

Application for Modification

03/14/2007 - 03/14/2022

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 401 W. DIRECWAY (SWDF KA4), COCHISE, BENSON, AZ

31 ° 58 ' 22.30 " N LAT.

110 ° 18 ' 17.75 " W LONG.

ANTENNA ID:	SWDF KA1	9.1 meters	VIASAT	LEOP-9	
	29250.0000 - 30000.0000 MHz		36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	28350.0000 - 28600.0000 MHz		36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	19700.0000 - 20200.0000 MHz		36M0G7W		PSK MOD DIGITAL VIDEO / AUDIO
	18300.0000 - 18800.0000 MHz		36M0G7W		PSK MOD DIGITAL VIDEO / AUDIO

ANTENNA ID:	SWDF KA2	9.1 meters	VIASAT	LEOP-9	
	29250.0000 - 30000.0000 MHz		36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	28350.0000 - 28600.0000 MHz		36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
	19700.0000 - 20200.0000 MHz		36M0G7W		PSK MOD DIGITAL VIDEO / AUDIO
	18300.0000 - 18800.0000 MHz		36M0G7W		PSK MOD DIGITAL VIDEO / AUDIO

Points of Communication:

1 - DIRECTV 10 - (102.8 W.L.)

1 - DIRECTV 11 - (99.2 W.L.)

1 - DIRECTV 12 - (103 W.L.)

1 - DIRECTV 8 (K) - (101 W.L.)

- 1 - DIRECTV 9S - (101 W.L.)
- 1 - PERMITTED LIST - ()
- 1 - SPACEWAY 1 - (103 W.L.)
- 1 - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01150 E E060299 DIRECTV Enterprises, LLC
 Application for Modification 10/10/2006 - 10/10/2021
 Grant of Authority Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations
Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: 1
 LOCATION: 106 GRANT WAY (NWUF), YAKIMA, MOXEE, WA
 46 ° 33 ' 54.50 " N LAT. 120 ° 23 ' 57.10 " W LONG.

ANTENNA ID:	KA1	9.2 meters	Vertex RSI	9mKa-01-00
	29250.0000 - 30000.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
	28350.0000 - 28600.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
	19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
	18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
ANTENNA ID:	KA2	9.2 meters	Vertex RSI	9mKA-01-00
	29250.0000 - 30000.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
	28350.0000 - 28600.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
	19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
	18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO

Points of Communication:

- 1 - DIRECTV 12 - (103 W.L.)
- 1 - DIRECTV 8 (K) - (101 W.L.)
- 1 - DIRECTV 9S - (101 W.L.)
- 1 - PERMITTED LIST - ()
- 1 - SPACEWAY 1 - (103 W.L.)
- 1 - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01151 E E090076 DIRECTV Enterprises, LLC
Application for Modification 07/09/2009 - 07/09/2024
Grant of Authority Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct-to-Home Fixed Satellite Service, Fixed Satellite Service

SITE ID: NEUF
LOCATION: 56 Packard Drive, New Hampton, NH
43 ° 37 ' 26.60 " N LAT. 71 ° 38 ' 33.60 " W LONG.

ANTENNA ID: KA9	9.2 meters	VertexRSI	9MKa-01-00
29490.0000 - 29500.0000 MHz	1M30F9D	91.00 dBW	Multi-tone Frequency Modulated Command Carrier (Max Faded)
29490.0000 - 29500.0000 MHz	1M30F9D	76.00 dBW	Multi-tone Frequency Modulated Command Carrier (Clear Sky)
29250.0000 - 29260.0000 MHz	1M30F9D	76.00 dBW	Multi-tone Frequency Modulated Command Carrier (Clear Sky)
29250.0000 - 29260.0000 MHz	1M30F9D	91.00 dBW	Multi-tone Frequency Modulated Command Carrier (Max Faded)
29250.0000 - 29260.0000 MHz	160KF3N	91.00 dBW	Multi-tone Frequency Modulated Pointing Beacon (Max Faded)
29250.0000 - 29260.0000 MHz	160KF3N	76.00 dBW	Multi-tone Frequency Modulated Pointing Beacon (Clear Sky)
18300.0000 - 18305.0000 MHz	106KG9D	0.00 dBW	Phase Modulated Telemetry

Points of Communication:

- NEUF - DIRECTV 10 - (102.8 W.L.)
- NEUF - DIRECTV 11 - (99.2 W.L.)
- NEUF - DIRECTV 12 - (103 W.L.)

SES-MOD-20171012-01152 E E060298 DIRECTV Enterprises, LLC
Application for Modification 10/10/2006 - 10/10/2021
Grant of Authority Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: 1
LOCATION: 1306 W. Dolarway Rd. (NWDF), Kittitas County, Ellensburg, WA
46 ° 59 ' 55.60 " N LAT. 120 ° 33 ' 56.95 " W LONG.

ANTENNA ID: KA1	9.2 meters	Vertex RSI	9mKa-01-00
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29250.0000 - 30000.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
28350.0000 - 28600.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO

ANTENNA ID: KA2 9.2 meters Vertex RSI 9mKA-01-00

29250.0000 - 30000.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
28350.0000 - 28600.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO
18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO/AUDIO

Points of Communication:

- 1 - DIRECTV 12 - (103 W.L.)
- 1 - DIRECTV 8 (K) - (101 W.L.)
- 1 - DIRECTV 9S - (101 W.L.)
- 1 - PERMITTED LIST - ()
- 1 - SPACEWAY 1 - (103 W.L.)
- 1 - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01153 E E010129 DIRECTV Enterprises, LLC
 Application for Modification 11/06/2011 - 11/06/2026
 Grant of Authority Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct Broadcast Satellite Service, Fixed Satellite Service

SITE ID: LABC
 LOCATION: 12800 Culver Blvd., Los Angeles, Los Angeles, CA
 33 ° 58 ' 58.75 " N LAT. 118 ° 25 ' 31.50 " W LONG.

ANTENNA ID: A5/A6	11.3 meters	Vertex RSI	1100KS
17300.0000 - 17800.0000 MHz	24M0G7F	87.40 dBW	Feeder link / QPSK Digital Television
12200.0000 - 12700.0000 MHz	24M0G7F		QPSK Digital Television

Points of Communication:

LABC - DIRECTV - (Various)

SES-MOD-20171012-01154 E E060014 DIRECTV Enterprises, LLC
Application for Modification
Grant of Authority

03/17/2006 - 03/17/2021
Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: NEUF

LOCATION: 56 Packard Drive, New Hampton, NH
43 ° 37 ' 24.20 " N LAT.

71 ° 38 ' 32.40 " W LONG.

ANTENNA ID:	NEUF	3.5 meters	ANDREW	ES35-101-208
	29250.0000 - 30000.0000 MHz	8M50G7W	76.60 dBW	QPSK, MCPC/SCPC DATA/VIDEO
	29250.0000 - 30000.0000 MHz	14M1G7W	78.80 dBW	QPSK, MCPC/SCPC DATA/VIDEO
	29250.0000 - 30000.0000 MHz	5M70G1W	74.90 dBW	QPSK, SCPC DATA/VIDEO
	29250.0000 - 30000.0000 MHz	2M90G1W	71.90 dBW	QPSK, SCPC DATA/VIDEO
	29250.0000 - 30000.0000 MHz	2M20G1W	70.70 dBW	QPSK, SCPC DATA/VIDEO
	29250.0000 - 30000.0000 MHz	22M6G7W	80.80 dBW	QPSK, MCPC VIDEO/DATA
	29250.0000 - 30000.0000 MHz	54M0G7W	81.10 dBW	QPSK, MCPC VIDEO
	29250.0000 - 30000.0000 MHz	36M0G7W	81.10 dBW	QPSK, MCPC VIDEO
	29250.0000 - 30000.0000 MHz	24M0G7W	81.10 dBW	QPSK, MCPC VIDEO
	28350.0000 - 28600.0000 MHz	8M50G7W	76.60 dBW	QPSK, MCPC/SCPC DATA/VIDEO
	28350.0000 - 28600.0000 MHz	14M1G7W	78.80 dBW	QPSK, MCPC/SCPC DATA/VIDEO
	28350.0000 - 28600.0000 MHz	5M70G1W	74.90 dBW	QPSK, SCPC DATA/VIDEO
	28350.0000 - 28600.0000 MHz	2M90G1W	71.90 dBW	QPSK, SCPC DATA/VIDEO
	28350.0000 - 28600.0000 MHz	2M20G1W	70.70 dBW	QPSK, SCPC DATA/VIDEO
	28350.0000 - 28600.0000 MHz	22M6G7W	80.80 dBW	QPSK, MCPC VIDEO/DATA
	28350.0000 - 28600.0000 MHz	54M0G7W	81.10 dBW	QPSK, MCPC VIDEO
	28350.0000 - 28600.0000 MHz	36M0G7W	81.10 dBW	QPSK, MPC VIDEO
	28350.0000 - 28600.0000 MHz	24M0G7W	81.10 dBW	QPSK, MCPC VIDEO
	19700.0000 - 20200.0000 MHz	8M50G7W	0.00 dBW	QPSK, MCPC/SCPC DATA/VIDEO
	19700.0000 - 20200.0000 MHz	14M1G7W	0.00 dBW	QPSK, MCPC/SCPC DATA/VIDEO

19700.0000 - 20200.0000 MHz	5M70G1W	0.00 dBW	QPSK, SCPC DATA/VIDEO
19700.0000 - 20200.0000 MHz	2M90G1W	0.00 dBW	QPSK, SCPC DATA/VIDEO
19700.0000 - 20200.0000 MHz	2M20G1W	0.00 dBW	QPSK, SCPC DATA/VIDEO
19700.0000 - 20200.0000 MHz	22M6G7W	0.00 dBW	QPSK, MCPC VIDEO/DATA
19700.0000 - 20200.0000 MHz	54M0G7W	0.00 dBW	QPSK, MCPC VIDEO
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	QPSK, MCPC VIDEO
19700.0000 - 20200.0000 MHz	24M0G7W	0.00 dBW	QPSK, MCPC VIDEO
18300.0000 - 18800.0000 MHz	8M50G7W	0.00 dBW	QPSK, MCPC/SCPC DATA/VIDEO
18300.0000 - 18800.0000 MHz	14M1G7W	0.00 dBW	QPSK, MCPC/SCPC DATA/VIDEO
18300.0000 - 18800.0000 MHz	5M70G1W	0.00 dBW	QPSK, SCPC DATA/VIDEO
18300.0000 - 18800.0000 MHz	2M90G1W	0.00 dBW	QPSK, SCPC DATA/VIDEO
18300.0000 - 18800.0000 MHz	2M20G1W	0.00 dBW	QPSK, SCPC DATA/VIDEO
18300.0000 - 18800.0000 MHz	22M6G7W	0.00 dBW	QPSK, MCPC VIDEO/DATA
18300.0000 - 18800.0000 MHz	54M0G7W	0.00 dBW	QPSK, MCPC VIDEO
18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	QPSK, MCPC VIDEO
18300.0000 - 18800.0000 MHz	24M0G7W	0.00 dBW	QPSK, MCPC VIDEO

Points of Communication:

NEUF - DIRECTV 8 - (101 W.L.)

NEUF - SPACEWAY 1 - (103 W.L.)

NEUF - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01155 E E090069 DIRECTV Enterprises, LLC

Application for Modification

06/02/2009 - 06/02/2024

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct Broadcast Satellite Service

SITE ID: LABC

LOCATION: 12800 Culver Boulevard, Los Angeles, Los Angeles, CA

33 ° 58 ' 59.45 " N LAT.

118 ° 25 ' 30.40 " W LONG.

ANTENNA ID: LD04

11.3 meters

COMSAT RSI

1100 KS

17300.0000 - 17800.0000 MHz	2M00F9D	87.40 dBW	Telemetry, Tracking and Command
17300.0000 - 17800.0000 MHz	82K0F3N	87.40 dBW	Telemetry, Tracking and Command
17300.0000 - 17800.0000 MHz	1M00F2D	87.40 dBW	Telemetry, Tracking and Command
17300.0000 - 17800.0000 MHz	24M0G7W	87.40 dBW	Feeder link for DBS
12200.0000 - 12700.0000 MHz	2M00F9D	0.00 dBW	Telemetry, Tracking and Command
12200.0000 - 12700.0000 MHz	1M00F2D	0.00 dBW	Telemetry, Tracking and Command
12200.0000 - 12700.0000 MHz	82K0F3N	0.00 dBW	Telemetry, Tracking and Command
12200.0000 - 12700.0000 MHz	24M0G7W	0.00 dBW	Feeder link for DBS
ANTENNA ID: LD03	11.3 meters	COMSAT RSI	1100 KS
17300.0000 - 17800.0000 MHz	2M00F9D	87.40 dBW	Telemetry, Tracking and Command
17300.0000 - 17800.0000 MHz	82K0F3N	87.40 dBW	Telemetry, Tracking and Command
17300.0000 - 17800.0000 MHz	1M00F2D	87.40 dBW	Telemetry, Tracking and Command
17300.0000 - 17800.0000 MHz	24M0G7W	87.40 dBW	Feeder link for DBS
12200.0000 - 12700.0000 MHz	2M00F9D	0.00 dBW	Telemetry, Tracking and Command
12200.0000 - 12700.0000 MHz	1M00F2D	0.00 dBW	Telemetry, Tracking and Command
12200.0000 - 12700.0000 MHz	82K0F3N	0.00 dBW	Telemetry, Tracking and Command
12200.0000 - 12700.0000 MHz	24M0G7W	0.00 dBW	Feeder link for DBS

Points of Communication:

LABC - DIRECTV - (Various)

SES-MOD-20171012-01156 E E090025 DIRECTV Enterprises, LLC
 Application for Modification
 Grant of Authority

03/23/2009 - 03/23/2024
 Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: LABC

LOCATION: 12800 Culver Boulevard, Los Angeles, Los Angeles, CA
 33 ° 58 ' 57.60 " N LAT.

118 ° 25 ' 31.00 " W LONG.

ANTENNA ID: LKA16 9.2 meters Vertex RSI 9mKa-01-00

29250.0000 - 30000.0000 MHz	36M0G7W	69.50 dBW	Modulation and Services PSK MOD Digital Video/Audio
28350.0000 - 28600.0000 MHz	36M0G7W	69.50 dBW	Modulation and Services PSK MOD Digital Video/Audio
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	Modulation and Services PSK MOD Digital Video/Audio
18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	Modulation and Services PSK MOD Digital Video/Audio

Points of Communication:

LABC - DIRECTV 10 - (102.8 W.L.)

LABC - DIRECTV 11 - (99 W.L.)

LABC - DIRECTV 12 - (102.765 W)

LABC - DIRECTV 8 (K) - (101 W.L.)

LABC - DIRECTV 9S - (101 W.L.)

LABC - PERMITTED LIST - ()

LABC - SPACEWAY 1 - (103 W.L.)

LABC - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01157 E E070122 DIRECTV Enterprises, LLC

Application for Modification

08/31/2007 - 08/31/2022

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: LABC

LOCATION: 12800 Culver Boulevard, Los Angeles, Los Angeles, CA

33 ° 58 ' 57.80 " N LAT.

118 ° 25 ' 30.70 " W LONG.

ANTENNA ID: LKA15 9.2 meters Vertex RSI 9mKa-01-00

29525.0000 - 29535.0000 MHz	25K0N0N	75.80 dBW	Beacon Transmission - Max Faded
29500.0000 - 29515.0000 MHz	1M30F9D	89.50 dBW	Multi-tone Frequency Modulated Command Carrier - Max Faded
29500.0000 - 29515.0000 MHz	1M30F9D	69.50 dBW	Multi-tone Frequency Modulated Command Carrier - Clear Sky
29250.0000 - 30000.0000 MHz	36M0G7W	69.50 dBW	PSK MOD Digital Video/Audio
29250.0000 - 29350.0000 MHz	25K0N0N	55.80 dBW	Beacon Transmission - Clear Sky

28350.0000 - 28600.0000 MHz	36M0G7W	69.50 dBW	PSK MOD Digital Video/Audio
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD Digital Video/Audio
19700.0000 - 19710.0000 MHz	106KG9D	0.00 dBW	Phase Modulated Satellite Telemetry
18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD Digital Video/Audio

Points of Communication:

LABC - DIRECTV 10 - (102.8 W.L.)

LABC - DIRECTV 8 (K) - (101 W.L.)

LABC - PERMITTED LIST - ()

LABC - SPACEWAY 1 - (103 W.L.)

LABC - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01158 E E070111 DIRECTV Enterprises, LLC
 Application for Modification 09/11/2007 - 09/11/2022
 Grant of Authority Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SWUF

LOCATION: 9608 East Old Vail Rd., Pima County, Tucson, AZ

32 ° 5 ' 33.00 " N LAT.

110 ° 47 ' 14.90 " W LONG.

ANTENNA ID: KA1	9.1 meters	VIASAT	LEOP-9
29250.0000 - 30000.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
28350.0000 - 28600.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO

ANTENNA ID: KA2	9.1 meters	VIASAT	LEOP-9
29250.0000 - 30000.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
28350.0000 - 28600.0000 MHz	36M0G7W	83.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
19700.0000 - 20200.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO
18300.0000 - 18800.0000 MHz	36M0G7W	0.00 dBW	PSK MOD DIGITAL VIDEO / AUDIO

Points of Communication:

SWUF - DIRECTV 10 - (102.8 W.L.)

SWUF - DIRECTV 11 - (99.2 W.L.)

SWUF - DIRECTV 12 - (103 W.L.)

SWUF - DIRECTV 8 (K) - (101 W.L.)

SWUF - DIRECTV 9S - (101 W.L.)

SWUF - PERMITTED LIST - ()

SWUF - SPACEWAY 1 - (103 W.L.)

SWUF - SPACEWAY 2 - (99 W.L.)

SES-MOD-20171012-01159 E E010130 DIRECTV Enterprises, LLC

Application for Modification

11/06/2011 - 11/06/2026

Grant of Authority

Date Effective: 01/09/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service, Other

SITE ID: CRBC

LOCATION: 5454 Garton Rd., Douglas, Castle Rock, CO

39 ° 16 ' 38.60 " N LAT.

104 ° 48 ' 25.40 " W LONG.

ANTENNA ID: A35/A36 11.3 meters Vertex RSI 1100KS

17300.0000 - 17800.0000 MHz 24M0G7F 87.40 dBW Feeder Link / QPSK Digital Television

12200.0000 - 12700.0000 MHz 24M0G7F QPSK Digital Television

Points of Communication:

CRBC - DIRECTV - (Various)

SES-MOD-20171114-01252 E E850115 Nexstar Broadcasting, Inc.

Application for Modification

11/07/2007 - 11/07/2022

Grant of Authority

Date Effective: 01/03/2018

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: WRIC-TV, VARIOUS

ANTENNA ID: 1 1.25 meters GD SATCOM C125M

14000.0000 - 14500.0000 MHz 36M0G7W 63.59 dBW PSK DIGITAL VIDEO WITH ASSOC. DIGITAL AUDIO/DATA

11700.0000 - 12200.0000 MHz

36M0F9W

PSK DIGITAL VIDEO WITH ASSOC.
DIGITAL AUDIO/DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20171129-01283 E E130017 CBS Communications Services Inc.

Application for Modification

01/22/2013 - 01/22/2028

Grant of Authority

Date Effective: 01/08/2018

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 2119 CEDAR LAKE ROAD, JEFFERSON, GOLDEN, CO

39 ° 43 ' 50.00 " N LAT.

105 ° 14 ' 0.00 " W LONG.

ANTENNA ID: 1

4.5 meters

COMMSCOPE

ESA45

3700.0000 - 4200.0000 MHz

36M0G7W

DIGITAL AUDIO VIDEO, DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20030307-00276 E WT32 Comcast of Illinois/Ohio/Oregon, LLC

Renewal

03/18/2003 - 03/18/2018

Surrender of Authorization

Date Effective: 01/03/2018

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

License is surrendered per letter filed on January 3, 2017.

SITE ID: 1

LOCATION: COLUMBIANA, EAST PALESTINE, OH

40 ° 51 ' 0.00 " N LAT.

80 ° 36 ' 40.00 " W LONG.

ANTENNA ID: 1

5 meters

AFC

PR-16.4

3700.0000 - 4200.0000 MHz

36000F9

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20171218-01338 E E880575 University of Tennessee

Renewal

01/15/2018 - 01/15/2033

Grant of Authority

Date Effective: 01/03/2018

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: CIRCLE PARK DRIVE SUITE 91 COM-EXT BLDG., KNOX, KNOXVILLE, TN
35 ° 57 ' 7.00 " N LAT. 83 ° 55 ' 36.00 " W LONG.

ANTENNA ID:	No. 1	7 meters	SCIENTIFIC-ATLANTA	8010K
	14000.0000 - 14500.0000 MHz	36M0F8W	82.80 dBW	ANALOG VIDEO AND ASSOCIATED AUDIO SUBCARRIERS
	11700.0000 - 12200.0000 MHz	36M0F8W		ANALOG VIDEO AND ASSOCIATED AUDIO SUBCARRIERS

Points of Communication:

1 - PERMITTED LIST - ()

SES-STA-20171221-01357 E E170192 Astro Digital US, Inc.
Special Temporary Authority
Grant of Authority Date Effective: 01/03/2018

Class of Station:

On January 3, 2018, Astro Digital US, Inc. was granted special temporary authority for 30 days, beginning January 10, 2017, to operate a fixed earth station antenna in Sunnyvale, CA to perform tracking, telemetry and command (TT&C) services with the Astro Digital Landmapper non-geostationary satellite (S3014) on center frequencies 402.99 MHz (Earth-to-space) and 400.5 MHz (space-to-Earth).

Points of Communication:

SES-STA-20180103-00007 E E170121 Intelsat License LLC
Special Temporary Authority
Grant of Authority Date Effective: 01/09/2018

Class of Station:

On January 9, 2018, Intelsat License, LLC was granted special temporary authority for 30 days, beginning January 10, 2018, to operate a vehicle-mounted 18-inch Rantec Airborne SATCOM terminal to communicate with Intelsat 29e (S2913) satellite at the 50° W.L. orbital location in the 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands. This vehicle will operate in Maryland, Virginia, North Carolina, South Carolina, Georgia, and Florida while in motion.

Points of Communication:

SURRENDER

SES-LIC-20021204-02081	E020333	RCN License Subsidiary, Inc.
License surrendered by letter filed on January 4, 2018		
SES-RWL-20021108-02036	E930131	Comcast of Indiana/Kentucky/Utah
License surrendered by letter filed on January 3, 2017.		
SES-RWL-20030214-00203	E5265	Comcast of Georgia/Michigan, LP
License surrendered by letter filed on January 3, 2017.		
SES-RWL-20030219-00245	E5295	Comcast of Colorado/Pennsylvania/West Virginia, LLC
License surrendered by letter filed on January 3, 2017.		
SES-RWL-20030228-00254	E5337	Comcast Cable Communications Management, LLC
License surrendered by letter filed on January 3, 2017.		

SURRENDER

SES-RWL-20030311-00319

E5417

Comcast of Illinois/Indiana/Ohio, LLC

License surrendered by letter filed on January 3, 2017.

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