



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
445 12th STREET S.W.
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Report No. SES-02290

Wednesday August 5, 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-ASG-20200709-00729 E E181232 Charter Communications Operating, LLC
Application for Consent to Assignment
Consummated Date Effective: 07/09/2020

Current Licensee: Charter Communications Operating, LLC
FROM: Charter Communications Operating, LLC
TO: Spectrum NLP, LLC

No. of Station(s) listed: 2

SES-ASG-20200709-00730 E E181406 Spectrum Sunshine State, LLC
Application for Consent to Assignment
Consummated Date Effective: 07/09/2020

Current Licensee: Spectrum Sunshine State, LLC
FROM: SPECTRUM SUNSHINE STATE, LLC
TO: Spectrum Pacific West, LLC

No. of Station(s) listed: 1

SES-ASG-20200709-00731 E E181391 Falcon Video Communications, L.P.
Application for Consent to Assignment
Consummated Date Effective: 07/09/2020

Current Licensee: Falcon Video Communications, L.P.
FROM: FALCON VIDEO COMMUNICATIONS, LP
TO: Spectrum Pacific West, LLC

No. of Station(s) listed: 1

SES-ASG-20200709-00732 E E170111 Spectrum Pacific West, LLC
Application for Consent to Assignment
Consummated Date Effective: 07/09/2020

Current Licensee: Spectrum Pacific West, LLC
FROM: Spectrum Pacific West, LLC
TO: Spectrum Sunshine State, LLC

No. of Station(s) listed: 1

SES-ASG-20200709-00733 E E980458 Spectrum Mid-America, LLC
Application for Consent to Assignment
Consummated Date Effective: 07/09/2020

Current Licensee: Spectrum Mid-America, LLC
FROM: Spectrum Mid-America, LLC
TO: Spectrum NLP, LLC

No. of Station(s) listed: 1

SES-MOD-20180920-03674 E E180470 WLUK Licensee, LLC
Application for Modification 05/21/2018 - 05/21/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 787 Lombardi Ave, Brown, Green Bay, WI
44 ° 29 ' 59.60 " N LAT. 88 ° 3 ' 13.90 " W LONG.

ANTENNA ID:	4.5M.	4.5 meters	Scientific Atlanta	4.5M.
	3700.0000 - 4200.0000 MHz		36M0G7W	digital data: various FEC, data rates and modulation
ANTENNA ID:	2	4.5 meters	EASI	4.5
	3700.0000 - 4200.0000 MHz		36M0G7W	DigitalVideo and Data
ANTENNA ID:	3	3.7 meters	Dawn Co.	3.7
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
ANTENNA ID:	4	3.7 meters	AFC	3.7
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180924-03912 E E060410 WUNC Public Radio, LLC
Application for Modification 11/13/2006 - 11/13/2021
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1 Festival Park (WURD), Dare, Manteo, NC

35 ° 54 ' 37.40 " N LAT.

75 ° 39 ' 58.00 " W LONG.

ANTENNA ID: 3.7M. 3.7 meters Prodelin 3.7M.

3700.0000 - 4200.0000 MHz 30K0F1D DIGITAL BROADCAST AUDIO CARRIER

3700.0000 - 4200.0000 MHz 10M3G7W DIGITAL BROADCAST AUDIO CARRIER

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181004-03625 E E920585 Denali 20020, LLC

Application for Modification

03/05/2018 - 03/05/2033

Grant of Authority

Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 66C TELEPORT DRIVE, OKANOGAN, BREWSTER, WA

48 ° 8 ' 50.00 " N LAT.

119 ° 41 ' 28.00 " W LONG.

ANTENNA ID: 1 11 meters VERTEX 11 METER

14000.0000 - 14500.0000 MHz 36M0G9W 86.00 dBW

11700.0000 - 12200.0000 MHz 36M0G9W

5925.0000 - 6425.0000 MHz 2M40G7D 80.50 dBW DIGITAL DATA CARRIER

5925.0000 - 6425.0000 MHz 36M0F3F 81.90 dBW ANALOG VIDEO AND AUDIO CARRIERS

5925.0000 - 6425.0000 MHz 36M0G7F 83.50 dBW DIGITAL VIDEO CARRIER AND AUDIO

3700.0000 - 4200.0000 MHz 2M40G7D DIGITAL DATA CARRIER

3700.0000 - 4200.0000 MHz 36M0F3F ANALOG VIDEO AND AUDIO CARRIERS

3700.0000 - 4200.0000 MHz 36M0G7F DIGITAL VIDEO CARRIER AND AUDIO

ANTENNA ID: COM6.1M. 6.1 meters COMTECH 6.1 METER

3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL VIDEO CARRIER
ANTENNA ID: HER06.1M.	6.1 meters HERO	6.1 METER
3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL VIDEO CARRIER

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181011-03668	E E4335	KHOU-TV, Inc.	03/25/2018 - 03/25/2033
Application for Modification			Date Effective: 08/03/2020
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 3101 SENIOR ROAD, FORT BEND, MISSOURI CITY, TX
29 ° 33 ' 37.70 " N LAT. 95 ° 30 ' 6.30 " W LONG.

ANTENNA ID: 1	10 meters	SCIENTIFIC-ATLANTA	8002A- SHORT MOUNT
3700.0000 - 4200.0000 MHz	36M0F8W		
ANTENNA ID: SAT 2	4.5 meters	SCIENTIFIC-ATLANTA/VIASAT	8345
3700.0000 - 4200.0000 MHz	36M0G7W		DVB-S/S2, QPSK/8PSK ASI, Video downlink
ANTENNA ID: SAT 3	4.5 meters	SCIENTIFIC-ATLANTA/VIASAT	8345
3700.0000 - 4200.0000 MHz	36M0G7W		DVB-S/S2, QPSK/8PSK ASI, Video downlink

SITE ID: 2
LOCATION: 5718 WESTHEIMER RD., HARRIS, HOUSTON, TX
39 ° 41 ' 21.90 " N LAT. 95 ° 28 ' 43.50 " W LONG.

ANTENNA ID: SAT1	4.5 meters	SCIENTIFIC-ATLANTA/VIASAT	8345
3700.0000 - 4200.0000 MHz	36M0G7W		DVB-S/S2, QPSK/8PSK ASI, Video downlink
ANTENNA ID: SAT2	4.5 meters	SCIENTIFIC-ATLANTA/VIASAT	8345
3700.0000 - 4200.0000 MHz	36M0G7W		DVB-S/S2, QPSK/8PSK ASI, Video downlink
ANTENNA ID: SAT3	4.5 meters	SCIENTIFIC-ATLANTA/VIASAT	8345
3700.0000 - 4200.0000 MHz	36M0G7W		DVB-S/S2, QPSK/8PSK ASI, Video downlink

ANTENNA ID:	SAT4	4.5 meters	SCIENTIFIC-ATLANTA/VIASAT	8345
	3700.0000 - 4200.0000 MHz		36M0G7W	DVB-S/S2, QPSK/8PSK ASI, Video downlink

Points of Communication:

1 - PERMITTED LIST - ()

2 - PERMITTED LIST - ()

SES-MOD-20181012-03673	E	E180447	WACH Licensee, LLC	
Application for Modification				05/18/2018 - 05/18/2033
Grant of Authority				Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1400 Pickens Street Floor 6, Richland, Columbia, SC
34 ° 0 ' 22.70 " N LAT. 81 ° 1 ' 40.80 " W LONG.

ANTENNA ID:	5.0M.	5 meters	Andrew Corporation	ESA5B-46
	3700.0000 - 4200.0000 MHz		36M0G7W	digital data: various FEC, data rates and modulation
ANTENNA ID:	2	3.8 meters	Andrew Corporation	3.8
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
ANTENNA ID:	3	3.8 meters	Patriot	3.8M.
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
ANTENNA ID:	4	3 meters	Patriot	3.8M.
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181012-03785	E	E050073	KTUL Licensee, LLC	
Application for Modification				
Grant of Authority				Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 3333 S. 29TH W. AVE., (KTUL), TULSA, TULSA, OK
 36 ° 7 ' 1.00 " N LAT. 96 ° 1 ' 35.70 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORP	ESA45-46A
	3700.0000 - 4200.0000 MHz		36M0F3F	STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7F	COMPRESSED DIGITAL VIDEO
ANTENNA ID:	2	7.3 meters	ANDREW CORPORATION	7.3M.
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO AND DATA
ANTENNA ID:	3	4.5 meters	EASI	4.5M.
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO AND DATA
ANTENNA ID:	4	4.5 meters	SCIENTIFIC ATLANTA	4.5M.
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO AND DATA
ANTENNA ID:	5	4.5 meters	ANDREW CORPORATION	4.5M.
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO AND DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181012-03934 E E180458 KGAN Licensee, LLC
 Application for Modification 05/21/2018 - 05/21/2033
 Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 600 Old Marion Road NE, Linn, Cedar Rapids, IA
 42 ° 1 ' 37.70 " N LAT. 91 ° 38 ' 24.70 " W LONG.

ANTENNA ID:	7.0M.	7 meters	Scientific Atlanta, Inc.	8010
	3700.0000 - 4200.0000 MHz		36M0G7W	digital data: various FEC, data rates and modulation
ANTENNA ID:	2	4.6 meters	Scientific Atlanta	SA4.6
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
ANTENNA ID:	3	4.5 meters	DH	DH4.5

3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data
ANTENNA ID: 4	3.7 meters Andrew Corportion	AC3.7
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data
ANTENNA ID: 5	3.6 meters AFC	PR12
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data
ANTENNA ID: 6	3.6 meters Prodelin	Prod-3.6
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data
ANTENNA ID: 7	3.3 meters Intersat	Intersat 3.3
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data
ANTENNA ID: 8	3.1 meters Patriot	PRT-310
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data
ANTENNA ID: 9	3 meters Prodelin	Prod-3.0
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181015-03933	E E8202	WDEF-TV, Inc.	06/10/2008 - 06/10/2023
Application for Modification			Date Effective: 08/03/2020
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 3300 BROAD STREET, HAMILTON, CHATTANOOGA, TN
35 ° 0 ' 59.00 " N LAT. 85 ° 19 ' 18.00 " W LONG.

ANTENNA ID: ANT 1	7 meters S-A	8010
3700.0000 - 4200.0000 MHz	36M0F8W	ANALOG VIDEO, W/AUDIO & DATA SUBCARRIERS
3700.0000 - 4200.0000 MHz	36M0G7F	DIGITAL VIDEO, AUDIO, DATA, & TELEMETRY
ANTENNA ID: ANT 2	4.6 meters S-A	8005PF

3700.0000 - 4200.0000 MHz	36M0F8W			ANALOG VIDEO, W/AUDIO & DATA SUBCARRIERS
3700.0000 - 4200.0000 MHz	36M0G7F			DIGITAL VIDEO, AUDIO, DATA, & TELEMETRY
ANTENNA ID: ANT 4	3.8 meters	PATRIOT		3.8 METER
3700.0000 - 4200.0000 MHz	36M0F8W			ANALOG VIDEO, W/AUDIO & DATA SUBCARRIERS
3700.0000 - 4200.0000 MHz	36M0G7F			DIGITAL VIDEO, AUDIO, DATA, & TELEMETRY
ANTENNA ID: ANT 5	3 meters	PATRIOT		3.0 METER
3700.0000 - 4200.0000 MHz	36M0F8W			ANALOG VIDEO, W/AUDIO & DATA SUBCARRIERS
3700.0000 - 4200.0000 MHz	36M0G7F			DIGITAL VIDEO, AUDIO, DATA, & TELEMETRY
ANTENNA ID: ANT 6	3 meters	PRODELIN		3.0 METER
3700.0000 - 4200.0000 MHz	36M0F8W			ANALOG VIDEO, W/AUDIO & DATA SUBCARRIERS
3700.0000 - 4200.0000 MHz	36M0G7F			DIGITAL VIDEO, AUDIO, DATA, & TELEMETRY
ANTENNA ID: ANT 7	3.7 meters	PRODELIN		3.7 METER
3700.0000 - 4200.0000 MHz	36M0F8W			ANALOG VIDEO, W/AUDIO & DATA SUBCARRIERS
3700.0000 - 4200.0000 MHz	36M0G7F			DIGITAL VIDEO, AUDIO, DATA, & TELEMETRY

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181015-05829 E E180820 WJAR Licensee, LLC
 Application for Modification 06/12/2018 - 06/12/2033
 Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 23 Kenney Drive, Providence, Cranston, RI
 41 ° 44 ' 31.70 " N LAT. 71 ° 27 ' 17.90 " W LONG.

ANTENNA ID: 4.5M. 4.5 meters Andrew Corporation ESA45-46A

3700.0000 - 4200.0000 MHz	36M0G7W	Digital various FEC, data rates and modulation
ANTENNA ID: 2	4.5 meters ANDREW	ESA-45-4A
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181015-05978 E E180417 KVII Licensee, LLC
 Application for Modification 05/16/2018 - 05/16/2033
 Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 1 Broadcast Center, Potter, Amarillo, TX
 35 ° 12 ' 3.70 " N LAT. 101 ° 50 ' 2.50 " W LONG.

ANTENNA ID: 4.5M.	4.5 meters Comtech Antenna systems	4.5M.
3700.0000 - 4200.0000 MHz	36M0G7W	digital data: various FEC, data rates and modulation
ANTENNA ID: 2	3.7 meters Prodelin	PRO3.7
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data
ANTENNA ID: 3	2.4 meters Prodelin	PRO2.4
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data
ANTENNA ID: 4	4.5 meters Comtech	COM4.5
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video and Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181016-03296 E E181100 Spectrum NLP, LLC
 Application for Modification 06/25/2018 - 06/25/2033
 Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SITE ID: 1
LOCATION: 403 Urban Loop, Bexar, San Antonio, TX
29 ° 25 ' 20.60 " N LAT. 98 ° 30 ' 1.00 " W LONG.

ANTENNA ID:	1	2.4 meters	ATCI	5B
	3700.0000 - 4200.0000 MHz		36M0G7W	Video, Audio, Data
ANTENNA ID:	2	4.5 meters	ATCI	5B
	3700.0000 - 4200.0000 MHz		36M0G7W	Video, Audio, Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181017-03529 E KA273 AT&T Corp.
Application for Modification 08/06/2010 - 08/06/2025
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1700 S. BARDMAN AVENUE, LOS ANGELES, MALIBU, CA
34 ° 4 ' 50.30 " N LAT. 118 ° 53 ' 49.70 " W LONG.

ANTENNA ID:	1	32 meters	ROHR INDUSTRIES, INC.	10578
	5850.0000 - 6425.0000 MHz		18M0F3F-	85.40 dBW (TV)
	5850.0000 - 6425.0000 MHz		30M0F3F	85.40 dBW
	5850.0000 - 6425.0000 MHz		1M13F8W-	71.70 dBW (FDM-FM)
	5850.0000 - 6425.0000 MHz		36M0F8W	87.90 dBW (FDM-FM)
	5850.0000 - 6425.0000 MHz		30M7G7W	77.00 dBW (DATA)
	5850.0000 - 6425.0000 MHz		66M8G7W	81.20 dBW DATA
	5850.0000 - 6425.0000 MHz		72M0G7W	88.80 dBW TDMA
	5850.0000 - 6425.0000 MHz		307KG7W	55.70 dBW TDMA
	5850.0000 - 6425.0000 MHz		614KG7W	55.70 dBW TDMA
	5850.0000 - 6425.0000 MHz		1M23G7W	55.70 dBW TDMA
	5850.0000 - 6425.0000 MHz		38K4G7W	66.50 dBW SCPC
	5850.0000 - 6425.0000 MHz		54K6G7W	67.50 dBW IDR

5850.0000 - 6425.0000 MHz	437KG7W	76.80 dBW	IDR
5850.0000 - 6425.0000 MHz	874KG7W	79.80 dBW	IDR
5850.0000 - 6425.0000 MHz	1M31G7W	81.60 dBW	IDR
5850.0000 - 6425.0000 MHz	1M72G7W	82.80 dBW	IDR
5850.0000 - 6425.0000 MHz	5M13G7W	87.50 dBW	IDR
5850.0000 - 6425.0000 MHz	6M84G7W	85.90 dBW	IDR
5850.0000 - 6425.0000 MHz	81K9G7W	68.00 dBW	IBS
5850.0000 - 6425.0000 MHz	164KG7W	71.00 dBW	IBS
5850.0000 - 6425.0000 MHz	328KG7W	74.00 dBW	IBS
5850.0000 - 6425.0000 MHz	492KG7W	75.80 dBW	IBS
5850.0000 - 6425.0000 MHz	655KG7W	77.00 dBW	IBS
5850.0000 - 6425.0000 MHz	983KG7W	78.80 dBW	IBS
5850.0000 - 6425.0000 MHz	1M97G7W	81.80 dBW	IBS
5850.0000 - 6425.0000 MHz	2M62G7W	83.10 dBW	IBS
5850.0000 - 6425.0000 MHz	8M34G7W	87.40 dBW	IBS
5850.0000 - 6425.0000 MHz	11M2G7W	88.60 dBW	IBS
5850.0000 - 6425.0000 MHz	54K6G7W	69.60 dBW	IBS
5850.0000 - 6425.0000 MHz	109KG7W	72.60 dBW	IBS
5850.0000 - 6425.0000 MHz	218KG7W	75.60 dBW	IBS
5850.0000 - 6425.0000 MHz	328KG7W	77.40 dBW	IBS
5850.0000 - 6425.0000 MHz	437KG7W	78.60 dBW	IBS
5850.0000 - 6425.0000 MHz	655KG7W	80.40 dBW	IBS
5850.0000 - 6425.0000 MHz	1M31G7W	83.40 dBW	IBS
5850.0000 - 6425.0000 MHz	1M75G7W	84.70 dBW	IBS
5850.0000 - 6425.0000 MHz	5M56G7W	88.90 dBW	IBS
5850.0000 - 6425.0000 MHz	7M44G7W	90.10 dBW	IBS

3625.0000 - 4200.0000 MHz	18M0F3F
3625.0000 - 4200.0000 MHz	30M0F3F
3625.0000 - 4200.0000 MHz	1M13F8W
3625.0000 - 4200.0000 MHz	36M0F8W
3625.0000 - 4200.0000 MHz	30M7G7W
3625.0000 - 4200.0000 MHz	30M7G7W
3625.0000 - 4200.0000 MHz	66M8G7W
3625.0000 - 4200.0000 MHz	72M0G7W
3625.0000 - 4200.0000 MHz	307KG7W
3625.0000 - 4200.0000 MHz	614KG7W
3625.0000 - 4200.0000 MHz	1M23G7W
3625.0000 - 4200.0000 MHz	38K4G7W
3625.0000 - 4200.0000 MHz	54K6G7W
3625.0000 - 4200.0000 MHz	437KG7W
3625.0000 - 4200.0000 MHz	874KG7W
3625.0000 - 4200.0000 MHz	1M31G7W
3625.0000 - 4200.0000 MHz	1M72G7W
3625.0000 - 4200.0000 MHz	5M13G7W
3625.0000 - 4200.0000 MHz	6M84G7W
3625.0000 - 4200.0000 MHz	81K9G7W
3625.0000 - 4200.0000 MHz	164KG7W
3625.0000 - 4200.0000 MHz	328KG7W
3625.0000 - 4200.0000 MHz	655KG7W
3625.0000 - 4200.0000 MHz	983KG7W
3625.0000 - 4200.0000 MHz	1M97G7W
3625.0000 - 4200.0000 MHz	2M62G7W

3625.0000 - 4200.0000 MHz	8M34G7W
3625.0000 - 4200.0000 MHz	11M2G7W
3625.0000 - 4200.0000 MHz	54K6G7W
3625.0000 - 4200.0000 MHz	109KG7W
3625.0000 - 4200.0000 MHz	218KG7W
3625.0000 - 4200.0000 MHz	328KG7W
3625.0000 - 4200.0000 MHz	437KG7W
3625.0000 - 4200.0000 MHz	655KG7W
3625.0000 - 4200.0000 MHz	1M75G7W
3625.0000 - 4200.0000 MHz	5M56G7W
3625.0000 - 4200.0000 MHz	7M44G7W
3625.0000 - 4200.0000 MHz	492KG7W

ANTENNA ID: 2	13.1 meters	GEN DYNAMICS	SATCOM
5850.0000 - 6425.0000 MHz	54K6G7W	65.95 dBW	DIGITAL DTA
5850.0000 - 6425.0000 MHz	72M0G7W	84.28 dBW	DIGITAL DTA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DTA
3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DTA

ANTENNA ID: 3	11.1 meters	GEN DYNAMICS	SATCOM
5850.0000 - 6425.0000 MHz	54K6G7W	64.25 dBW	DIGITAL DTA
5850.0000 - 6425.0000 MHz	72M0G7W	82.50 dBW	DIGITAL DTA
3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DTA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DTA

Points of Communication:

- 1 - EUTELSAT174A(S2610) - (174 E. L.)
- 1 - INTELSAT 18 (S2817) - (180 E.L.)
- 1 - NSS 9 (S2756) - (177 W.L.)

1 - PERMITTED LIST - ()

SES-MOD-20181017-03613 E KA91 AT&T Corp.
 Application for Modification
 Grant of Authority

11/12/2006 - 11/12/2021
 Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1700 SOUTH BARDMAN AVENUE, LOS ANGELES, MALIBU, CA
 34 ° 4 ' 49.70 " N LAT. 118 ° 53 ' 47.20 " W LONG.

ANTENNA ID:	1	32 meters	ROHR INDUSTRIES, INC	10578
5850.0000 - 6425.0000 MHz	18M0F3F-	85.40 dBW	TV	
5850.0000 - 6425.0000 MHz	30M0F3F	85.40 dBW		
5850.0000 - 6425.0000 MHz	1M13F8W-	71.70 dBW	(FDM-FM)	
5850.0000 - 6425.0000 MHz	36M0F8W	87.90 dBW	(FDM-FM)	
5850.0000 - 6425.0000 MHz	72M0G7W	84.80 dBW	(TDMA)	
5850.0000 - 6425.0000 MHz	54K6G7W	67.50 dBW	IDR	
5850.0000 - 6425.0000 MHz	437KG7W	76.80 dBW	IDR	
5850.0000 - 6425.0000 MHz	874KG7W-	79.80 dBW	IDR	
5850.0000 - 6425.0000 MHz	1M31G7W	81.60 dBW	IDR	
5850.0000 - 6425.0000 MHz	1M72G7W-	82.80 dBW	IDR	
5850.0000 - 6425.0000 MHz	5M13G7W	87.50 dBW	IDR	
5850.0000 - 6425.0000 MHz	6M84G7W	85.90 dBW	IDR	
5850.0000 - 6425.0000 MHz	81K9G7W	68.00 dBW	IBS	
5850.0000 - 6425.0000 MHz	164KG7W	71.00 dBW	IBS	
5850.0000 - 6425.0000 MHz	328KG7W	74.00 dBW	IBS	
5850.0000 - 6425.0000 MHz	492KG7W	75.80 dBW	IBS	
5850.0000 - 6425.0000 MHz	655KG7W	77.00 dBW	IBS	
5850.0000 - 6425.0000 MHz	983KG7W	78.80 dBW	IBS	

5850.0000 - 6425.0000 MHz	1M97G7W	81.80 dBW	IBS
5850.0000 - 6425.0000 MHz	2M62G7W	83.10 dBW	IBS
5850.0000 - 6425.0000 MHz	8M34G7W	87.40 dBW	IBS
5850.0000 - 6425.0000 MHz	11M2G7W	88.60 dBW	IBS
5850.0000 - 6425.0000 MHz	54K6G7W	69.60 dBW	IBS
5850.0000 - 6425.0000 MHz	109KG7W	72.60 dBW	IBS
5850.0000 - 6425.0000 MHz	218KG7W	75.60 dBW	IBS
5850.0000 - 6425.0000 MHz	328KG7W	77.40 dBW	IBS
5850.0000 - 6425.0000 MHz	437KG7W	78.60 dBW	IBS
5850.0000 - 6425.0000 MHz	655KG7W	80.40 dBW	IBS
5850.0000 - 6425.0000 MHz	1M31G7W	83.40 dBW	IBS
5850.0000 - 6425.0000 MHz	1M75G7W	84.70 dBW	IBS
5850.0000 - 6425.0000 MHz	5M56G7W	88.90 dBW	IBS
5850.0000 - 6425.0000 MHz	7M44G7W	90.10 dBW	IBS
5850.0000 - 6425.0000 MHz	30M7G7W	77.00 dBW	(TDMA)
5850.0000 - 6425.0000 MHz	66M8G7W	81.20 dBW	(TDMA)
5850.0000 - 6425.0000 MHz	307KG7W	55.70 dBW	(TDMA)
5850.0000 - 6425.0000 MHz	614KG7W	55.70 dBW	(TDMA)
5850.0000 - 6425.0000 MHz	1M23G7W	55.70 dBW	(TDMA)
5850.0000 - 6425.0000 MHz	38K4G7W	66.50 dBW	SCPC
5850.0000 - 6425.0000 MHz	30M0G7W	77.00 dBW	IDR
5850.0000 - 6425.0000 MHz	33M4G7W	77.10 dBW	IDR
5850.0000 - 6425.0000 MHz	72M0G7W	88.80 dBW	IDR
5850.0000 - 6425.0000 MHz	36M0G7W	77.00 dBW	IDR
5850.0000 - 6425.0000 MHz	36M0G7W	77.00 dBW	IDR
5850.0000 - 6425.0000 MHz	33M4G7W	77.00 dBW	IDR

3625.0000 - 4200.0000 MHz	18M0F3F
3625.0000 - 4200.0000 MHz	30M0F3F
3625.0000 - 4200.0000 MHz	1M13F8W
3625.0000 - 4200.0000 MHz	36M0F8W
3625.0000 - 4200.0000 MHz	72M0G7W
3625.0000 - 4200.0000 MHz	54K6G7W
3625.0000 - 4200.0000 MHz	437KG7W
3625.0000 - 4200.0000 MHz	874KG7W
3625.0000 - 4200.0000 MHz	1M31G7W
3625.0000 - 4200.0000 MHz	1M72G7W
3625.0000 - 4200.0000 MHz	5M13G7W
3625.0000 - 4200.0000 MHz	6M84G7W
3625.0000 - 4200.0000 MHz	81K9G7W
3625.0000 - 4200.0000 MHz	164KG7W
3625.0000 - 4200.0000 MHz	328KG7W
3625.0000 - 4200.0000 MHz	492KG7W
3625.0000 - 4200.0000 MHz	655KG7W
3625.0000 - 4200.0000 MHz	983KG7W
3625.0000 - 4200.0000 MHz	1M97G7W
3625.0000 - 4200.0000 MHz	2M62G7W
3625.0000 - 4200.0000 MHz	8M34G7W
3625.0000 - 4200.0000 MHz	11M2G7W
3625.0000 - 4200.0000 MHz	109KG7W
3625.0000 - 4200.0000 MHz	218KG7W
3625.0000 - 4200.0000 MHz	328KG7W
3625.0000 - 4200.0000 MHz	437KG7W

3625.0000 - 4200.0000 MHz	655KG7W
3625.0000 - 4200.0000 MHz	1M31G7W
3625.0000 - 4200.0000 MHz	1M75G7W
3625.0000 - 4200.0000 MHz	5M56G7W
3625.0000 - 4200.0000 MHz	7M44G7W
3625.0000 - 4200.0000 MHz	30M7G7W
3625.0000 - 4200.0000 MHz	66M8G7W
3625.0000 - 4200.0000 MHz	307KG7W
3625.0000 - 4200.0000 MHz	614KG7W
3625.0000 - 4200.0000 MHz	1M23G7W
3625.0000 - 4200.0000 MHz	38K4G7W
3625.0000 - 4200.0000 MHz	30M0G7W
3625.0000 - 4200.0000 MHz	33M4G7W
3625.0000 - 4200.0000 MHz	72M0G7W
3625.0000 - 4200.0000 MHz	36M0G7W
3625.0000 - 4200.0000 MHz	36M0G7W
3625.0000 - 4200.0000 MHz	33M4G7W
3625.0000 - 4200.0000 MHz	54K6G7W

ANTENNA ID: 2	13.1 meters	GEN DYNAMICS	SATCOM
5850.0000 - 6425.0000 MHz	72M0G7W	84.28 dBW	DIGITAL DATA
5850.0000 - 6425.0000 MHz	54K6G7W	65.95 dBW	DIGITAL DATA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA
3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DATA
ANTENNA ID: 3	11.1 meters	GEN DYNAMICS	SATCOM
5850.0000 - 6425.0000 MHz	72M0G7W	82.58 dBW	DIGITAL DATA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA

3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DATA
5850.0000 - 6425.0000 MHz	54K6G7W	64.25 dBW	DIGITAL DATA

Points of Communication:

- 1 - INTELSAT 18 (S2817) - (180 E.L.)
- 1 - INTELSAT 21 (S2863) - (58.0 W.L.)
- 1 - INTELSAT 23 - (53 W. L.)
- 1 - INTELSAT 34(S2915) - (55.5 W.L.)
- 1 - PERMITTED LIST - ()

SES-MOD-20181017-03667	E KA444	AT&T Corp.	06/04/2017 - 06/04/2032
Application for Modification			Date Effective: 08/04/2020
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 311 EARTH STATION ROAD, COLUMBIA, CATAWISSA, PA
 40 ° 53 ' 36.10 " N LAT. 76 ° 26 ' 21.40 " W LONG.

ANTENNA ID:	RC2C	32 meters	NEC	STANDARD A
5850.0000 - 6425.0000 MHz	18M0F8F-	85.40 dBW	TV	
5850.0000 - 6425.0000 MHz	36M0F8F	87.90 dBW		
5850.0000 - 6425.0000 MHz	1M13F8W-	71.70 dBW	FDM	
5850.0000 - 6425.0000 MHz	36M0F8W	87.90 dBW		
5850.0000 - 6425.0000 MHz	30M7G7W	77.00 dBW	CABLE	
5850.0000 - 6425.0000 MHz	66M8G7W	81.20 dBW	CABLE	
5850.0000 - 6425.0000 MHz	72M0G7W	84.80 dBW	TDMA	
5850.0000 - 6425.0000 MHz	307KG7W-	55.70 dBW	TDMA	
5850.0000 - 6425.0000 MHz	1M23G7W	55.70 dBW	TDMA	
5850.0000 - 6425.0000 MHz	38K4G7W	66.50 dBW	SCPC	
5850.0000 - 6425.0000 MHz	54K6G7W-	67.50 dBW	IDR	
5850.0000 - 6425.0000 MHz	6M84G7W	85.90 dBW	IDR	

5850.0000 - 6425.0000 MHz	81K9G7W-	68.00 dBW	IBS
5850.0000 - 6425.0000 MHz	11M2G7W	88.60 dBW	IBS
5850.0000 - 6425.0000 MHz	54K6G7W-	69.60 dBW	IBS
5850.0000 - 6425.0000 MHz	7M44G7W	90.10 dBW	IBS

3625.0000 - 4200.0000 MHz

ANTENNA ID: 13.1 13.1 meters GEN DYNAMICS SATCOM

5850.0000 - 6425.0000 MHz	72M0G7W	84.28 dBW	DIGITAL DATA
5850.0000 - 6425.0000 MHz	54K6G7W	65.95 dBW	DIGITAL DATA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA
3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DATA

ANTENNA ID: 11.1M 11.1 meters GEN DYNAMICS SATCOM

5850.0000 - 6425.0000 MHz	72M0G7W	82.58 dBW	DIGITAL DATA
5850.0000 - 6425.0000 MHz	54K6G7W	64.25 dBW	DIGITAL DATA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA
5850.0000 - 6425.0000 MHz	54K6G7W		DIGITAL DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181017-03677	E WA33	AT&T Corp.	06/04/2019 - 06/04/2034
Application for Modification			Date Effective: 08/04/2020
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 311 EARTH STATION ROAD, COLUMBIA, CATAWISSA, PA
40 ° 53 ' 37.80 " N LAT. 76 ° 26 ' 20.60 " W LONG.

ANTENNA ID: RC1 32 meters TORONTO IRON WORKS SATCOM

5850.0000 - 6425.0000 MHz	18M0F8W-	85.40 dBW	TV
5850.0000 - 6425.0000 MHz	36M0F8W	85.40 dBW	TV

5850.0000 - 6425.0000 MHz	1M13F8W-	71.70 dBW	FDM/FM
5850.0000 - 6425.0000 MHz	36M0F8W	87.90 dBW	FDM/FM
5850.0000 - 6425.0000 MHz	30M7G7W	77.00 dBW	TCS-1 CABLE Restoration
5850.0000 - 6425.0000 MHz	66M8G7W	81.20 dBW	TAT-8/9 CABLE Restoration
5850.0000 - 6425.0000 MHz	72M0G7W	84.80 dBW	TDMA
5850.0000 - 6425.0000 MHz	307KG7W	55.70 dBW	TDMA
5850.0000 - 6425.0000 MHz	614KG7W	55.70 dBW	TDMA
5850.0000 - 6425.0000 MHz	1M23G7W	55.70 dBW	TDMA
5850.0000 - 6425.0000 MHz	38K4G7W	66.50 dBW	SCPC
5850.0000 - 6425.0000 MHz	54K6G7W-	67.50 dBW	IDR
5850.0000 - 6425.0000 MHz	6M84G7W	85.90 dBW	IDR
5850.0000 - 6425.0000 MHz	81K9G7W-	68.00 dBW	IBS
5850.0000 - 6425.0000 MHz	11M2G7W	88.60 dBW	IBS
5850.0000 - 6425.0000 MHz	54K6G7W-	69.60 dBW	IBS
5850.0000 - 6425.0000 MHz	7M44G7W	90.10 dBW	IBS
3625.0000 - 4200.0000 MHz			TV, FDM/FM, TCS-1 CABLE Restoration, TDMA, SCPC, IDR, IBS
ANTENNA ID: 11.1	11.1 meters	GENERAL DYNAMICS	SATCOM
5850.0000 - 6425.0000 MHz	72M0G7W	82.58 dBW	DIGITAL DATA
5850.0000 - 6425.0000 MHz	54K6G7W	64.25 dBW	DIGITAL DATA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA
3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DATA
ANTENNA ID: 13.1	13.1 meters	GENERAL DYNAMICS GENERAL DYNAMICS	SATCOM
5850.0000 - 6425.0000 MHz	54K6G7W	65.95 dBW	DIGITAL DATA
5850.0000 - 6425.0000 MHz	72M0G7W	84.28 dBW	DIGITAL DATA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA

3625.0000 - 4200.0000 MHz

54K6G7W

DIGITAL DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181017-03678 E E980493 AT&T Corp.

Application for Modification

05/29/2011 - 05/29/2026

Grant of Authority

Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 311 EARTH STATION ROAD, COLUMBIA, CATAWISSA, PA

40 ° 53 ' 39.30 " N LAT.

76 ° 26 ' 19.80 " W LONG.

ANTENNA ID:	1	18.3 meters	VERTEX	18.3 KPC
	5925.0000 - 6425.0000 MHz	36M0G7W	90.80 dBW	QPSK, DATA FEC 3/4, FDMA
	5925.0000 - 6425.0000 MHz	1M85G7W	81.70 dBW	QPSK, DATA, FEC 1/2, IBS
	5925.0000 - 6425.0000 MHz	1M54G7W	81.20 dBW	QPSK, DATA FEC 3/4, IDR
	5925.0000 - 6425.0000 MHz	1M24G7W	80.30 dBW	QPSK, DATA FEC 3/4, IBS
	5925.0000 - 6425.0000 MHz	205KG7W	72.30 dBW	QPSK, DATA FEC 3/4, IBS
	5925.0000 - 6425.0000 MHz	44K8G7W	65.90 dBW	QPSK, DATA FEC 3/4, IBS
	5850.0000 - 5925.0000 MHz	205KG7W	72.30 dBW	QPSK, DATA FEC 3/4, IBS
	5850.0000 - 5925.0000 MHz	1M24G7W	80.30 dBW	QPSK, DATA FEC 3/4, IBS
	5850.0000 - 5925.0000 MHz	1M54G7W	81.20 dBW	QPSK, DATA FEC 3/4, IDR
	5850.0000 - 5925.0000 MHz	1M85G7W	81.70 dBW	QPSK, DATA FEC 3/4, IBS
	5850.0000 - 5925.0000 MHz	36M0G7W	90.80 dBW	QPSK, DATA FEC 3/4, FDMA
	5850.0000 - 5925.0000 MHz	44K8G7W	65.90 dBW	QPSK, DATA FEC 3/4, IBS
	3700.0000 - 4200.0000 MHz	205KG7W		QPSK, DATA FEC 3/4, IBS
	3700.0000 - 4200.0000 MHz	44K8G7W		QPSK, DATA FEC 3/4, IBS
	3700.0000 - 4200.0000 MHz	1M24G7W		QPSK, DATA FEC 3/4, IBS
	3700.0000 - 4200.0000 MHz	1M54G7W		QPSK, DATA FEC 3/4, IDR

3700.0000 - 4200.0000 MHz	1M85G7W			QPSK, DATA FEC 3/4, IBS
3700.0000 - 4200.0000 MHz	36M0G7W			QPSK, DATA FEC 3/4, FDMA
3625.0000 - 3700.0000 MHz	36M0G7W			QPSK, DATA FEC 3/4, FDMA
3625.0000 - 3700.0000 MHz	1M85G7W			QPSK, DATA, FEC 1/2, IBS
3625.0000 - 3700.0000 MHz	1M54G7W			QPSK, DATA FEC 3/4, IDR
3625.0000 - 3700.0000 MHz	1M24G7W			QPSK, DATA FEC 3/4, IBS
3625.0000 - 3700.0000 MHz	205K8G7W			QPSK, DATA FEC 3/4, IBS
3625.0000 - 3700.0000 MHz	44K8G7W			QPSK, DATA FEC 3/4, IBS

ANTENNA ID: 2 16.4 meters VERTEX 16.4 METER

5925.0000 - 6425.0000 MHz	36M0G7W	85.43 dBW	DIGITAL DATA CARRIER
5925.0000 - 6425.0000 MHz	46K8G7W	65.08 dBW	DIGITAL DATA CARRIER
3700.0000 - 4200.0000 MHz	36M0G7W		DIGITAL DATA CARRIER
3700.0000 - 4200.0000 MHz	46K8G7W		DIGITAL DATA CARRIER

ANTENNA ID: 13.1 13.1 meters GEN DYNAMICS SATCOM

5850.0000 - 6425.0000 MHz	72M0G7W	84.28 dBW	DIGITAL DATA CARRIER
5850.0000 - 6425.0000 MHz	54K6G7W	65.95 dBW	DIGITAL DATA CARRIER
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA CARRIER
3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DATA CARRIER

Points of Communication:

1 - INTELSAT 11 (S2237) - (43.0 W.L.)

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

1 - PERMITTED LIST - ()

SES-MOD-20181017-03682 E KB32 AT&T Corp. 04/04/2006 - 04/04/2021
Application for Modification Date Effective: 08/04/2020
Grant of Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 1700 SOUTH BARDMAN AVENUE, LOS ANGELES, MALIBU, CA
 34 ° 4 ' 51.00 " N LAT. 118 ° 53 ' 47.30 " W LONG.

ANTENNA ID:	1	30 meters	ROHR INDUSTRIES, INC.	10578
	5850.0000 - 6425.0000 MHz	18M0F3F-	85.40 dBW	TV
	5850.0000 - 6425.0000 MHz	30M0F3F	85.40 dBW	TV
	5850.0000 - 6425.0000 MHz	1M13F8W-	71.70 dBW	FDM-FM
	5850.0000 - 6425.0000 MHz	36M0F8W	87.90 dBW	FDM-FM
	5850.0000 - 6425.0000 MHz	72M0G7W	84.80 dBW	TDMA
	5850.0000 - 6425.0000 MHz	33M4G7W	77.00 dBW	
	5850.0000 - 6425.0000 MHz	36M0G7W	77.00 dBW	
	5850.0000 - 6425.0000 MHz	72M0G7W	88.80 dBW	
	5850.0000 - 6425.0000 MHz	54K6G7W	67.50 dBW	
	5850.0000 - 6425.0000 MHz	437KG7W	76.80 dBW	
	5850.0000 - 6425.0000 MHz	874KG7W	79.80 dBW	
	5850.0000 - 6425.0000 MHz	1M31G7W	81.60 dBW	
	5850.0000 - 6425.0000 MHz	1M72G7W	82.80 dBW	
	5850.0000 - 6425.0000 MHz	5M13G7W	87.50 dBW	
	5850.0000 - 6425.0000 MHz	6M84G7W	85.90 dBW	
	5850.0000 - 6425.0000 MHz	81K9G7W	68.00 dBW	
	5850.0000 - 6425.0000 MHz	328KG7W	74.00 dBW	
	5850.0000 - 6425.0000 MHz	492KG7W	75.80 dBW	
	5850.0000 - 6425.0000 MHz	655KG7W	77.00 dBW	
	5850.0000 - 6425.0000 MHz	983KG7W	78.80 dBW	
	5850.0000 - 6425.0000 MHz	1M97G7W	54.90 dBW	
	5850.0000 - 6425.0000 MHz	2M62G7W	83.10 dBW	
	5850.0000 - 6425.0000 MHz	8M34G7W	87.40 dBW	

5850.0000 - 6425.0000 MHz	11M2G7W	88.60 dBW
5850.0000 - 6425.0000 MHz	54K6G7W	69.60 dBW
5850.0000 - 6425.0000 MHz	109KG7W	72.60 dBW
5850.0000 - 6425.0000 MHz	218KG7W	75.60 dBW
5850.0000 - 6425.0000 MHz	328KG7W	77.40 dBW
5850.0000 - 6425.0000 MHz	437KG7W	78.60 dBW
5850.0000 - 6425.0000 MHz	655KG7W	80.40 dBW
5850.0000 - 6425.0000 MHz	1M31G7W	83.40 dBW
5850.0000 - 6425.0000 MHz	1M75G7W	84.70 dBW
5850.0000 - 6425.0000 MHz	5M56G7W	88.90 dBW
5850.0000 - 6425.0000 MHz	7M44G7W	90.10 dBW
5850.0000 - 6425.0000 MHz	30M7G7W	77.00 dBW
5850.0000 - 6425.0000 MHz	66M8G7W	81.20 dBW
5850.0000 - 6425.0000 MHz	307KG7W	55.70 dBW
5850.0000 - 6425.0000 MHz	614KG7W	55.70 dBW
5850.0000 - 6425.0000 MHz	1M23G7W	55.70 dBW
5850.0000 - 6425.0000 MHz	38K4G7W	66.50 dBW
5850.0000 - 6425.0000 MHz	54K6G7W	67.50 dBW
5850.0000 - 6424.0000 MHz	164KG7W	71.00 dBW

3625.0000 - 4200.0000 MHz

ANTENNA ID: 13.1 13.1 meters GEN DYNAMICS SATCOM

5850.0000 - 6425.0000 MHz	54K6G7W	65.95 dBW	DIGITAL DATA
5850.0000 - 6425.0000 MHz	72M0G7W	84.28 dBW	DIGITAL DATA
3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DATA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA

ANTENNA ID: 11.1 11.1 meters GEN DYNAMICS SATCOM

5850.0000 - 6425.0000 MHz	72M0G7W	82.58 dBW	DIGITAL DATA
5850.0000 - 6425.0000 MHz	54K6G7W	64.25 dBW	DIGITAL DATA
3625.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA
3625.0000 - 4200.0000 MHz	54K6G7W		DIGITAL DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181017-03702 E E180804 WTOV Licensee, LLC
 Application for Modification 06/10/2018 - 06/10/2033
 Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 9 Red Donley Plaza (WTOV Site 1), Jefferson, Steubenville, OH
 40 ° 20 ' 33.00 " N LAT. 80 ° 37 ' 9.80 " W LONG.

ANTENNA ID: 4.5M.	4.5 meters	Andrew Corporation	ESA45.46A
3700.0000 - 4200.0000 MHz		36M0G7W	Digital various FEC, data rates and modulation
ANTENNA ID: 2	4.5 meters	Simulsat	SA
3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
ANTENNA ID: 3	5 meters	Paraclipse	PARA5.0
3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
ANTENNA ID: 4	2.5 meters	Paraclipse	PARA2.5
3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181023-03808 E E060031 Channel 32 Montgomery, LLC
 Application for Modification 02/07/2006 - 02/07/2021
 Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 3251 HARRISON ROAD (WNCN), MONTGOMERY, MONTGOMERY, AL
32 ° 22 ' 4.00 " N LAT. 86 ° 15 ' 43.00 " W LONG.

ANTENNA ID: 4.5M. 4.5 meters ANDREW CORP. ESA45-46A
3700.0000 - 4200.0000 MHz 36M0G7F COMPRESSED DIGITAL VIDEO

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181025-03801 E E872069 NLG Merger Corp.
Application for Modification 07/10/2007 - 07/10/2022
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: ONE HSN DRIVE, PINEALLAS, ST. PETERSBURG, FL
27 ° 52 ' 59.26 " N LAT. 82 ° 40 ' 4.50 " W LONG.

ANTENNA ID: 1 9.1 meters ANDREW CORPORATION ESA91-46-107
5985.0000 - 6365.0000 MHz 36M0G7W 81.20 dBW DIGITAL VIDEO
5925.0000 - 5965.0000 MHz 36M0G7W 75.90 dBW DIGITAL VIDEO
3700.0000 - 4200.0000 MHz 36M0G7W DIGITAL VIDEO
6385.0000 - 6425.0000 MHz 36M0G7W 78.90 dBW DIGITAL VIDEO

ANTENNA ID: 2 9.3 meters ANDREW CORPORATION ESA93-46
5985.0000 - 6365.0000 MHz 36M0G7W 81.30 dBW DIGITAL VIDEO
5925.0000 - 5965.0000 MHz 36M0G7W 75.90 dBW DIGITAL VIDEO
6385.0000 - 6425.0000 MHz 36M0G7W 78.90 dBW DIGITAL VIDEO
3700.0000 - 4200.0000 MHz 36M0G7W DIGITAL VIDEO

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181212-03707 E E010200 CoxCom, LLC
Application for Modification 07/16/2011 - 07/16/2026
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 490 S 48TH ST., WASHINGTON, SPRINGDALE, AR
36 ° 8 ' 29.70 " N LAT. 94 ° 10 ' 37.80 " W LONG.

ANTENNA ID:	1	4.5 meters	PATRIOT	4.5 METER
	3700.0000 - 4200.0000 MHz		36M0G7F	DIGITAL VIDEO
	3700.0000 - 4200.0000 MHz		36M0F8F	ANALOG VIDEO
ANTENNA ID:	5M.	5 meters	DAWNCODH	5 METER
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO CARRIER

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20190523-00780 E E5348 Sinclair Television Media, Inc.
Application for Modification 11/18/2019 - 11/18/2034
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 8700 S.W. 159th Street, KING, VASHON ISLAND, WA
47 ° 27 ' 52.40 " N LAT. 122 ° 26 ' 39.20 " W LONG.

ANTENNA ID:	1	12 meters	ANDREW CORP.	ESA12-46
	5925.0000 - 6425.0000 MHz		36M0G1W	82.50 dBW
	5925.0000 - 6425.0000 MHz		36M0F3W	82.50 dBW
	3700.0000 - 4200.0000 MHz		36M0G1W	
	3700.0000 - 4200.0000 MHz		36M0F3W	

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20200616-00637 E E000220 AMC Networks Broadcasting & Technology
Application for Modification 06/30/2010 - 06/30/2025
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 620 HICKSVILLE ROAD, NASSAU, BETHPAGE, NY
 40 ° 44 ' 37.30 " N LAT. 73 ° 29 ' 38.10 " W LONG.

ANTENNA ID:	1	9 meters	VERTEX	9 KPC	
	5925.0000 - 6425.0000 MHz		9M00G7F	71.78 dBW	DIGITAL VIDEO, AUDIO AND DATA CARRIERS
	5925.0000 - 6425.0000 MHz		36M0G7F	77.80 dBW	DIGITAL VIDEO, AUDIO AND DATA CARRIERS
	3700.0000 - 4200.0000 MHz		9M00G7F		DIGITAL VIDEO, AUDIO AND DATA CARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7F		DIGITAL VIDEO, AUDIO AND DATA CARRIERS
ANTENNA ID:	2	7.2 meters	VERTEX	7.2 KPC	
	5925.0000 - 6425.0000 MHz		9M00G7F	68.69 dBW	DIGITAL VIDEO, AUDIO AND DATA CARRIERS
	5925.0000 - 6425.0000 MHz		36M0G7F	74.71 dBW	DIGITAL VIDEO, AUDIO AND DATA CARRIERS
	3700.0000 - 4200.0000 MHz		9M00G7F		DIGITAL VIDEO, AUDIO AND DATA CARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7F		DIGITAL VIDEO, AUDIO AND DATA CARRIERS
ANTENNA ID:	3-RO	6.1 meters	VERTEX	6.1KXC	
	3700.0000 - 4200.0000 MHz		9M00G7F		DIGITAL VIDEO, AUDIO AND DATA CARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7F		DIGITAL VIDEO, AUDIO AND DATA CARRIERS

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180703-01984 E E181229 Spectrum NLP, LLC
 Registration 07/03/2018 - 07/03/2033
 Grant of Authority Date Effective: 12/13/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SITE ID: 1
LOCATION: 2345 Alaska Ave, Los Angeles, El Segundo, CA
33 ° 54 ' 27.70 " N LAT. 118 ° 22 ' 53.00 " W LONG.

ANTENNA ID: 1 4.6 meters General Prime
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data
ANTENNA ID: 2 4 meters Patriot PRT-380
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data
ANTENNA ID: 3 3.8 meters Prodelin 1375
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180910-10716 E E202010 Buford Satellite Systems. L.P.
Registration 09/04/2018 - 09/04/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Central Arizona CF
LOCATION: 1401 E. Diversion Dam Rd., Pinal, Florence, AZ
33 ° 2 ' 15.10 " N LAT. 111 ° 22 ' 9.89 " W LONG.

ANTENNA ID: Central 3 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W
ANTENNA ID: Central 2 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W
ANTENNA ID: Central 1 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Central Arizona CF - PERMITTED LIST - ()

SES-REG-20180910-10726 E E202021 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Alger Correctional
LOCATION: N6141 Industrial Park Dr., Alger, Munising, MI
46 ° 22 ' 3.73 " N LAT. 86 ° 38 ' 2.09 " W LONG.

ANTENNA ID: Alger 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Alger 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Alger 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Alger Correctional - PERMITTED LIST - ()

SES-REG-20180910-10727 E E202022 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Baraga
LOCATION: 13924 Wadaga Road, Baraga, Baraga, MI
46 ° 45 ' 5.01 " N LAT. 88 ° 30 ' 4.19 " W LONG.

ANTENNA ID: Baraga 4 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Baraga 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Baraga 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Baraga 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Baraga - PERMITTED LIST - ()

SES-REG-20180910-10730 E E202025 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Detroit Reentry CF
LOCATION: 17600 Ryan Road, Wayne, Detroit, MI
42 ° 25 ' 2.67 " N LAT. 83 ° 3 ' 1.36 " W LONG.

ANTENNA ID: Detroit 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Detroit 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Detroit 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Detroit Reentry CF - PERMITTED LIST - ()

SES-REG-20180910-10733 E E202028 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Huron Valley Women's
LOCATION: 3511 Bemis Road, Washtenaw, Ypsilanti, MI
42 ° 10 ' 0.99 " N LAT. 83 ° 41 ' 2.92 " W LONG.

ANTENNA ID: Huron 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Huron 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Huron Valley Women's - PERMITTED LIST - ()

SES-REG-20180910-10736 E E202031 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Muskegon CF
LOCATION: 2500 S. Sheridan Road, Muskegon, Muskegon, MI
43 ° 12 ' 4.05 " N LAT. 86 ° 10 ' 5.01 " W LONG.

ANTENNA ID: Muskegon 4 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Muskegon 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Muskegon 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Muskegon 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Muskegon 5 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Muskegon CF - PERMITTED LIST - ()

SES-REG-20180910-10737 E E202032 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Marquette
LOCATION: 1960 US HWY. 41 S, Marquette, Marquette, MI
46 ° 30 ' 4.06 " N LAT. 87 ° 23 ' 0.32 " W LONG.

ANTENNA ID: Marquette3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Marquette2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Marquette1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Marquette - PERMITTED LIST - ()

SES-REG-20180910-10740 E E202035 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Parnall
LOCATION: 1780 R. Parnall Road, Jackson, Jackson, MI
42 ° 17 ' 3.95 " N LAT. 84 ° 23 ' 1.29 " W LONG.

ANTENNA ID: Parnall 4 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Parnall 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Parnall 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Parnall 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Parnall 5 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Parnall - PERMITTED LIST - ()

SES-REG-20180910-10743 E E202054 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Thumb CF
LOCATION: 3225 John Conley Drive, Lapeer, Lapeer, MI
43 ° 2 ' 0.44 " N LAT. 83 ° 20 ' 5.86 " W LONG.

ANTENNA ID: Thumb 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Thumb 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Thumb 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Thumb CF - PERMITTED LIST - ()

SES-REG-20180910-10747 E E202058 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: NE Corr. For Women
LOCATION: 1107 Recharge Road, York, York, NE
40 ° 51 ' 5.18 " N LAT. 97 ° 37 ' 4.83 " W LONG.

ANTENNA ID: NECenter3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: NECenter2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: NECenter1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

NE Corr. For Women - PERMITTED LIST - ()

SES-REG-20180910-10748 E E202059 Buford Satellite Systems. L.P.
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Nebraska State Pen
LOCATION: 4201 S. 14th Street, Lancaster, Lincoln, NE
40 ° 46 ' 1.17 " N LAT. 96 ° 42 ' 1.58 " W LONG.

ANTENNA ID: NE State 1 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Nebraska State Pen - PERMITTED LIST - ()

SES-REG-20180910-10763 E E202110 Buford Satellite Systems. L.P.
Registration 09/06/2018 - 09/06/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Cold Springs Work
LOCATION: 221 Spitler Circle, Augusta, Greenville, VA
37 ° 59 ' 29.84 " N LAT. 79 ° 9 ' 3.44 " W LONG.

ANTENNA ID: ColdSprin3 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: ColdSprin2 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: ColdSprin1 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Cold Springs Work - PERMITTED LIST - ()

SES-REG-20180910-10765 E E202107 Buford Satellite Systems. L.P.
Registration 09/06/2018 - 09/06/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Deerfield CC
LOCATION: 21360 Deerfield Drive, Southampton, Capron, VA
36 ° 43 ' 44.97 " N LAT. 77 ° 14 ' 52.13 " W LONG.

ANTENNA ID:	Deerfield3	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	Deerfield2	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	Deerfield1	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	

Points of Communication:

Deerfield CC - PERMITTED LIST - ()

SES-REG-20180910-10777	E	E202095	Buford Satellite Systems. L.P.	09/06/2018 - 09/06/2033
Registration				Date Effective: 08/03/2020
Grant of Authority				

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Wyoming Med. Prison
 LOCATION: 7076 Road 55 F, Goshen, Torrington, WY
 42 ° 4 ' 16.36 " N LAT. 104 ° 7 ' 3.12 " W LONG.

ANTENNA ID:	WyMedium3	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	WyMedium2	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	WyMedium1	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	

Points of Communication:

Wyoming Med. Prison - PERMITTED LIST - ()

SES-REG-20180910-10780	E	E202091	Buford Satellite Systems. L.P.	09/07/2018 - 09/07/2033
Registration				Date Effective: 08/03/2020
Grant of Authority				

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Central Arizona CF
LOCATION: 1401 E. Diversion Dam Rd., Pinal, Florence, AZ
33 ° 2 ' 15.10 " N LAT. 111 ° 22 ' 9.89 " W LONG.

ANTENNA ID: Central 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Central 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Central 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Central Arizona CF - PERMITTED LIST - ()

SES-REG-20180910-10782 E E202089 Buford Satellite Systems. L.P.
Registration 09/07/2018 - 09/07/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: NE Corr. For Women
LOCATION: 1107 Recharge Road, York, York, NE
40 ° 51 ' 51.80 " N LAT. 97 ° 37 ' 48.30 " W LONG.

ANTENNA ID: NECenter3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: NECenter2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: NECenter1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

NE Corr. For Women - PERMITTED LIST - ()

SES-REG-20180910-10783 E E202088 Buford Satellite Systems. L.P.
Registration 09/07/2018 - 09/07/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Lincoln CF
LOCATION: 3216 West Van Dorn, Lancaster, Lincoln, NE
40 ° 47 ' 1.40 " N LAT. 96 ° 46 ' 0.03 " W LONG.

ANTENNA ID: Lincoln 1 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Lincoln CF - PERMITTED LIST - ()

SES-REG-20180910-10784 E E202086 Buford Satellite Systems. L.P.
Registration 09/07/2018 - 09/07/2033
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Northeast CC Annex
LOCATION: 188 Old Railroad Grade Rd., Carter, Roan Mountain, TN
36 ° 12 ' 40.52 " N LAT. 82 ° 6 ' 21.29 " W LONG.

ANTENNA ID: NEANNEX3 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: NEANNEX2 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: NEANNEX1 3.7 meters Prodelin Unk
3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Northeast CC Annex - PERMITTED LIST - ()

SES-REG-20180910-10785 E E202085 Buford Satellite Systems. L.P.
Registration 09/07/2018 - 09/07/2033
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Woodland
LOCATION: 9036 East M -36, Washtenaw, Whitmore Lake, MI
42 ° 26 ' 22.10 " N LAT. 83 ° 46 ' 1.40 " W LONG.

ANTENNA ID:	Woodland 3	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	Woodland 2	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	Woodland 1	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	

Points of Communication:

Woodland - PERMITTED LIST - ()

SES-REG-20180910-10788	E E202081	Buford Satellite Systems. L.P.	09/07/2018 - 09/07/2033
Registration			Date Effective: 08/04/2020
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Saginaw CF
 LOCATION: 9625 Peirce Road, Saginaw, Freeland, MI
 43 ° 30 ' 22.20 " N LAT. 84 ° 6 ' 18.80 " W LONG.

ANTENNA ID:	Saginaw4	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	Saginaw3	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	Saginaw2	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	Saginaw1	3.7 meters	Prodelin	Unk
	3700.0000 - 4200.0000 MHz		36M0G7W	

Points of Communication:

Saginaw CF - PERMITTED LIST - ()

SES-REG-20180910-10794	E E202075	Buford Satellite Systems. L.P.	09/07/2018 - 09/07/2033
Registration			Date Effective: 08/04/2020
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Macomb Correctional
LOCATION: 34626 26 Mile Road, Macomb, New Haven, MI
42 ° 43 ' 2.57 " N LAT. 82 ° 45 ' 4.40 " W LONG.

ANTENNA ID: Macomb3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Macomb2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Macomb1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Macomb Correctional - PERMITTED LIST - ()

SES-REG-20180910-10800 E E202047 Buford Satellite Systems. L.P.
Registration 09/07/2018 - 09/07/2033
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Chippewa CF
LOCATION: 4269 W M-80, Chippewa, Kincheloe, MI
46 ° 15 ' 28.30 " N LAT. 84 ° 27 ' 8.30 " W LONG.

ANTENNA ID: Chippewa 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Chippewa 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Chippewa 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Chippewa CF - PERMITTED LIST - ()

SES-REG-20180910-10801 E E202046 Buford Satellite Systems. L.P.
Registration 09/07/2018 - 09/07/2033
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Carson City CF
LOCATION: 10522 Boyer Road, Montcalm, Carson City, MI
43 ° 9 ' 4.32 " N LAT. 84 ° 52 ' 1.47 " W LONG.

ANTENNA ID: Carson 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Carson 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Carson 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Carson City CF - PERMITTED LIST - ()

SES-REG-20180910-10803 E E202044 Buford Satellite Systems. L.P.
Registration 09/07/2018 - 09/07/2033
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Alger Correctional
LOCATION: N6141 Industrial Park Dr., Alger, Munising, MI
46 ° 22 ' 3.73 " N LAT. 86 ° 38 ' 2.09 " W LONG.

ANTENNA ID: Alger 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Alger 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Alger 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Alger Correctional - PERMITTED LIST - ()

SES-REG-20180910-10809 E E202036 Buford Satellite Systems. L.P.
Registration 09/07/2018 - 09/07/2033
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Larned Correctional
LOCATION: 1318 KS-264, Pawnee, Larned, KS
38 ° 10 ' 32.50 " N LAT. 99 ° 8 ' 58.20 " W LONG.

ANTENNA ID: Larned 3 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Larned 2 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: Larned 1 3.7 meters Prodelin Unk

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Larned Correctional - PERMITTED LIST - ()

SES-REG-20181016-06382 E E201033 WOCO
Registration 10/16/2018 - 10/16/2033
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: WOCO
LOCATION: 3829 Highway 22, Oconto, Oconto, WI
44 ° 53 ' 30.22 " N LAT. 87 ° 57 ' 19.54 " W LONG.

ANTENNA ID: 1 2.4 meters DH Satellite DH 2,4M

3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Modulation for Audio and Video Services

Points of Communication:

WOCO - PERMITTED LIST - ()

SES-REG-20181018-06820 E E201438 Media Vista Group, LLC
Registration 10/18/2018 - 10/18/2033
Surrender of Authorization Date Effective: 07/15/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Park Plaza
LOCATION: 4301 Gulf Shore Blvd, Collier, Naples, FL
26 ° 11 ' 57.80 " N LAT. 81 ° 48 ' 55.40 " W LONG.

ANTENNA ID: 4 3 meters DH 30DH

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

Park Plaza - PERMITTED LIST - ()

SES-REG-20190611-01115 E E190680 University of Maine System
Registration 06/11/2019 - 06/11/2034
Grant of Authority Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: WMPG-FM
LOCATION: Luther Bonney Hall 85 Bedford Street, Cumberland, Portland, ME
43 ° 39 ' 42.90 " N LAT. 70 ° 16 ' 33.90 " W LONG.

ANTENNA ID: 3.7 M 3.7 meters Prodelin 3.7 M

3700.0000 - 4200.0000 MHz 30K0F1D 0.00 dBW Digital Audio Carrier

Points of Communication:

WMPG-FM - PERMITTED LIST - ()

SES-RWL-20191122-01541 E E940532 Intelsat License LLC, as debtor-in-possession
Renewal 12/23/2019 - 12/23/2034
Grant of Authority Date Effective: 08/03/2020

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service, Fixed Satellite Service, International Fixed Satellite Service

SITE ID: Ellenwood
LOCATION: 2857 Fork Creek Church Road, DEKALB, ELLENWOOD, GA
33 ° 39 ' 50.40 " N LAT. 84 ° 16 ' 18.70 " W LONG.

ANTENNA ID: 7.2M 7.2 meters GENERAL DYNAMICS 7.2KPK

14497.6000 - 14498.4000 MHz	670KF1D	86.00 dBW	FM-COMMAND & / or Ranging tones
14000.0000 - 14500.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
14000.0000 - 14500.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
14000.0000 - 14500.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
14000.0000 - 14500.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
14000.0000 - 14500.0000 MHz	950KF3D	80.00 dBW	TT&C CARRIER
14000.0000 - 14500.0000 MHz	1M00G7F	68.40 dBW	DIGITAL VIDEO
14000.0000 - 14500.0000 MHz	36M0G7F	83.90 dBW	DIGITAL VIDEO
14000.0000 - 14500.0000 MHz	36M0G7W	83.90 dBW	DIGITAL VIDEO, AUDIO AND DATA
14000.0000 - 14500.0000 MHz	56K0G7W	55.90 dBW	DIGITAL VIDEO, AUDIO AND DATA
14000.0000 - 14500.0000 MHz	950KF3D	80.00 dBW	TT&C CARRIER
14000.0000 - 14500.0000 MHz	1M00G7F	68.40 dBW	DIGITAL VIDEO
14000.0000 - 14500.0000 MHz	36M0G7F	83.90 dBW	DIGITAL VIDEO
14000.0000 - 14500.0000 MHz	36M0G7W	83.90 dBW	DIGITAL VIDEO, AUDIO AND DATA
14000.0000 - 14500.0000 MHz	56K0G7W	55.90 dBW	DIGITAL VIDEO, AUDIO AND DATA
14000.0000 - 14250.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
14000.0000 - 14250.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
14000.0000 - 14250.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
14000.0000 - 14250.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
13998.6000 - 13999.4000 MHz	670KF1D	83.50 dBW	FM-COMMAND & / or Ranging tones

13997.5000 - 13998.5000 MHz	890KF2D	83.50 dBW	FM-COMMAND & / or Ranging tones
13995.5000 - 13995.5000 MHz	750KF2D	78.40 dBW	TT&C CARRIER
13954.0000 - 13992.0000 MHz	36M0G7W	75.00 dBW	Digital TV - MCPC
13954.0000 - 13992.0000 MHz	18M0G7W	72.00 dBW	Digital TV - MCPC
13814.0000 - 13954.0000 MHz	36M0F9W	75.00 dBW	TELEVISION/FM
13814.0000 - 13954.0000 MHz	18M0F9W	72.00 dBW	TELEVISION/FM
13814.0000 - 13954.0000 MHz	36M0G7W	75.00 dBW	DIGITAL TV-SCPC
13814.0000 - 13954.0000 MHz	18M0G7W	72.00 dBW	DIGITAL TV-SCPC
13814.0000 - 13954.0000 MHz	6M85G7W	69.00 dBW	DIGITAL TV-SCPC
13814.0000 - 13954.0000 MHz	2M90G7W	70.40 dBW	DIGITAL TV-SCPC
13814.0000 - 13954.0000 MHz	2M20G2W	69.20 dBW	SCPC DATA
13814.0000 - 13954.0000 MHz	375KG2W	68.00 dBW	SCPC DATA
13778.0000 - 14000.0000 MHz	950KF3D	80.00 dBW	TT&C CARRIER
13778.0000 - 14000.0000 MHz	950KF3D	80.00 dBW	TT&C CARRIER
13772.0000 - 13778.0000 MHz	6M00G7W	70.00 dBW	DIGITAL VIDEO, AUDIO AND DATA
13772.0000 - 13778.0000 MHz	6M00G7W	70.00 dBW	DIGITAL VIDEO, AUDIO AND DATA
13756.0000 - 13814.0000 MHz	36M0G7W	75.00 dBW	Digital TV - MCPC
13756.0000 - 13814.0000 MHz	18M0G7W	72.00 dBW	Digital TV - MCPC
13750.0000 - 13772.0000 MHz	950KF3D	80.00 dBW	TT&C CARRIER
13750.0000 - 13772.0000 MHz	950KF3D	80.00 dBW	TT&C CARRIER
13246.5000 - 13246.5000 MHz	750KF2D	78.40 dBW	TT&C CARRIER
12750.0000 - 13250.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
12750.0000 - 13250.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
12750.0000 - 13250.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC

12750.0000 - 13250.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
12750.0000 - 13250.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
11700.0000 - 12200.0000 MHz	30M0F8F		TELEVISION/FM
11700.0000 - 12200.0000 MHz	16M0F8F		TELEVISION/FM
11700.0000 - 12200.0000 MHz	2M70G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	6M40G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	8M00G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	24M0G7F		Digital TV - MCPC
11700.0000 - 12200.0000 MHz	1M36G2W		SCPC DATA
11450.9000 - 11451.1000 MHz	80K0P7D		PM/PSK - 2 - Telemetry
11450.0000 - 12200.0000 MHz	300KF3D		TT&C CARRIER
11450.0000 - 12200.0000 MHz	1M00G7F		DIGITAL VIDEO
11450.0000 - 12200.0000 MHz	36M0G7F		DIGITAL VIDEO
11450.0000 - 12200.0000 MHz	36M0G7W		DIGITAL VIDEO, AUDIO AND DATA
11450.0000 - 12200.0000 MHz	56K0G7W		DIGITAL VIDEO, AUDIO AND DATA
11450.0000 - 12200.0000 MHz	1M00G7F		DIGITAL VIDEO
11450.0000 - 12200.0000 MHz	36M0G7F		DIGITAL VIDEO
11450.0000 - 12200.0000 MHz	36M0G7W		DIGITAL VIDEO, AUDIO AND DATA
11450.0000 - 12200.0000 MHz	56K0G7W		DIGITAL VIDEO, AUDIO AND DATA
11450.0000 - 12200.0000 MHz	300KF3D		TT&C CARRIER
11450.0000 - 11700.0000 MHz	30M0F8F		TELEVISION/FM
11450.0000 - 11700.0000 MHz	16M0F8F		TELEVISION/FM
11450.0000 - 11700.0000 MHz	2M70G7F		DIGITAL TV - SCPC
11450.0000 - 11700.0000 MHz	6M40G7F		DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	8M00G7F		DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	24M0G7F		Digital TV - MCPC

11450.0000 - 11700.0000 MHz	1M36G2W	SCPC DATA
11449.0000 - 11449.0000 MHz	300KF2D	TT&C CARRIER
11448.0000 - 11448.0000 MHz	300KF2D	TT&C CARRIER
11446.9000 - 11449.1000 MHz	180KP7D	PM/PSK - 2 - Telemetry
11200.0000 - 11450.0000 MHz	30M0F8F	TELEVISION/FM
11200.0000 - 11450.0000 MHz	16M0F8F	TELEVISION/FM
11200.0000 - 11450.0000 MHz	2M70G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	6M40G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	8M00G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	24M0G7F	Digital TV - MCPC
11200.0000 - 11450.0000 MHz	1M36G2W	SCPC DATA
10950.0000 - 11200.0000 MHz	18M0F9W	Analog TV/FM
10950.0000 - 11200.0000 MHz	18M0G7W	Digital TV - SCPC
10950.0000 - 11200.0000 MHz	6M85G7W	Digital TV - SCPC
10950.0000 - 11200.0000 MHz	2M90G7W	Digital TV - MCPC
10950.0000 - 11200.0000 MHz	2M20G7W	Digital TV - SCPC
10950.0000 - 11200.0000 MHz	375KG7W	SCPC DATA
10950.0000 - 11200.0000 MHz	36M0F9W	Analog TV/FM
10950.0000 - 11200.0000 MHz	36M0G7W	Digital TV - SCPC
10950.0000 - 11200.0000 MHz	300KF3D	TT&C CARRIER
10950.0000 - 11200.0000 MHz	1M00G7F	DIGITAL VIDEO
10950.0000 - 11200.0000 MHz	36M0G7F	DIGITAL VIDEO
10950.0000 - 11200.0000 MHz	36M0G7W	DIGITAL VIDEO, AUDIO AND DATA
10950.0000 - 11200.0000 MHz	56K0G7W	DIGITAL VIDEO, AUDIO AND DATA
10950.0000 - 11200.0000 MHz	300KF3D	TT&C CARRIER
10950.0000 - 11200.0000 MHz	1M00G7F	DIGITAL VIDEO

10950.0000 - 11200.0000 MHz	36M0G7F		DIGITAL VIDEO
10950.0000 - 11200.0000 MHz	36M0G7W		DIGITAL VIDEO, AUDIO AND DATA
10950.0000 - 11200.0000 MHz	56K0G7W		DIGITAL VIDEO, AUDIO AND DATA
10700.0000 - 10950.0000 MHz	30M0F8F		TELEVISION/FM
10700.0000 - 10950.0000 MHz	16M0F8F		TELEVISION/FM
10700.0000 - 10950.0000 MHz	2M70G7F		DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	6M40G7F		DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	8M00G7F		DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	24M0G7F		Digital TV - MCPC
10700.0000 - 10950.0000 MHz	1M36G2W		SCPC DATA
ANTENNA ID: 11.1M/K3	11.1 meters	VERTEX	11 KPK
14497.6000 - 14498.4000 MHz	670KF1D	86.00 dBW	FM-COMMAND & / or Ranging tones
14000.0000 - 14500.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
14000.0000 - 14500.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
14000.0000 - 14500.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
14000.0000 - 14500.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
14000.0000 - 14250.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
14000.0000 - 14250.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
14000.0000 - 14250.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
14000.0000 - 14250.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA

13998.6000 - 13999.4000 MHz	670KF1D	83.50 dBW	FM-COMMAND & / or Ranging tones
13997.5000 - 13998.5000 MHz	890KF2D	83.50 dBW	FM-COMMAND & / or Ranging tones
13954.0000 - 13992.0000 MHz	36M0G7W	75.00 dBW	Digital TV - MCPC
13954.0000 - 13992.0000 MHz	18M0G7W	72.00 dBW	Digital TV - MCPC
13814.0000 - 13954.0000 MHz	36M0F9W	75.00 dBW	ANALOG TV
13814.0000 - 13954.0000 MHz	18M0F9W	72.00 dBW	ANALOG TV
13814.0000 - 13954.0000 MHz	36M0G7W	75.00 dBW	Digital TV - SCPC
13814.0000 - 13954.0000 MHz	18M0G7W	72.00 dBW	Digital TV - SCPC
13814.0000 - 13954.0000 MHz	6M85G7W	69.00 dBW	Digital TV - SCPC
13814.0000 - 13954.0000 MHz	2M90G7W	70.40 dBW	Digital TV - MCPC
13814.0000 - 13954.0000 MHz	2M20G7W	69.20 dBW	Digital TV - SCPC
13814.0000 - 13954.0000 MHz	375KG7W	68.00 dBW	Digital TV - SCPC
13756.0000 - 13814.0000 MHz	36M0G7W	75.00 dBW	Digital TV - MCPC
13756.0000 - 13814.0000 MHz	18M0G7W	72.00 dBW	Digital TV - MCPC
12750.0000 - 13250.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
12750.0000 - 13250.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
12750.0000 - 13250.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
12750.0000 - 13250.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
11700.0000 - 12200.0000 MHz	30M0F8F		TELEVISION/FM
11700.0000 - 12200.0000 MHz	16M0F8F		TELEVISION/FM
11700.0000 - 12200.0000 MHz	2M70G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	6M40G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	8M00G7F		DIGITAL TV-SCPC

11700.0000 - 12200.0000 MHz	24M0G7F	Digital TV - MCPC
11700.0000 - 12200.0000 MHz	1M36G2W	SCPC DATA
11450.9000 - 11451.1000 MHz	80K0P7D	PM/PSK - 2 - Telemetry
11450.0000 - 11700.0000 MHz	30M0F8F	TELEVISION/FM
11450.0000 - 11700.0000 MHz	16M0F8F	TELEVISION/FM
11450.0000 - 11700.0000 MHz	2M70G7F	DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	6M40G7F	DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	8M00G7F	DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	24M0G7F	Digital TV - MCPC
11450.0000 - 11700.0000 MHz	1M36G2W	SCPC DATA
11446.9000 - 11449.1000 MHz	180KP7D	PM/PSK - 2 - Telemetry
11200.0000 - 11450.0000 MHz	30M0F8F	TELEVISION/FM
11200.0000 - 11450.0000 MHz	16M0F8F	TELEVISION/FM
11200.0000 - 11450.0000 MHz	2M70G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	6M40G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	8M00G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	24M0G7F	Digital TV - MCPC
11200.0000 - 11450.0000 MHz	1M36G2W	SCPC DATA
10700.0000 - 10950.0000 MHz	30M0F8F	TELEVISION/FM
10700.0000 - 10950.0000 MHz	16M0F8F	TELEVISION/FM
10700.0000 - 10950.0000 MHz	2M70G7F	DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	6M40G7F	DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	8M00G7F	DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	24M0G7F	Digital TV - MCPC
10700.0000 - 10950.0000 MHz	1M36G2W	SCPC DATA

Points of Communication:

Ellenwood - INTELSAT 11 (S2237) - (43.0 W.L.)

Ellenwood - INTELSAT 1R (S2368) - (157.1 E.L.)

Ellenwood - PERMITTED LIST - ()

SES-RWL-20191218-01734 E KA450 Intelsat License LLC

Renewal

01/26/2020 - 01/26/2035

Grant of Authority

Date Effective: 08/04/2020

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 961 ANSELMO COURT, NAPA, NAPA, CA

38 ° 14 ' 42.70 " N LAT.

122 ° 16 ' 48.90 " W LONG.

ANTENNA ID:	7-I/9M	9 meters	VERTEX	9 KPK	
	14497.6000 - 14498.4000 MHz		670KF1D	87.40 dBW	COMMAND Wide-band FM via PAS-9
	14000.0000 - 14500.0000 MHz		36M0F8F	83.90 dBW	ANALOG TV/FM
	14000.0000 - 14500.0000 MHz		30M0F8F	83.10 dBW	ANALOG TV/FM
	14000.0000 - 14500.0000 MHz		27M0F8F	82.70 dBW	ANALOG TV/FM
	14000.0000 - 14500.0000 MHz		24M0F8F	82.20 dBW	ANALOG TV/FM
	14000.0000 - 14500.0000 MHz		54M0G7F	85.70 dBW	DIGITAL Compressed TV - MCPC
	14000.0000 - 14500.0000 MHz		24M0G7F	82.20 dBW	DIGITAL Compressed TV - MCPC
	14000.0000 - 14500.0000 MHz		9M80G7F	78.30 dBW	DIGITAL Compressed TV - SCPC
	14000.0000 - 14500.0000 MHz		8M00G7F	77.40 dBW	DIGITAL Compressed TV - SCPC
	14000.0000 - 14500.0000 MHz		6M50G7F	76.50 dBW	DIGITAL Compressed TV - SCPC
	14000.0000 - 14500.0000 MHz		2M70G7F	72.70 dBW	DIGITAL Compressed TV - SCPC
	14000.0000 - 14500.0000 MHz		1M36G7W	63.40 dBW	DATA
	14000.0000 - 14500.0000 MHz		32K0G7W	55.40 dBW	DIGITAL VIDEO, AUDIO AND DATA
	14000.0000 - 14500.0000 MHz		36M0G7W	74.00 dBW	DIGITAL VIDEO, AUDIO AND DATA
	13998.6000 - 13999.4000 MHz		670KF1D	84.00 dBW	COMMAND Wide-band FM via PAS-9
	12750.0000 - 13250.0000 MHz		36M0F8F	81.00 dBW	ANALOG TV/FM via PAS-9
	12750.0000 - 13250.0000 MHz		18M0F8F	78.00 dBW	ANALOG TV/FM via PAS-9

12750.0000 - 13250.0000 MHz	36M0G7F	81.00 dBW	DIGITAL Compressed TV - MCPC via PAS-9
12750.0000 - 13250.0000 MHz	6M40G7F	68.50 dBW	DIGITAL Compressed TV - SCPC via PAS-9
12750.0000 - 13250.0000 MHz	2M78G7F	65.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
12750.0000 - 13250.0000 MHz	1M64G7W	62.00 dBW	DATA via PAS-9
12750.0000 - 13250.0000 MHz	655KG7W	60.00 dBW	DATA via PAS-9
12750.0000 - 13250.0000 MHz	82K0G7W	51.00 dBW	DATA via PAS-9
11700.0000 - 12200.0000 MHz	36M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	30M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	27M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	24M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	54M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC
11700.0000 - 12200.0000 MHz	24M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC
11700.0000 - 12200.0000 MHz	9M80G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	8M00G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	6M50G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	2M70G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	1M36G7W	0.00 dBW	DATA
11454.0000 - 11454.0000 MHz	4K00N0N		UPC Beacon via PAS-9
11451.9000 - 11452.1000 MHz	80K0P7D		Telemetry - PM/PSK via PAS-9
11450.9000 - 11451.1000 MHz	80K0P7D		Telemetry - PM/PSK via PAS-9
11450.0000 - 11700.0000 MHz	32K0G7W		DIGITAL VIDEO, AUDIO AND DATA
11450.0000 - 11700.0000 MHz	36M0G7W		DIGITAL VIDEO, AUDIO AND DATA
11200.0000 - 11450.0000 MHz	36M0F8F	0.00 dBW	ANALOG TV/FM via PAS-9
11200.0000 - 11450.0000 MHz	18M0F8F	0.00 dBW	ANALOG TV/FM via PAS-9
11200.0000 - 11450.0000 MHz	36M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC via PAS-9

11200.0000 - 11450.0000 MHz	6M40G7F	0.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
11200.0000 - 11450.0000 MHz	2M78G7F	0.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
11200.0000 - 11450.0000 MHz	1M64G7W	0.00 dBW	DATA via PAS-9
11200.0000 - 11450.0000 MHz	655KG7W	0.00 dBW	DATA via PAS-9
11200.0000 - 11450.0000 MHz	82K0G7W	0.00 dBW	DATA via PAS-9
10950.0000 - 11200.0000 MHz	32K0G7W		DIGITAL VIDEO, AUDIO AND DATA
10950.0000 - 11200.0000 MHz	36M0G7W		DIGITAL VIDEO, AUDIO AND DATA
10700.0000 - 14500.0000 MHz	18M0F8F	0.00 dBW	ANALOG TV/FM via PAS-9
10700.0000 - 14500.0000 MHz	36M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC via PAS-9
10700.0000 - 14500.0000 MHz	6M40G7F	0.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
10700.0000 - 14500.0000 MHz	2M78G7F	0.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
10700.0000 - 14500.0000 MHz	1M64G7W	0.00 dBW	DATA via PAS-9
10700.0000 - 14500.0000 MHz	655KG7W	0.00 dBW	DATA via PAS-9
10700.0000 - 14500.0000 MHz	82K0G7W	0.00 dBW	DATA via PAS-9
10700.0000 - 10950.0000 MHz	36M0F8F		ANALOG TV/FM via PAS-9
ANTENNA ID: 3-I/9M	9 meters	VERTEX	9 KPK
14000.0000 - 14500.0000 MHz	36M0F8F	83.90 dBW	ANALOG TV/FM
14000.0000 - 14500.0000 MHz	30M0F8F	83.10 dBW	ANALOG TV/FM
14000.0000 - 14500.0000 MHz	27M0F8F	82.70 dBW	ANALOG TV/FM
14000.0000 - 14500.0000 MHz	24M0F8F	82.20 dBW	ANALOG TV/FM
14000.0000 - 14500.0000 MHz	54M0G7F	85.70 dBW	DIGITAL Compressed TV - MCPC
14000.0000 - 14500.0000 MHz	24M0G7F	82.20 dBW	DIGITAL Compressed TV - MCPC
14000.0000 - 14500.0000 MHz	9M80G7F	78.30 dBW	DIGITAL Compressed TV - SCPC
14000.0000 - 14500.0000 MHz	8M00G7F	77.40 dBW	DIGITAL Compressed TV - SCPC

14000.0000 - 14500.0000 MHz	6M50G7F	76.50 dBW	DIGITAL Compressed TV - SCPC
14000.0000 - 14500.0000 MHz	2M70G7F	72.70 dBW	DIGITAL Compressed TV - SCPC
14000.0000 - 14500.0000 MHz	1M36G7W	63.40 dBW	DATA
11700.0000 - 12200.0000 MHz	36M0F8F		ANALOG TV/FM
11700.0000 - 12200.0000 MHz	30M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	27M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	24M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	54M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC
11700.0000 - 12200.0000 MHz	24M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC
11700.0000 - 12200.0000 MHz	9M80G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	8M00G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	6M50G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	2M70G7F		DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	1M36G7W	0.00 dBW	DATA

Points of Communication:

- 1 - HORIZONS-3 (S2947) - (169 E.L.)
- 1 - INTELSAT 19 (S2850) - (166.0 E.L.)
- 1 - INTELSAT 21 (S2863) - (58.0 W.L.)
- 1 - PERMITTED LIST - ()

SES-RWL-20200219-00168 E E050033 Viasat, Inc.

Renewal

04/26/2020 - 04/26/2035

Grant of Authority

Date Effective: 08/03/2020

Class of Station: Other

Nature of Service: Fixed Satellite Service

SITE ID: WB1000-C

LOCATION: (500,000 0.7m antennas), CONUS
0 ° 0 ' 0.00 " N LAT.

0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: WB1000C2 0.7 meters Raven Manufacturing WB1000-002

29500.0000 - 30000.0000 MHz	200KG7W	46.30 dBW	160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	400KG7W	46.30 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	46.30 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	1M60G7W	41.00 dBW	1280 KSPS QPSK, Digital Carrier (normal clear sky conditions)
29500.0000 - 30000.0000 MHz	1M60G7W	46.30 dBW	1280 KSPS QPSK, Digital Carrier
29500.0000 - 30000.0000 MHz	3M20G7W	46.30 dBW	2560 KSPS QPSK, Digital Carrier
29500.0000 - 30000.0000 MHz	200KG7W	46.30 dBW	160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	400KG7W	46.30 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	46.30 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
19700.0000 - 20200.0000 MHz	18M0G7W	0.00 dBW	15 MSPS 8PSK Digital Carrier
19700.0000 - 20200.0000 MHz	27M0G7W	0.00 dBW	22.5 MSPS 8PSK, Digital Carrier
ANTENNA ID: WB1000C3	0.7 meters	Raven Manufacturing	WB1000-003
29500.0000 - 30000.0000 MHz	200KG7W	47.00 dBW	160 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	47.00 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	1M60G7W	41.00 dBW	1280 KSPS QPSK, Digital Carrier (normal clear sky conditions)
29500.0000 - 30000.0000 MHz	400KG7W	47.00 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	1M60G7W	47.00 dBW	1280 KSPS QPSK, Digital Carrier
29500.0000 - 30000.0000 MHz	3M20G7W	47.00 dBW	2560 KSPS QPSK, Digital Carrier
29500.0000 - 30000.0000 MHz	200KG7W	47.00 dBW	160 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	400KG7W	47.00 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	47.00 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)

19700.0000 - 20200.0000 MHz	27M0G7W	0.00 dBW	22.5 MSPS 8PSK, Digital Carrier
19700.0000 - 20200.0000 MHz	18M0G7W	0.00 dBW	15 MSPS QPSK, Digital Carrier
ANTENNA ID: WB1000TF2	0.7 meters	Raven Manufacturing	WB1000TF2
29500.0000 - 30000.0000 MHz	1M60G7W	41.00 dBW	1280 KSPS QPSK, Digital Carrier (normal clear sky conditions)
29500.0000 - 30000.0000 MHz	200KG7W	46.30 dBW	160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	400KG7W	46.30 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	46.30 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	1M60G7W	46.30 dBW	1280 KSPS QPSK Digital Carrier
29500.0000 - 30000.0000 MHz	3M20G7W	46.30 dBW	2560 KSPS QPSK, Digital Carrier
29500.0000 - 30000.0000 MHz	200KG7W	46.30 dBW	160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	400KG7W	46.30 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	46.30 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
19700.0000 - 20200.0000 MHz	18M0G7W		15 MSPS 8PSK Digital Carrier
19700.0000 - 20200.0000 MHz	27M0G7W		22.5 MSPS 8PSK, Digital Carrier
ANTENNA ID: WB1000TF3	0.7 meters	Raven Manufacturing	WB1000TF3
29500.0000 - 30000.0000 MHz	1M60G7W	41.00 dBW	1280 KSPS QPSK, Digital Carrier (normal clear sky conditions)
29500.0000 - 30000.0000 MHz	200KG7W	47.00 dBW	160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	400KG7W	47.00 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	47.00 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	1M60G7W	47.00 dBW	1280 KSPS QPSK Digital Carrier
29500.0000 - 30000.0000 MHz	3M20G7W	47.00 dBW	2560 KSPS QPSK, Digital Carrier
29500.0000 - 30000.0000 MHz	200KG7W	47.00 dBW	160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)

29500.0000 - 30000.0000 MHz	400KG7W	47.00 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	47.00 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
19700.0000 - 20200.0000 MHz	18M0G7W		15 MSPS 8PSK Digital Carrier
19700.0000 - 20200.0000 MHz	27M0G7W		22.5 MSPS 8PSK, Digital Carrier

SITE ID: WB1000-TF2
LOCATION: (1,000 0.7m antennas), CONUS

SITE ID: WB1000-C4
LOCATION: (100,000 .98 cm antennas), CONUS

ANTENNA ID: WB1000C4	0.98 meters	Raven Manufacturing	WB1098-003
29500.0000 - 30000.0000 MHz	1M60G7W	50.00 dBW	1280 KSPS QPSK Digital Carrier
29500.0000 - 30000.0000 MHz	3M20G7W	50.00 dBW	2560 KSPS QPSK Digital Carrier
29500.0000 - 30000.0000 MHz	200KG7W	50.00 dBW	160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	400KG7W	50.00 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	50.00 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
19700.0000 - 20200.0000 MHz	18M0G7W		15 MSPS 8PSK Carrier
19700.0000 - 20200.0000 MHz	27M0G7W		22.5 MSPS 8PSK Carrier

SITE ID: WB1000-TF4
LOCATION: (10,000 .98 cm antennas), CONUS

ANTENNA ID: WB1000TF4	0.98 meters	Raven Manufacturing	WB1098-003
29500.0000 - 30000.0000 MHz	1M60G7W	50.00 dBW	1280 KSPS QPSK Digital Carrier
29500.0000 - 30000.0000 MHz	3M20G7W	50.00 dBW	2560 KSPS QPSK Digital Carrier
29500.0000 - 30000.0000 MHz	200KG7W	50.00 dBW	160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	400KG7W	50.00 dBW	320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
29500.0000 - 30000.0000 MHz	800KG7W	50.00 dBW	640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
19700.0000 - 20200.0000 MHz	18M0G7W		15 MSPS 8 PSK Carrier

19700.0000 - 20200.0000 MHz	27M0G7W		22.5 MSPS 8 PSK Carrier
SITE ID: WB1000-TF3			
LOCATION: (10,000 .7cm antennas), CONUS			
SITE ID: WB1000-C2			
LOCATION: (200,000 .38 cm antennas) CONUS			
SITE ID: WB1000-C3			
LOCATION: (1,000,000 .7 cm antennas), CONUS			
SITE ID: WB1000-S2			
LOCATION: (1,000,000: 0.745 METER ANTENNAS), CONUS			
ANTENNA ID: WB1000S2	0.745 meters	VIASAT, INC.	RA40750
29500.0000 - 30000.0000 MHz	1M60G7W	47.00 dBW	1280 KBD QPSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	3M20G7W	47.00 dBW	2560 KBD QPSK DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	400KG7W	47.00 dBW	320 KBD QPSK, DIGITAL CARRIER (USED UNDER RAIN FADE CONDITIONS ONLY)
29500.0000 - 30000.0000 MHz	800KG7W	47.00 dBW	640 KBD QPSK, DIGITAL CARRIER (USED UNDER RAIN FADE CONDITIONS ONLY)
29500.0000 - 30000.0000 MHz	5M00G7W	48.80 dBW	5 MBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	800KG7W	48.80 dBW	800 KBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	1M60G7W	48.80 dBW	1.6 MBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M50G7W	48.80 dBW	2.5 MBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	3M20G7W	48.80 dBW	3.2 MBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	625KG7W	45.90 dBW	625 KBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	1M25G7W	48.80 dBW	1.25 MBD PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	52M1G7W		52 MBD PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	27M0G7W		22.5 MSPS 8 PSK Carrier
19700.0000 - 20200.0000 MHz	18M0G7W		15 MSPS 8 PSK Carrier
ANTENNA ID: WB1000S2B	0.745 meters	VIASAT, INC.	RA40750
29500.0000 - 30000.0000 MHz	5M00G7W	48.80 dBW	5 MBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	400KG7W	47.00 dBW	400 KBD PSK, DIGITAL CARRIER

29500.0000 - 30000.0000 MHz	1M60G7W	48.80 dBW	1.6 MBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M50G7W	48.80 dBW	2.5 MBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	3M20G7W	48.80 dBW	3.2 MBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	625KG7W	45.90 dBW	625 KBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	800KG7W	48.80 dBW	800 KBD PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	1M25G7W	48.80 dBW	1.25 MBD PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	52M1G7W		52 MBD PSK, DIGITAL CARRIER

Points of Communication:

- WB1000-C - AMC-15 (S2180) - (105.0 W.L.)
- WB1000-C - AMC-16 (S2181) - (85 W.L.)
- WB1000-C - ANIK-F2 (S2742) - (111.1 W.L.)
- WB1000-C - WILDBLUE 1(S2355) - (111.1 W.L.)
- WB1000-C2 - AMC-15 (S2180) - (105.0 W.L.)
- WB1000-C2 - AMC-16 (S2181) - (85 W.L.)
- WB1000-C2 - ANIK-F2 (S2742) - (111.1 W.L.)
- WB1000-C2 - WILDBLUE 1(S2355) - (111.1 W.L.)
- WB1000-C3 - AMC-15 (S2180) - (105.0 W.L.)
- WB1000-C3 - AMC-16 (S2181) - (85 W.L.)
- WB1000-C3 - ANIK-F2 (S2742) - (111.1 W.L.)
- WB1000-C3 - WILDBLUE 1(S2355) - (111.1 W.L.)
- WB1000-C4 - AMC-15 (S2180) - (105.0 W.L.)
- WB1000-C4 - AMC-16 (S2181) - (85 W.L.)
- WB1000-C4 - ANIK-F2 (S2742) - (111.1 W.L.)
- WB1000-C4 - WILDBLUE 1(S2355) - (111.1 W.L.)
- WB1000-S2 - AMC-15 (S2180) - (105.0 W.L.)
- WB1000-S2 - AMC-16 (S2181) - (85 W.L.)
- WB1000-S2 - ANIK-F2 (S2742) - (111.1 W.L.)
- WB1000-S2 - PERMITTED LIST - ()
- WB1000-S2 - WILDBLUE 1(S2355) - (111.1 W.L.)

WB1000-TF2 - AMC-15 (S2180) - (105.0 W.L.)
WB1000-TF2 - AMC-16 (S2181) - (85 W.L.)
WB1000-TF2 - ANIK-F2 (S2742) - (111.1 W.L.)
WB1000-TF2 - WILDBLUE 1(S2355) - (111.1 W.L.)
WB1000-TF3 - AMC-15 (S2180) - (105.0 W.L.)
WB1000-TF3 - AMC-16 (S2181) - (85 W.L.)
WB1000-TF3 - ANIK-F2 (S2742) - (111.1 W.L.)
WB1000-TF3 - WILDBLUE 1(S2355) - (111.1 W.L.)
WB1000-TF4 - AMC-15 (S2180) - (105.0 W.L.)
WB1000-TF4 - AMC-16 (S2181) - (85 W.L.)
WB1000-TF4 - ANIK-F2 (S2742) - (111.1 W.L.)
WB1000-TF4 - WILDBLUE 1(S2355) - (111.1 W.L.)

SES-STA-20200424-00450 E E201991 SpaceX Services, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 07/31/2020

Class of Station:

On July 31, 2020, SpaceX Services, Inc. was granted special temporary authority for 60 days, beginning July 31, 2020, to operate its fixed earth station in Slope County, ND and Manistique, MI, to provide Ka-band gateway services to deliver broadband data between the satellites of its NGSO system (Call Signs S2983/3018) and terrestrial Internet exchange points in the 27.5-29.1 GHz and 29.5-30.0 GHz (Earth-to-space), and 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20200504-00489 E E201993 SpaceX Services, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 07/31/2020

Class of Station:

On July 31, 2020, SpaceX Services, Inc. was granted special temporary authority for 60 days, beginning July 31, 2020, to operate its fixed earth station in Los Angeles, CA, Prudhoe Bay, AK and Cass County, ND to provide Ka-band gateway services to deliver broadband data between the satellites of its NGSO system (Call Signs S2983/3018) and terrestrial Internet exchange points in the 27.5-29.1 GHz and 29.5-30.0 GHz (Earth-to-space), and 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20200507-00504 E E201998 SpaceX Services, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 07/31/2020

Class of Station:

On July 31, 2020, SpaceX Services, Inc. was granted special temporary authority for 60 days, beginning July 31, 2020, to operate its fixed earth station in Sanderson, TX to provide Ka-band gateway services to deliver broadband data between the satellites of its NGSO system (Call Signs S2983/3018) and terrestrial Internet exchange points in the 27.5-29.1 GHz and 29.5-30.0 GHz (Earth-to-space), and 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES–STA–20200608–00599 E E202007 SpaceX Services, Inc.
Special Temporary Authority
Grant of Authority
Date Effective: 07/31/2020

Class of Station:

On July 31, 2020, SpaceX Services, Inc. was granted special temporary authority for 60 days, beginning July 31, 2020, to operate its fixed earth station in Springer, OK to provide Ka-band gateway services to deliver broadband data between the satellites of its NGSO system (Call Signs S2983/3018) and terrestrial Internet exchange points in the 27.5-29.1 GHz and 29.5-30.0 GHz (Earth-to-space), and 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES–STA–20200618–00661 E E202114 SpaceX Services, Inc.
Special Temporary Authority
Grant of Authority
Date Effective: 07/30/2020

Class of Station:

On July 30, 2020, SpaceX Services, Inc. was granted special temporary authority for 60 days, beginning July 30, 2020, to operate its fixed earth stations in Hitterdal, MN, Tionesta, CA, Butte, MT, Colburn, ID, Baxley, GA and Robertsdale, AZ to provide Ka-band gateway services to deliver broadband data between the satellites of its NGSO system (S2983/S3018) and terrestrial Internet exchange points in the 27.5-29.1 GHz and 29.5-30.0 GHz (Earth-to-space), and 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES–STA–20200619–00667 E E100047 Televiscentro of Puerto Rico, LLC
Special Temporary Authority
Grant of Authority
Date Effective: 07/29/2020

Class of Station:

On July 29, 2020, Televiscentro of Puerto Rico, LLC was granted special temporary authority for 60 days, beginning July 29, 2020, to operate its temporary-fixed earth station in San Juan, PR to communicate with the Galaxy 16 (S2687) satellite at the 99° W.L. orbital location in the 5925-6078.35 MHz and 6307-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands.

Points of Communication:

SES–STA–20200706–00716 E E000296 Intelsat License LLC, as debtor-in-possession
Special Temporary Authority
Grant of Authority
Date Effective: 07/30/2020

Class of Station:

On July 30, 2020, Intelsat License LLC, as debtor-in-possession was granted special temporary authority for 30 days, beginning July 31, 2020, to operate its fixed-satellite C-band earth station in Hagerstown, MD to provide launch and early orbit phase (LEOP) services for the for Galaxy 30 (S3016) satellite on the following center frequencies: 6421.75 MHz and 6424.25 MHz (Earth-to-space), and 4197.5 MHz and 4198.5 MHz (space-to-Earth). In-Orbit Testing (IOT) of Galaxy 30 (S3016) satellite will be performed at 84.55° E.L orbital location and its final orbital location at 125.0° W.L.

Points of Communication:

SES-STA-20200710-00742 E E202125 SpaceX Services, Inc.
Special Temporary Authority
Grant of Authority
Date Effective: 07/31/2020

Class of Station:

On July 31, 2020, SpaceX Services, Inc. was granted special temporary authority for 60 days, beginning July 31, 2020, to operate its fixed earth station in Vernon, UT to provide Ka-band gateway services to deliver broadband data between the satellites of its NGSO system (Call Signs S2983/3018) and terrestrial Internet exchange points in the 27.5-29.1 GHz and 29.5-30.0 GHz (Earth-to-space), and 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20200720-00782 E CBS Communications Services Inc.
Special Temporary Authority
Grant of Authority
Date Effective: 08/03/2020

Class of Station:

On August 3, 2020, CBS Communications Services Inc. (ViacomCBS) was granted special temporary authority for 30 days, beginning August 3, 2020, to briefly transmit low power test signals on C-band and Ku-band frequencies to conduct product qualification of ten (10) existing satellite earth antennas located at 300 New Highway, Hauppauge, New York. Such testing is required by Section 25.132 of the FCC Rules for applicants seeking to license and operate large, fixed satellite earth station antennas that have been assembled on site. This authorization is granted on an unprotected, non-interference basis and without prejudice to any determination that the Commission may make regarding pending or future applications.

Points of Communication:

SES-STA-20200721-00783 E E202127 SpaceX Services, Inc.
Special Temporary Authority
Grant of Authority
Date Effective: 07/31/2020

Class of Station:

On July 31, 2020, SpaceX Services, Inc. was granted special temporary authority for 60 days, beginning July 31, 2020, to operate its fixed earth station in Inman, KS to provide Ka-band gateway services to deliver broadband data between the satellites of its NGSO system (Call Signs S2983/3018) and terrestrial Internet exchange points in the 27.5-29.1 GHz and 29.5-30.0 GHz (Earth-to-space), and 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20200728-00814 E E202137 KWES Television, LLC
Special Temporary Authority
Grant of Authority
Date Effective: 08/03/2020

Class of Station:

On August 3, 2020, KWES Television Inc, was granted special temporary authority for 30 days, beginning August 3, 2020, to operate a 2.4-meter temporary-fixed earth station in El Paso, TX area with Permitted List satellites in the 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space to earth) frequency bands on a non-interference and non-protected basis. Operations are limited to community events related to the one-year anniversary of the mass shooting at the Walmart store in El Paso, TX as concerns regarding the rise in COVID-19 cases in the State of Texas continue.

Points of Communication:

CORRECTIONS

SES-MOD-20181016-06195 WF73 Spectrum Southeast, LLC

License term has been corrected to reflect an expiration date of March 28, 2034. Public Notice, Report No. SES-02281, released July 1, 2020, incorrecing listed March 28, 2019.

SES-REG-20181016-05845 E200535 DIRECTV Enterprises, LLC

"Correction" to add Antenna ID 102, update site coordinates and add new site coordinates.

SES-REG-20181016-05873 E200563 AT&T Sports Net Rocky Mountain, LLC

"Correction" to Registration by changing the Site ID from 1 to ATTSN Pittsburgh.

SES-REG-20181016-06457 E201100 AT&T Sports Net Rocky Mountain, LLC

"Correction" to Registration by changing the Site ID from 1 to ATTSN SW, and updating the site coordinates.

SES-REG-20181016-06461 E201104 AT&T Sports Net Rocky Mountain, LLC

"Correction" to Registration by updating the site coordinates for antenna ID RSNW 1 and add coordinates for antenna ID RSNW 2.

SES-REG-20181016-06482 E201125 DIRECTV Enterprises, LLC

"Correction" to Registration by updating and adding new site coordinates.

SES-REG-20181016-06485 E201128 DIRECTV Enterprises, LLC

"Correction" to Registration to update and add new site coordinates.

SES-REG-20181016-06487 E201130 DIRECTV Enterprises, LLC

"Correction" to update the site coordination.

SES-RWL-20170505-00521 KA444 AT&T Corp.

"Correction" to license by adding the zip code to side address.

SES-RWL-20190507-00571 WA33 AT&T Corp.

"Correction" to Registration by adding the zip code to side address.

INFORMATIVE

SES-MOD-20180711-02171 KG33 Spectrum Pacific West, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-MOD-20181016-03587 E6698 Spectrum Mid-America, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-MOD-20181016-06262 E080004 Spectrum Mid-America, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-MOD-20181016-06541 E4128 Spectrum Mid-America, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-MOD-20181017-06595 KR75 Spectrum Pacific West, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180625-01880 E181148 Spectrum Gulf Coast, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180625-01904 E181167 Spectrum Gulf Coast, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

INFORMATIVE

SES-REG-20180625-01905 E181168 Spectrum Gulf Coast, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180703-01955 E181210 Spectrum Sunshine State, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180703-01981 E181226 Spectrum NLP, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180703-01982 E181227 Charter Communications Operating, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180703-01983 E181228 Charter Communications Operating, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180703-01991 E181232 Spectrum NLP, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180703-01992 E181233 Spectrum NLP, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02238 E181390 Spectrum Southeast, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02239 E181391 Spectrum Pacific West, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02240 E181392 Spectrum Pacific West, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02242 E181394 Spectrum Mid-America, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02243 E181395 Spectrum Mid-America, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02244 E181396 Spectrum Pacific West, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02245 E181397 Spectrum Pacific West, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02246 E181398 Bresnan Communications, LLC (INACTIVE FRN - DO NOT USE)

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02247 E181399 Bresnan Communications, LLC (INACTIVE FRN - DO NOT USE)

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02248 E181400 Spectrum Southeast, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02251 E181403 Spectrum Sunshine State, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02256 E181406 Spectrum Pacific West, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02258 E181408 Spectrum Mid-America, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

SES-REG-20180717-02262 E181412 Spectrum Pacific West, LLC

Duplicate antennas and their related data have been removed from this current authorization, at the registrant's request.

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