



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-01969

Wednesday June 28, 2017

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-20170421-00453 E E020145 SDTV / San Diego Teleproductions
Application for Consent to Assignment
Grant of Authority Date Effective: 06/27/2017

Current Licensee: SDTV / San Diego Teleproductions
FROM: SDTV/ SAN DIEGO TELEPRODUCTIONS
TO: Miami Teleproduction Group, Inc.

No. of Station(s) listed: 1

SES-ASG-20170426-00467 E E010254 Strung From The Moon, LLC
Application for Consent to Assignment
Grant of Authority Date Effective: 06/27/2017

Current Licensee: Strung From The Moon, LLC
FROM: STRUNG FROM THE MOON, LLC
TO: Antenna Technology Communications, Inc.

No. of Station(s) listed: 2

SES-DBE-20170317-00314 E E170085 Federal Aviation Administration
Database Entry
Grant of Authority Date Effective: 06/27/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: Selawik, AK
66 ° 35 ' 59.50 " N LAT. 159 ° 59 ' 49.50 " W LONG.

ANTENNA ID: 1 4.5 meters Scientific Atlanta 8345

5925.0000 - 6425.0000 MHz 98K0G7D 51.86 dBW QPSK

5925.0000 - 6425.0000 MHz 305KG7D 51.86 dBW QPSK

3700.0000 - 4200.0000 MHz 98K0G7D QPSK

3700.0000 - 4200.0000 MHz 305KG7D QPSK

Points of Communication:

1 - PERMITTED LIST2 - ()

SES-LIC-20170315-00271 E E170083 Intelsat License LLC

Application for Authority

06/21/2017 - 06/21/2032

Grant of Authority

Date Effective: 06/21/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 17625 Technology Blvd, Washington, Hagerstown, MD

39 ° 35 ' 59.00 " N LAT.

77 ° 45 ' 30.60 " W LONG.

ANTENNA ID: K98 1.2 meters GD Satcom Technologies Series 1134

14000.0000 - 14500.0000 MHz 5M62G7W 51.50 dBW Digital Data

10950.0000 - 12750.0000 MHz 36M0G7W Digital Data

ANTENNA ID: K99 2.4 meters GD Satcom Technologies Series 1241

14000.0000 - 14500.0000 MHz 5M62G7W 51.50 dBW Digital Data

10950.0000 - 12750.0000 MHz 5M62G7W Digital Data

Points of Communication:

1 - INTELSAT 29e (S2913) - (50.0 W.L.)

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

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

1 - PERMITTED LIST 3 - ()

1 - SKY-B1(S2922) - (43.15 W.L.)

SES-LIC-20170414-00403 E E170093 EchoStar Broadcasting Holding Corporation

Application for Authority

06/27/2017 - 06/27/2032

Grant of Authority

Date Effective: 06/27/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 801 North Dish Drive, Maricopa, Gilbert, AZ
33 ° 22 ' 0.20 " N LAT.

111 ° 48 ' 52.90 " W LONG.

ANTENNA ID:	1	9 meters	Vertex	9KPC
6424.0000 - 6425.0000 MHz		750KG2D	74.77 dBW	Command and Ranging Carrier
6424.0000 - 6425.0000 MHz		1M00G2D	74.77 dBW	Command and Ranging Carrier
6424.0000 - 6425.0000 MHz		800KG2D	73.80 dBW	Command and Ranging Carrier
6420.0000 - 6421.0000 MHz		750KG2D	73.53 dBW	Command and Ranging Carrier
6420.0000 - 6421.0000 MHz		800KG2D	73.80 dBW	Command and Ranging Carrier
6420.0000 - 6421.0000 MHz		1M00G2D	74.77 dBW	Command and Ranging Carrier
6109.0000 - 6181.0000 MHz		1M00G7W	74.77 dBW	Data Carrier (Digital)
6109.0000 - 6181.0000 MHz		36M0G7W	77.30 dBW	Compressed Video (Digital)
6109.0000 - 6181.0000 MHz		750KG7W	73.53 dBW	Data Carrier (Digital)
6109.0000 - 6181.0000 MHz		36M0F8W	77.30 dBW	Analog Video
6040.0000 - 6077.0000 MHz		1M00G7W	74.77 dBW	Data Carrier (Digital)
6040.0000 - 6077.0000 MHz		36M0F8W	77.30 dBW	Analog Video
6040.0000 - 6077.0000 MHz		36M0G7W	77.30 dBW	Compressed Video (Digital)
6040.0000 - 6077.0000 MHz		750KG7W	73.53 dBW	Data Carrier (Digital)
6020.0000 - 6028.0000 MHz		1M00G7W	74.77 dBW	Data Carrier (Digital)
6020.0000 - 6028.0000 MHz		8M00G7W	77.30 dBW	Compressed Video (Digital)
6020.0000 - 6028.0000 MHz		750KG7W	73.53 dBW	Data Carrier (Digital)
5961.0000 - 5988.0000 MHz		1M00G7W	74.77 dBW	Data Carrier (Digital)
5961.0000 - 5988.0000 MHz		18M0F8W	74.30 dBW	Analog Video
5961.0000 - 5988.0000 MHz		27M0G7W	77.30 dBW	Compressed Video (Digital)
5961.0000 - 5988.0000 MHz		750KG7W	73.53 dBW	Data Carrier (Digital)
5925.0000 - 5929.0000 MHz		1M00G7W	74.77 dBW	Data Carrier (Digital)
5925.0000 - 5929.0000 MHz		800KG2D	73.80 dBW	Command and Ranging Carrier

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 530 Echostar Drive, Laramie, Cheyenne, WY

41 ° 7 ' 55.10 " N LAT.

104 ° 44 ' 13.20 " W LONG.

ANTENNA ID:	1	9 meters	Vertex	9KPK
	10950.0000 - 11200.0000 MHz		36M0G7W	Digital, data carrier, QPSK
	11450.0000 - 11700.0000 MHz		36M0G7W	Digital, data carrier, QPSK
	14000.0000 - 14004.0000 MHz		800KG2D	69.40 dBW Telecommand
	14000.0000 - 14500.0000 MHz		36M0F8F	87.40 dBW Analog video/audio
	14000.0000 - 14500.0000 MHz		24M0M1F	84.18 dBW Digital Compressed Video
	14000.0000 - 14500.0000 MHz		36M0G7W	85.94 dBW Digital, data carrier, QPSK
	14000.0000 - 14500.0000 MHz		750KF2D	69.10 dBW Digital, data carrier, QPSK
	11700.0000 - 12200.0000 MHz		36M0G7W	Digital, data carrier, QPSK

Points of Communication:

1 - ECHOSTAR 8 (MEX) - (76.9)

1 - ECHOSTAR/DISH - ()

1 - PERMITTED LIST2 - ()

1 - TELSTAR 11N (S2357) - (37.5 W.L.)

SES-LIC-20170418-00392 E E170092 Kratos RT Logic

Application for Authority

06/27/2017 - 06/27/2032

Grant of Authority

Date Effective: 06/27/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 9145 Ellis Road, Brevard, Melbourne, FL

28 ° 5 ' 54.20 " N LAT.

80 ° 41 ' 49.60 " W LONG.

ANTENNA ID:	1	1.8 meters	GD Satcom	1184
	10950.0000 - 11200.0000 MHz		N0N	CW IOT
	11450.0000 - 12200.0000 MHz		N0N	CW IOT

SITE ID: 1
 LOCATION: 76 Inverness Drive East Suite B, Arapahoe, Englewood, CO
 39 ° 34 ' 47.00 " N LAT. 104 ° 51 ' 35.00 " W LONG.

ANTENNA ID:	1	6.15 meters	VIASAT	8060	
	5925.0000 - 6425.0000 MHz		22M5G7W	68.50 dBW	QPSK
	3700.0000 - 4200.0000 MHz		22M5G7W	0.00 dBW	QPSK
ANTENNA ID:	2	3.7 meters	SUMAN	SM T3.7R	
	5925.0000 - 6425.0000 MHz		18M0G7W	65.80 dBW	DIGITAL VIDEO, AUDIO, DATA
	5925.0000 - 6425.0000 MHz		2M00G7W	65.80 dBW	DIGITAL VIDEO, AUDIO, DATA
	3700.0000 - 4200.0000 MHz		18M0G7W		DIGITAL VIDEO, AUDIO, DATA
	3700.0000 - 4200.0000 MHz		2M00G7W		DIGITAL VIDEO, AUDIO, DATA

Points of Communication:

1 - PERMITTED LIST2 - ()

SES-MOD-20170414-00531 E E060382 HNS License Sub, LLC
 Application for Modification 03/06/2007 - 03/06/2022
 Grant of Authority Date Effective: 06/21/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Castle Rock Station
 LOCATION: 5281 EAST GARTON ROAD (9.0M.) CKa11, DOUGLAS, CASTLE ROCK, CO
 39 ° 16 ' 34.34 " N LAT. 104 ° 48 ' 39.00 " W LONG.

ANTENNA ID:	CKa11	9 meters	VERTEX/GENERAL DYNAMICS	9M THX/Ka	
	29500.0000 - 29535.0000 MHz		N0N	56.30 dBW	Beacon
	29500.0000 - 29515.0000 MHz		600KF9D	56.30 dBW	Command and Ranging Carriers
	29500.0000 - 29515.0000 MHz		1M30F9D	56.30 dBW	Command and Ranging Carriers
	29500.0000 - 29515.0000 MHz		944KF9D	56.30 dBW	Command and Ranging Carriers
	19700.0000 - 19706.0000 MHz		106KG7D		Telemetry and Ranging

SITE ID: NLV-1
 LOCATION: ONE AEROJET WAY (1.8M.), CLARK, NORTH LAS VEGAS, NV
 36 ° 14 ' 11.70 " N LAT. 115 ° 7 ' 4.10 " W LONG.

ANTENNA ID:	NLV-1	1.8 meters	PRODELIN	1.8 METER KA-BAND
	29998.0000 - 29998.0000 MHz	NON	63.00 dBW	UNMODULATED CARRIER

SITE ID: NLV-2
LOCATION: 1500 FOREMASTER LANE (1.8M.) KSNV-SOUTHERN, CLARK, LAS VEGAS, NV
36 ° 11 ' 8.00 " N LAT. 115 ° 7 ' 38.00 " W LONG.

ANTENNA ID:	NLV-2	1.8 meters	PRODELIN	1.8 METER KA-BAND
	29998.0000 - 29998.0000 MHz	NON	63.00 dBW	UNMODULATED CARRIER

SITE ID: Castle Rock 2
LOCATION: 5281 EAST GARTON ROAD (9.2M.), DOUGLAS, CASTLE ROCK, CO
39 ° 16 ' 34.30 " N LAT. 104 ° 48 ' 29.60 " W LONG.

ANTENNA ID:	CR 2	9.2 meters	GDSATCOM TECHNOLOGIES	9.2 METER KA-BAND
	28351.0000 - 28353.0000 MHz	1M00F2D	69.70 dBW	FM CMD & RANGING
	20199.5000 - 20199.5000 MHz	NON		BEACON
	19700.5000 - 19702.5000 MHz	70K0G7W		TELEMETRY AND RANGING
	19700.5000 - 19702.5000 MHz	300KG7W		TELEMETRY AND RANGING
	19700.5000 - 19702.5000 MHz	200KG7W		TELEMETRY AND RANGING

SITE ID: BV-1
LOCATION: 394 N. EXPRESSWAY (1.8M.) KVEO-TV, CAMERON, BROWNSVILLE, TX
25 ° 55 ' 38.00 " N LAT. 97 ° 29 ' 25.00 " W LONG.

ANTENNA ID:	BEACON 1	1.8 meters	PRODELIN	1.8 METER KA-BAND
	29998.0000 - 29998.0000 MHz	NON	63.00 dBW	UNMODULATED CARRIER

Points of Communication:

- BV-1 - AMC-15 - (105 W.L.)
- BV-1 - AMC-16 - (85 W.L.)
- BV-1 - EchostarXVII(S2753) - (107.1 W.L.)
- BV-1 - EchostarXVII(S2753) - (107.1 W.L.)
- BV-1 - EchostarXVII(S2753) - (107.1 W.L.)
- BV-1 - GALAXY 28 (S2160) - (89.0 W.L.)
- Castle Rock 2 - AMC-15 - (105 W.L.)
- Castle Rock 2 - AMC-16 - (85 W.L.)

Castle Rock 2 - EchostarXVII(S2753) - (107.1 W.L.)

Castle Rock 2 - EchostarXVII(S2753) - (107.1 W.L.)

Castle Rock 2 - GALAXY 28 (S2160) - (89.0 W.L.)

Castle Rock Station - IA-8 - (89 W.L.)

Castle Rock Station - SPACEWAY 3 - (95 W.L.)

Castle Rock Station - SPACEWAY 3 - (99.95 W.L.)

NLV-1 - AMC-15 - (105 W.L.)

NLV-1 - AMC-16 - (85 W.L.)

NLV-1 - EchostarXVII(S2753) - (107.1 W.L.)

NLV-1 - EchostarXVII(S2753) - (107.1 W.L.)

NLV-1 - GALAXY 28 (S2160) - (89.0 W.L.)

NLV-2 - AMC-15 - (105 W.L.)

NLV-2 - AMC-16 - (85 W.L.)

NLV-2 - EchostarXVII(S2753) - (107.1 W.L.)

NLV-2 - EchostarXVII(S2753) - (107.1 W.L.)

NLV-2 - GALAXY 28 (S2160) - (89.0 W.L.)

SES-MOD-20170414-00532 E E000166 HNS License Sub, LLC
 Application for Modification 09/13/2010 - 09/13/2025
 Grant of Authority Date Effective: 06/21/2017

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

SITE ID: TR 1.2M.
 LOCATION: VSAT 1.2M (100,000 UNITS), CONUS, AK, HI, VI PR

ANTENNA ID:	TR 1.2M.	1.2 meters	PRODELIN CORP.	HNS-AN-120P-KU
	14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

11700.0000 - 12200.0000 MHz	24M0G7D	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D	PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TR 1.8M.
LOCATION: VSAT 1.8M (50,000 UNITS), CONUS, AK, HI, VI PR

ANTENNA ID:	TR 1.8M.	1.8 meters	PRODELIN CORP.	HNS-AN-180P-KU
14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER	
14000.0000 - 14500.0000 MHz	1M60G7D	49.70 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER	
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER	
14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER	
11700.0000 - 12200.0000 MHz	24M0G7D	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER		
11700.0000 - 12200.0000 MHz	36M0G7D	PSK, DATA, 30 MSPS, OUTROUTE CARRIER		
11700.0000 - 12200.0000 MHz	6M00G7D	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER		
11700.0000 - 12200.0000 MHz	12M0G7D	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER		
11700.0000 - 12200.0000 MHz	400KG7D	PSK, DATA, 256 KSPS, OUTROUTE CARRIER		

SITE ID: HUB-B
LOCATION: 7.6M (HUB) 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 45.50 " N LAT. 77 ° 14 ' 41.20 " W LONG.

ANTENNA ID:	HubB7.6	7.6 meters	ANDREW CORP.	ES76K-1
	14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	PSK, DATA, 20 MSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	53.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	200KG7D		PSK, DIGITAL, 128 KSPS, INROUTE CARRIER

SITE ID: TR 1.0M.

LOCATION: VSAT 1.0M (135 cm x 58 cm) (100,000 UNITS), CONUS, AK,HI,PR,VI

ANTENNA ID:	TR 1.0M.	1 meters	PRODELIN CORP.	1102 (135 cm x 58 cm)
	14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	PSK, DIGITAL 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	800KG7D	44.00 dBW	OQPSK, DIGITAL 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	44.00 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	12M0G7D			OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D			PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TF TR 98CM
LOCATION: VSAT 0.98M temporary-fixed (54,000 UNITS), CONUS, AK, HI, PR, VI

ANTENNA ID:	TF TR 98CM	0.98 meters	PRODELIN	HNS-AN-098P-KU
14000.0000 - 14500.0000 MHz	200KG7D		44.30 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D		44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D		44.30 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D		44.30 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D		44.30 dBW	DIGITAL, PSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D		44.30 dBW	DIGITAL, PSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D		44.30 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

ANTENNA ID: TFTR 98CM 0.98 meters RAVEN MANUFACTURING LIMITED HNS-AN-98R-KU

SITE ID: TF TR 74CM
LOCATION: VSAT 0.74M (98 x 56 cm) temporary-fixed (60,200 UNITS), CONUS, AK, HI, PR, VI

ANTENNA ID:	TF TR 74CM	0.74 meters	PRODELIN	HNS-AN-074P-KU
14000.0000 - 14500.0000 MHz	200KG7D		42.00 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7W		42.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D		42.00 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D		42.00 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER

11700.0000 - 12200.0000 MHz	36M0G7D	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D	OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D	OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D	PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: HUB-A
LOCATION: 7.6M.(HUB) 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 48.80 " N LAT. 77 ° 14 ' 46.80 " W LONG.

ANTENNA ID:	HubA7.6M	7.6 meters	ANDREW CORP.	ES76K-1
14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	PSK, DATA, 20 MSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	1M60G7D	53.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER	
11700.0000 - 12200.0000 MHz	200KG7D	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER		
11700.0000 - 12200.0000 MHz	400KG7D	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER		
11700.0000 - 12200.0000 MHz	200KG7D	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER		
11700.0000 - 12200.0000 MHz	400KG7D	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER		
11700.0000 - 12200.0000 MHz	800KG7D	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER		
11700.0000 - 12200.0000 MHz	1M60G7D	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER		

SITE ID: MESH 3.5M.
LOCATION: (5,000 3.5M. UNITS), CONUS, AK, HI, VI PR

ANTENNA ID:	MESH 3.5M	3.5 meters	COMTECH	846400G1
	14000.0000 - 14500.0000 MHz		2M46G7D	66.20 dBW
				BPSK OR OQPSK, DATA, MESH CARRIER
	11700.0000 - 12200.0000 MHz		2M46G7D	
				BPSK OR OQPSK, DATA, MESH CARRIER
SITE ID:	MESH 1.8M.			
LOCATION:	(5,000 1.8M UNITS), CONUS, AK, HI, PR VI			
ANTENNA ID:	MESH 1.8M	1.8 meters	HUGHES NETWORK SYSTEMS	PES-RFT-180
	14000.0000 - 14500.0000 MHz		156KG7D	48.60 dBW
				BPSK OR OQPSK, DATA, MESH CARRIER
	11700.0000 - 12200.0000 MHz		156KG7D	
				BPSK OR OQPSK, DATA, MESH CARRIER
SITE ID:	MESH 2.4M.			
LOCATION:	(5,000 2.4M. UNITS), CONUS, AK, HI, PR VI			
ANTENNA ID:	MESH 2.4M	2.4 meters	HUGHES NETWORK SYSTEMS	PES-RFT-240
	14000.0000 - 14500.0000 MHz		307KG7D	53.70 dBW
				BPSK OR OQPSK, DATA, MESH CARRIER
	11700.0000 - 12200.0000 MHz		307KG7D	
				BPSK OR OQPSK, DATA, MESH CARRIER
SITE ID:	MESH 1.2M.			
LOCATION:	(5,000 1.2M. UNITS), CONUS, AK, HI, PR VI			
ANTENNA ID:	MESH 1.2M	1.2 meters	HUGHES NETWORK SYTEMS	PES-RFT-120
	14000.0000 - 14500.0000 MHz		156KG7D	45.00 dBW
				BPSK OR OQPSK, DATA, MESH CARRIER
	11700.0000 - 12200.0000 MHz		156KG7D	0.00 dBW
				BPSK OR OQPSK, DATA, MESH CARRIER
SITE ID:	TR 74-2 CM			
LOCATION:	500,000 (.74 METER ANTENNAS), CONUS, AK, HI, VI PR			
ANTENNA ID:	TR 74-2CM	0.74 meters	RAVEN	HNS-AN-074R-KU
	14000.0000 - 14500.0000 MHz		200KG7D	41.70 dBW
				PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz		400KG7D	41.70 dBW
				OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz		800KG7D	41.70 dBW
				OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	PSK, DATA, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TFTR 74-2CM
LOCATION: 50,000 (.74 METER ANTENNAS), CONUS, AK, HI, VI PR

ANTENNA ID:	TFTR 74-2C	0.74 meters	PRODELIN	HNS-AN-074P-KU
14000.0000 - 14500.0000 MHz	200KG7D	41.70 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER	
14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER	
14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	PSK, DATA, 1024 KSPS, INROUTE CARRIER	
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA	
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA	
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA	
11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER	
11700.0000 - 12200.0000 MHz	400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER	

SITE ID: HUB H (11.1M)
LOCATION: 17633 TECHNOLOGY BLVD. (11.1M.HUB), WASHINGTON, HAGERSTOWN, MD
39 ° 35 ' 56.30 " N LAT. 77 ° 45 ' 17.90 " W LONG.

ANTENNA ID:	HUB H 11-1	11.1 meters	VERTEX	11.1 KPK
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14470.0000 - 14497.0000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14470.0000 - 14497.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14470.0000 - 14497.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14253.0000 - 14311.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14253.0000 - 14311.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14253.0000 - 14311.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14102.0000 - 14318.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14102.0000 - 14318.0000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE

14069.0000 - 14123.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
12170.0000 - 12197.0000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11802.0000 - 12018.0000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11802.0000 - 12018.0000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE

11769.0000 - 11823.0000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE

SITE ID: HUB 1 (3.9 M)
LOCATION: (3.9M.HUB1), MONTGOMERY, GERMANTOWN, MD

ANTENNA ID: HUB 1	3.9 meters	ANDREW CORPORATION	MILSATCOM 3.9 METER
14000.0000 - 14500.0000 MHz	36M0G7D	77.60 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	64.80 dBW	PSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DATA, 1024 KSPS, INROUTE CARRIER

SITE ID: TR 98CM
LOCATION: 200,000 (98CM ANTENNAS), CONUS, AK, HI, VI PR

ANTENNA ID: TR 98CM	0.98 meters	PRODELIN	HNS-AN-098P-KU
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	PSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	OQPSK, DIGITAL, 1024 KSPS, REURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	DIGITAL PSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	DIGITAL PSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	DIGITAL PSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	PSK, DATA, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	6M0G7D			DIGITAL PSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	12M0G7D			DIGITAL PSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D			DIGITAL PSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	36M0G7D			PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M0G7D			OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D			OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D			PSK, DATA, 256 KSPS, OUTROUTE CARRIER
ANTENNA ID:	TR 98CM-2	0.98 meters	RAVEN MANUFACTURING LIMITED	HNS-AN-098R-KU
SITE ID:	TF TR 1.2M.			
LOCATION:	1.2 M. (50,000 UNITS), CONUS, AK, HI, PR VI			
ANTENNA ID:	TF TR 1.2M	1.2 meters	PRODELIN	HNS-AN-120P-KU
14000.0000 - 14500.0000 MHz	200KG7D		46.10 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D		46.10 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7W		46.10 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D		46.10 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D			PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D			OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	6M00G7D			QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D			PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TR 74CM
LOCATION: VSAT 0.74M (98 x 56 cm) (350,000 UNITS), CONUS, AK,HI,PR, VI

ANTENNA ID: TR 74CM	0.74 meters	PRODELIN		HNS-AN-074P-KU
14000.0000 - 14500.0000 MHz	200KG7D	42.00 dBW		PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	42.00 dBW		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	42.00 dBW		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D			PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D			OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D			OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D			PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: HUB-C 7.6M
LOCATION: 11717 EXPLORATION LANE (7.6M. HUB), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 43.70 " N LAT. 77 ° 14 ' 55.30 " W LONG.

ANTENNA ID: HubC 7.6M	7.6 meters	NEC		APS-12/14-F64A
14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW		PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	65.00 dBW		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	70.80 dBW		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	PSK, DATA, 10 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

SITE ID: TR 2.4M.

LOCATION: VSAT 2.4M (11,000 units), CONUS, AK, HI, VI PR

ANTENNA ID: TR 2.4M.	2.4 meters	PRODELIN CORP.	HNS-AN-240P-KU
14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	52.20 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: HUB-D 7.6M

LOCATION: 11717 EXPLORATION LANE (7.6M. HUB), MONTGOMERY, GERMANTOWN, MD
 39 ° 10 ' 43.60 " N LAT. 77 ° 14 ' 53.30 " W LONG.

ANTENNA ID: HubD 7.6M	7.6 meters	NEC	APS-12/14-F0764A
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14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	65.00 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	70.80 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	PSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

SITE ID: HUB-E 6.1M
LOCATION: 11717 EXPLORATION LANE (6.1M. HUB), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 46.00 " N LAT. 77 ° 14 ' 48.20 " W LONG.

ANTENNA ID: HubE 6.1M 6.1 meters VERTEX 6.1KPK

14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	67.70 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	79.70 dBW	PSK, DATA, 20 MSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	97.70 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DATA, 256 KSPS, RETURN CARRIER

11700.0000 - 12200.0000 MHz	200KG7D	PSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

SITE ID: HUB-F 5.6M
LOCATION: 11717 EXPLORATION LANE (5.6M. HUB), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 46.80 " N LAT. 77 ° 14 ' 47.50 " W LONG.

ANTENNA ID:	HubF 5.6M	5.6 meters	ANDREW	ES56-1
14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	1M60G7D	58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	6M00G7D	67.70 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER	
14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER	
14000.0000 - 14500.0000 MHz	24M0G7D	77.70 dBW	PSK, DATA, 20 MSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	36M0G7D	77.70 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER	
11700.0000 - 12200.0000 MHz	200KG7D	PSK, DATA, 128 KSPS, INROUTE CARRIER		
11700.0000 - 12200.0000 MHz	400KG7D	OQPSK, DATA, 256 KSPS, RETURN CARRIER		
11700.0000 - 12200.0000 MHz	200KG7D	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER		
11700.0000 - 12200.0000 MHz	400KG7D	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER		
11700.0000 - 12200.0000 MHz	800KG7D	BPSK OR MSK, DATA, 522 KSPS, INROUTE CARRIER		
11700.0000 - 12200.0000 MHz	1M60G7D	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER		

SITE ID: HUB-G 4.6M
 LOCATION: 10450 PACIFIC CENTER COURT (4.6M. HUB), SAN DIEGO, SAN DIEGO, CA
 32 ° 54 ' 28.40 " N LAT. 117 ° 11 ' 26.60 " W LONG.

ANTENNA ID:	HubG 4.6M	4.6 meters	VERTEX	4.57KPK
	14000.0000 - 14500.0000 MHz	400KG7D	57.50 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	57.50 dBW	PSK, DATA, 1024 KSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz	200KG7D		PSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

Points of Communication:

- HUB 1 (3.9 M) - PERMITTED LIST2 - ()
- HUB H (11.1M) - GALAXY 25 (S2154) - (93.1 W.L.)
- HUB H (11.1M) - INTELSAT AMERICAS-6 - (93 W.L.)
- HUB-A - GALAXY 10R - (123 W.L.)
- HUB-A - HORIZONS 1 - (127 WL)
- HUB-A - IA-8 - (89 W.L.)
- HUB-A - PERMITTED LIST2 - ()
- HUB-A - SATMEX-5 - (116.8 W.L.)
- HUB-B - GALAXY 10R - (123 W.L.)
- HUB-B - HORIZONS 1 - (127 WL)
- HUB-B - IA-8 - (89 W.L.)
- HUB-B - PERMITTED LIST2 - ()
- HUB-B - SATMEX-5 - (116.8 W.L.)
- HUB-C 7.6M - GALAXY 10R - (123 W.L.)
- HUB-C 7.6M - HORIZONS 1 - (127 WL)
- HUB-C 7.6M - IA-8 - (89 W.L.)

HUB-C 7.6M - PERMITTED LIST2 - ()
HUB-C 7.6M - SATMEX-5 - (116.8 W.L.)
HUB-D 7.6M - GALAXY 10R - (123 W.L.)
HUB-D 7.6M - HORIZONS 1 - (127 WL)
HUB-D 7.6M - IA-8 - (89 W.L.)
HUB-D 7.6M - PERMITTED LIST2 - ()
HUB-D 7.6M - SATMEX-5 - (116.8 W.L.)
HUB-E 6.1M - GALAXY 10R - (123 W.L.)
HUB-E 6.1M - HORIZONS 1 - (127 WL)
HUB-E 6.1M - IA-8 - (89 W.L.)
HUB-E 6.1M - PERMITTED LIST2 - ()
HUB-E 6.1M - SATMEX-5 - (116.8 W.L.)
HUB-F 5.6M - GALAXY 10R - (123 W.L.)
HUB-F 5.6M - HORIZONS 1 - (127 WL)
HUB-F 5.6M - IA-8 - (89 W.L.)
HUB-F 5.6M - PERMITTED LIST2 - ()
HUB-F 5.6M - SATMEX-5 - (116.8 W.L.)
HUB-G 4.6M - PERMITTED LIST2 - ()
HUB-G 4.6M - SATMEX-5 - (116.8 W.L.)
MESH 1.2M. - PERMITTED LIST2 - ()
MESH 1.8M. - PERMITTED LIST2 - ()
MESH 2.4M. - PERMITTED LIST2 - ()
MESH 3.5M. - PERMITTED LIST2 - ()
TF TR 1.2M. - PERMITTED LIST2 - ()
TF TR 1.2M. - SATMEX-5 - (116.8 W.L.)
TF TR 74CM - AMC-3 - (72 W.L.)
TF TR 74CM - AMC-4 (formerly GE-4 - (101 W.L.)
TF TR 74CM - AMC-6 (S2347) - (67 W.L.)
TF TR 74CM - AMC-9 - (85 W.L.)

TF TR 74CM - Eutelsat113WA(S2695) - (113 W.L.)

TF TR 74CM - GALAXY 10R - (123 W.L.)

TF TR 74CM - GALAXY 16 (S2687) - (99 W.L.)

TF TR 74CM - GALAXY 17 (S2715) - (91 W.L.)

TF TR 74CM - GALAXY 18 - (123 W.L.)

TF TR 74CM - GALAXY 19 (S2647) - (97 W.L.)

TF TR 74CM - GALAXY 25 (S2154) - (93.1 W.L.)

TF TR 74CM - GALAXY 3C (S2381) - (95.05 W.L.)

TF TR 74CM - GALAXY XI - (91 W.L.)

TF TR 74CM - HORIZONS 1 - (127 WL)

TF TR 74CM - IA-8 - (89 W.L.)

TF TR 74CM - INTELSAT AMERICAS 5 - (97 W.L.)

TF TR 74CM - INTELSAT AMERICAS-6 - (93 W.L.)

TF TR 74CM - SATMEX-5 - (116.8 W.L.)

TF TR 98CM - AMC-3 - (72 W.L.)

TF TR 98CM - AMC-4 (formerly GE-4 - (101 W.L.)

TF TR 98CM - AMC-6 (S2347) - (67 W.L.)

TF TR 98CM - AMC-9 - (85 W.L.)

TF TR 98CM - Eutelsat113WA(S2695) - (113 W.L.)

TF TR 98CM - GALAXY 10R - (123 W.L.)

TF TR 98CM - GALAXY 17 (S2715) - (91 W.L.)

TF TR 98CM - GALAXY 18 - (123 W.L.)

TF TR 98CM - GALAXY 19 (S2647) - (97 W.L.)

TF TR 98CM - GALAXY 3C (S2381) - (95.05 W.L.)

TF TR 98CM - GALAXY XI - (91 W.L.)

TF TR 98CM - HORIZONS 1 - (127 WL)

TF TR 98CM - IA-8 - (89 W.L.)

TF TR 98CM - INTELSAT AMERICAS 5 - (97 W.L.)

TF TR 98CM - INTELSAT AMERICAS-6 - (93 W.L.)

TF TR 98CM - SATMEX-5 - (116.8 W.L.)

TFTR 74-2CM - AMC-3 - (72 W.L.)

TFTR 74-2CM - AMC-4 (formerly GE-4 - (101 W.L.)

TFTR 74-2CM - AMC-6 (S2347) - (67 W.L.)

TFTR 74-2CM - AMC-9 - (85 W.L.)

TFTR 74-2CM - Eutelsat113WA(S2695) - (113 W.L.)

TFTR 74-2CM - GALAXY 10R - (123 W.L.)

TFTR 74-2CM - GALAXY 16 (S2687) - (99 W.L.)

TFTR 74-2CM - GALAXY 17 (S2715) - (91 W.L.)

TFTR 74-2CM - GALAXY 18 - (123 W.L.)

TFTR 74-2CM - GALAXY 19 (S2647) - (97 W.L.)

TFTR 74-2CM - GALAXY 25 (S2154) - (93.1 W.L.)

TFTR 74-2CM - GALAXY 3C (S2381) - (95.05 W.L.)

TFTR 74-2CM - GALAXY XI - (91 W.L.)

TFTR 74-2CM - HORIZONS 1 - (127 WL)

TFTR 74-2CM - IA-8 - (89 W.L.)

TFTR 74-2CM - INTELSAT AMERICAS 5 - (97 W.L.)

TFTR 74-2CM - INTELSAT AMERICAS-6 - (93 W.L.)

TFTR 74-2CM - SATMEX-5 - (116.8 W.L.)

TR 1.0M. - PERMITTED LIST2 - ()

TR 1.0M. - SATMEX-5 - (116.8 W.L.)

TR 1.2M. - PERMITTED LIST2 - ()

TR 1.2M. - SATMEX-5 - (116.8 W.L.)

TR 1.8M. - PERMITTED LIST2 - ()

TR 1.8M. - SATMEX-5 - (116.8 W.L.)

TR 2.4M. - PERMITTED LIST2 - ()

TR 2.4M. - SATMEX-5 - (116.8 W.L.)

TR 74-2 CM - AMC-3 - (72 W.L.)

TR 74-2 CM - AMC-4 (formerly GE-4 - (101 W.L.)

TR 74-2 CM - AMC-6 (S2347) - (67 W.L.)

TR 74-2 CM - AMC-9 - (85 W.L.)

TR 74-2 CM - Eutelsat113WA(S2695) - (113 W.L.)

TR 74-2 CM - GALAXY 10R - (123 W.L.)

TR 74-2 CM - GALAXY 16 (S2687) - (99 W.L.)

TR 74-2 CM - GALAXY 17 (S2715) - (91 W.L.)

TR 74-2 CM - GALAXY 18 - (123 W.L.)

TR 74-2 CM - GALAXY 19 (S2647) - (97 W.L.)

TR 74-2 CM - GALAXY 25 (S2154) - (93.1 W.L.)

TR 74-2 CM - GALAXY 3C (S2381) - (95.05 W.L.)

TR 74-2 CM - GALAXY XI - (91 W.L.)

TR 74-2 CM - HORIZONS 1 - (127 WL)

TR 74-2 CM - IA-8 - (89 W.L.)

TR 74-2 CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 74-2 CM - INTELSAT AMERICAS-6 - (93 W.L.)

TR 74-2 CM - SATMEX-5 - (116.8 W.L.)

TR 74CM - AMC-3 - (72 W.L.)

TR 74CM - AMC-4 (formerly GE-4 - (101 W.L.)

TR 74CM - AMC-6 (S2347) - (67 W.L.)

TR 74CM - AMC-9 - (85 W.L.)

TR 74CM - Eutelsat113WA(S2695) - (113 W.L.)

TR 74CM - GALAXY 10R - (123 W.L.)

TR 74CM - GALAXY 16 (S2687) - (99 W.L.)

TR 74CM - GALAXY 17 (S2715) - (91 W.L.)

TR 74CM - GALAXY 18 - (123 W.L.)

TR 74CM - GALAXY 19 (S2647) - (97 W.L.)

TR 74CM - GALAXY 25 (S2154) - (93.1 W.L.)

TR 74CM - GALAXY 3C (S2381) - (95.05 W.L.)

TR 74CM - GALAXY 4R - (99 W.L.)

TR 74CM - GALAXY XI - (91 W.L.)

TR 74CM - HORIZONS 1 - (127 WL)

TR 74CM - IA-8 - (89 W.L.)

TR 74CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 74CM - INTELSAT AMERICAS-6 - (93 W.L.)

TR 74CM - SATMEX-5 - (116.8 W.L.)

TR 98CM - AMC-3 - (72 W.L.)

TR 98CM - AMC-4 (formerly GE-4 - (101 W.L.)

TR 98CM - AMC-6 (S2347) - (67 W.L.)

TR 98CM - Eutelsat113WA(S2695) - (113 W.L.)

TR 98CM - GALAXY 10R - (123 W.L.)

TR 98CM - GALAXY 16 (S2687) - (99 W.L.)

TR 98CM - GALAXY 17 (S2715) - (91 W.L.)

TR 98CM - GALAXY 18 - (123 W.L.)

TR 98CM - GALAXY 19 (S2647) - (97 W.L.)

TR 98CM - GALAXY 25 (S2154) - (93.1 W.L.)

TR 98CM - GALAXY 3C (S2381) - (95.05 W.L.)

TR 98CM - GALAXY XI - (91 W.L.)

TR 98CM - HORIZONS 1 - (127 WL)

TR 98CM - IA-8 - (89 W.L.)

TR 98CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 98CM - INTELSAT AMERICAS-6 - (93 W.L.)

TR 98CM - SATMEX-5 - (116.8 W.L.)

SES-MOD-20170414-00533 E E090178 HNS License Sub, LLC

Application for Modification

11/23/2009 - 11/23/2024

Grant of Authority

Date Effective: 06/21/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1620 PENDLETON STREET, RICHLAND, COLUMBIA, SC

33 ° 59 ' 59.40 " N LAT.

81 ° 1 ' 28.10 " W LONG.

ANTENNA ID:	1	3.7 meters	ANDREW	ES37MPJK-1
	14000.0000 - 14500.0000 MHz	36M0G7W	73.40 dBW	QPSK (SCPC COMPRESSED DIGITAL VIDEO)
	14000.0000 - 14500.0000 MHz	10M0G7W	73.40 dBW	QPSK (SCPC COMPRESSED DIGITAL VIDEO)
	14000.0000 - 14500.0000 MHz	1M00G7W	63.40 dBW	QPSK (SCPC COMPRESSED DIGITAL VIDEO)
	11700.0000 - 12200.0000 MHz	1M00G7W		QPSK (SCPC COMPRESSED DIGITAL VIDEO)
	11700.0000 - 12200.0000 MHz	36M0G7W		QPSK (SCPC COMPRESSED DIGITAL VIDEO)

Points of Communication:

1 - PERMITTED LIST 3 - ()

SES-MOD-20170414-00534	E E150083	HNS License Sub, LLC	12/02/2015 - 12/02/2030
Application for Modification			Date Effective: 06/21/2017
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 521 SE 8th Avenue, Potter, Amarillo, TX
35 ° 12 ' 16.80 " N LAT. 101 ° 49 ' 55.80 " W LONG.

ANTENNA ID:	1	8.1 meters	ASC Signal	Ka 8.1m
	29250.0000 - 30000.0000 MHz	250MG7D	88.30 dBW	M-ary PSK Outroute
	29250.0000 - 30000.0000 MHz	89M8G7W	88.30 dBW	M-ary PSK Outroute
	29250.0000 - 30000.0000 MHz	100KG7W	58.80 dBW	M-ary PSK Outroute
	27850.0000 - 29100.0000 MHz	89M8G7W	88.30 dBW	M-ary PSK Outroute
	27850.0000 - 29100.0000 MHz	250MG7D	88.30 dBW	M-ary PSK Outroute
	27850.0000 - 29100.0000 MHz	100KG7W	58.80 dBW	M-ary PSK Outroute
	19700.0000 - 20200.0000 MHz	250MG7W	0.00 dBW	M-ary PSK Inroute
	19700.0000 - 20200.0000 MHz	100KG7W	0.00 dBW	M-ary PSK Inroute
	18300.0000 - 19300.0000 MHz	250MG7W	0.00 dBW	M-ary PSK Inroute

18300.0000 - 19300.0000 MHz	100KG7W	0.00 dBW	M-ary PSK Inroute
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Points of Communication:

1 - JUPITER 97 W(S2834) - (97.1 W. L.)

SES-MOD-20170414-00535	E E150084	HNS License Sub, LLC	12/02/2015 - 12/02/2030
Application for Modification			Date Effective:
Grant of Authority			06/21/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 725 6th Street, NW, Bernalillo, Albuquerque, NM
35 ° 5 ' 32.20 " N LAT.

106 ° 39 ' 11.50 " W LONG.

ANTENNA ID: 1	8.1 meters	ASC Signal	Ka 8.1m
29250.0000 - 30000.0000 MHz	250MG7D	88.30 dBW	M-ary PSK Outroute
29250.0000 - 30000.0000 MHz	89M8G7W	88.30 dBW	M-ary PSK Outroute
29250.0000 - 30000.0000 MHz	100KG7W	58.80 dBW	M-ary PSK Outroute
27850.0000 - 29100.0000 MHz	89M8G7W	88.30 dBW	M-ary PSK Outroute
27850.0000 - 29100.0000 MHz	250MG7D	88.30 dBW	M-ary PSK Outroute
27850.0000 - 29100.0000 MHz	100KG7W	58.80 dBW	M-ary PSK Outroute
19700.0000 - 20200.0000 MHz	250MG7W	0.00 dBW	M-ary PSK Inroute
19700.0000 - 20200.0000 MHz	100KG7W	0.00 dBW	M-ary PSK Inroute
18300.0000 - 19300.0000 MHz	250MG7W	0.00 dBW	M-ary PSK Inroute
18300.0000 - 19300.0000 MHz	100KG7W	0.00 dBW	M-ary PSK Inroute

Points of Communication:

1 - JUPITER 97 W(S2834) - (97.1 W. L.)

SES-MOD-20170414-00536	E E150090	HNS License Sub, LLC	12/02/2015 - 12/02/2030
Application for Modification			Date Effective:
Grant of Authority			06/21/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 10215 W. Emerald Street, Ada, Boise, ID
 43 ° 36 ' 27.50 " N LAT. 116 ° 18 ' 35.50 " W LONG.

ANTENNA ID:	1	5.6 meters	ASC Signal	Ka 5.6m
	29250.0000 - 30000.0000 MHz	56M1G7W	83.00 dBW	M-ary PSK Outroute
	29250.0000 - 30000.0000 MHz	100KG7W	55.50 dBW	M-ary PSK Outroute
	29250.0000 - 30000.0000 MHz	250MG7W	83.00 dBW	M-ary PSK Outroute
	27850.0000 - 29100.0000 MHz	56M1G7W	83.00 dBW	M-ary PSK Outroute
	27850.0000 - 29100.0000 MHz	250MG7W	83.00 dBW	M-ary PSK Outroute
	27850.0000 - 29100.0000 MHz	100KG7W	55.50 dBW	M-ary PSK Outroute
	19700.0000 - 20200.0000 MHz	250MG7W	0.00 dBW	M-ary PSK Inroute
	19700.0000 - 20200.0000 MHz	100KG7W	0.00 dBW	M-ary PSK Inroute
	18300.0000 - 19300.0000 MHz	100KG7W	0.00 dBW	M-ary PSK Inroute
	18300.0000 - 18800.0000 MHz	250MG7W	0.00 dBW	M-ary PSK Inroute

Points of Communication:

1 - JUPITER 97 W(S2834) - (97.1 W. L.)

SES-MOD-20170414-00537 E E150092 HNS License Sub, LLC
 Application for Modification 12/04/2015 - 12/04/2030
 Grant of Authority Date Effective: 06/22/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 1030 Central Avenue, Yellowstone, Billings, MT
 45 ° 46 ' 7.30 " N LAT. 108 ° 32 ' 28.40 " W LONG.

ANTENNA ID:	1	5.6 meters	ASC Signal	Ka 5.6m
	29250.0000 - 30000.0000 MHz	56M1G7W	83.00 dBW	M-ary PSK Outroute
	29250.0000 - 30000.0000 MHz	250MG7W	83.00 dBW	M-ary PSK Outroute
	29250.0000 - 30000.0000 MHz	100KG7W	55.50 dBW	M-ary PSK Outroute
	27850.0000 - 29100.0000 MHz	56M1G7W	83.00 dBW	M-ary PSK Outroute

27850.0000 - 29100.0000 MHz	250MG7W	83.00 dBW	M-ary PSK Outroute
27850.0000 - 29100.0000 MHz	100KG7W	55.50 dBW	M-ary PSK Outroute
19700.0000 - 20200.0000 MHz	100KG7W	0.00 dBW	M-ary PSK Inroute
19700.0000 - 20200.0000 MHz	250MG7W	0.00 dBW	M-ary PSK Inroute
18300.0000 - 19300.0000 MHz	100KG7W	0.00 dBW	M-ary PSK Inroute
18300.0000 - 18800.0000 MHz	250MG7W	0.00 dBW	M-ary PSK Inroute

Points of Communication:

1 - JUPITER 97 W(S2834) - (97.1 W. L.)

SES-MOD-20170414-00538 E E150136 HNS License Sub, LLC
 Application for Modification 12/30/2015 - 12/30/2030
 Grant of Authority Date Effective: 06/21/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 2896 Crescent Ave, Suite 201, Lane, Eugene, OR
 44 ° 5 ' 29.70 " N LAT. 123 ° 3 ' 38.60 " W LONG.

ANTENNA ID: 1	1.6 meters	AvL Technologies	1.6m Ka Band Antenna
29998.5000 - 29998.5000 MHz	N0N	65.95 dBW	Continuous Wave (CW)
19700.0000 - 20200.0000 MHz	25K0G7D	0.00 dBW	Digital

Points of Communication:

1 - JUPITER 97 W(S2834) - (97.1 W. L.)

SES-MOD-20170414-00539 E E940441 HNS License Sub, LLC
 Application for Modification 09/09/2004 - 09/09/2019
 Grant of Authority Date Effective: 06/21/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: AERONAUTICAL CENTER 6500 S. MACARTHUR BLVD, OKLAHOMA, OKLAHOMA CITY, OK
 35 ° 24 ' 2.90 " N LAT. 97 ° 37 ' 11.80 " W LONG.

ANTENNA ID: 1	4.6 meters	ANDREWS	ES46P
14000.0000 - 14500.0000 MHz	1M98G7W	68.30 dBW	

14000.0000 - 14500.0000 MHz	3M96G7W	70.90 dBW
11700.0000 - 12200.0000 MHz	1M98G7W	
11700.0000 - 12200.0000 MHz	3M96G7W	

Points of Communication:

1 - PERMITTED LIST2 - ()

~~SES-MOD-20170425-00465~~ E E150097 ISAT US Inc.

Application for Modification

10/22/2015 - 10/22/2030

Grant of Authority

Date Effective: 06/26/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI

ANTENNA ID: Fixed 1	0.75 meters	Cobham SATCOM	3075
29500.0000 - 30000.0000 MHz	460KG7W	42.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	51.20 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	3M32G7W	51.20 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link

ANTENNA ID: TF 1	0.75 meters	Cobham SATCOM	5075
29500.0000 - 30000.0000 MHz	460KG7W	42.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	51.20 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	3M32G7W	51.20 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link

SITE ID: 2

LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI

ANTENNA ID: TF 2	1 meters	Cobham SATCOM	7100
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29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	54.90 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	4M18G7W	54.90 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link

SITE ID: 3
LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI

ANTENNA ID: Fixed 3	0.85 meters	L3	Cheetah II
29500.0000 - 30000.0000 MHz	460KG7W	44.40 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	53.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	3M99G7W	53.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link

SITE ID: 5
LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI

ANTENNA ID: Fixed 5	0.69 meters	Paradigm/SWT	Connect 70
29500.0000 - 30000.0000 MHz	460KG7W	43.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	51.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	3M24G7W	51.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link

SITE ID: 6
LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI

ANTENNA ID: Fixed 6	0.65 meters	SWT	Atom 65GX/01
29500.0000 - 30000.0000 MHz	460KG7W	42.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling

29500.0000 - 30000.0000 MHz	5M00G1W	49.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	2M40G7W	49.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link
ANTENNA ID: TF 6	0.65 meters	SWT	Atom 65AAGX/01
29500.0000 - 30000.0000 MHz	460KG7W	42.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	49.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	2M40G7W	49.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link
SITE ID: 7			
LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI			
ANTENNA ID: Fixed 7A	0.934 meters	Paradigm/SWT	Connect 100
29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	53.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	3M03G7W	53.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link
ANTENNA ID: TF 7	0.934 meters	Paradigm/SWT	Connect 100T
29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	53.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	3M03G7W	53.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link
ANTENNA ID: Fixed 7B	0.934 meters	Paradigm/SWT	SKY98GX/01

29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	53.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	3M03G7W	53.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link

SITE ID: 8
LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI

ANTENNA ID: Fixed 8A	1.8 meters	Paradigm/SWT	Connect 180
29500.0000 - 30000.0000 MHz	460KG7W	52.00 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	59.40 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	2M51G7W	59.40 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link

ANTENNA ID: Fixed 8B	1.8 meters	Paradigm/SWT	SKY180GX/01
29500.0000 - 30000.0000 MHz	460KG7W	52.00 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	59.40 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	2M51G7W	59.40 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link

SITE ID: 9
LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI

ANTENNA ID: Fixed 9	0.89 meters	SKYWARE TECHNOLOGIES	ATOM 99
29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	4M18G7W	54.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling

29500.0000 - 30000.0000 MHz	5M00G1W	54.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W		Various modulation up to 32 APSK Digital Data Link
ANTENNA ID: TF 9	0.89 meters	SYKYWARE TECHNOLOGIES	ATOM 99
29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	4M18G7W	54.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	54.50 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W		Various modulation up to 32 APSK Digital Data Link
SITE ID: 4	LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI		
ANTENNA ID: Fixed 4	1.2 meters	L3	Hawkeye III Lite
29500.0000 - 30000.0000 MHz	460KG7W	46.80 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	56.40 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	4M18G7W	56.40 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W	0.00 dBW	Various modulation up to 32 APSK Digital Data Link
SITE ID: 10	LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI		
ANTENNA ID: Fixed 10	0.75 meters	DATA PATH	QCT90GX
29500.0000 - 30000.0000 MHz	1M54G7W	51.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	51.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W		Various modulation up to 32 APSK Digital Data Link
ANTENNA ID: TF10	0.75 meters	DATA PATH	QCT90GX

29500.0000 - 30000.0000 MHz	1M54G7W	51.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	51.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W		Various modulation up to 32 APSK Digital Data Link

SITE ID: 11
LOCATION: 4000 Blanket Terminals, CONUS, PR, USVI

ANTENNA ID: Fixed 11	1 meters	DATA PATH	CCT120GX
29500.0000 - 30000.0000 MHz	1M52G7W	54.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	54.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W		Various modulation up to 32 APSK Digital Data Link

ANTENNA ID: TF11	1 meters	DATA PATH	CCT120GX
29500.0000 - 30000.0000 MHz	1M52G7W	54.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	460KG7W	45.30 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	5M00G1W	54.60 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W		Various modulation up to 32 APSK Digital Data Link

SITE ID: 12
LOCATION: 4000 Blanket Terminals CONUS, PR, USVI, AK, HI, US TERRITORIES

ANTENNA ID: Fixed 12	0.45 meters	PARADIGM	SWARM45
29500.0000 - 30000.0000 MHz	1M21G7W	46.20 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	2M42G7W	46.20 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling

19700.0000 - 20200.0000 MHz	32M0G7W		Various modulation up to 32 APSK Digital Data Link
ANTENNA ID: TF12	0.45 meters	PARADIGN	SWARM-45
29500.0000 - 30000.0000 MHz	1M21G7W	46.20 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
29500.0000 - 30000.0000 MHz	2M42G7W	46.20 dBW	Various modulation up to 32 APSK Digital Data Link/Data Signalling
19700.0000 - 20200.0000 MHz	32M0G7W		Various modulation up to 32 APSK Digital Data Link

Points of Communication:

- 1 - INMARSAT 5F2 - (55.0 W.L.)
- 1 - INMARSAT 5F3 - (179.6 E.L.)
- 10 - INMARSAT 5F2 - (55.0 W.L.)
- 10 - INMARSAT 5F3 - (179.6 E.L.)
- 11 - INMARSAT 5F2 - (55.0 W.L.)
- 11 - INMARSAT 5F3 - (179.6 E.L.)
- 12 - INMARSAT 5F2 - (55.0 W.L.)
- 12 - INMARSAT 5F3 - (179.6 E.L.)
- 2 - INMARSAT 5F2 - (55.0 W.L.)
- 2 - INMARSAT 5F3 - (179.6 E.L.)
- 3 - INMARSAT 5F2 - (55.0 W.L.)
- 3 - INMARSAT 5F3 - (179.6 E.L.)
- 4 - INMARSAT 5F2 - (55.0 W.L.)
- 4 - INMARSAT 5F3 - (179.6 E.L.)
- 5 - INMARSAT 5F2 - (55.0 W.L.)
- 5 - INMARSAT 5F3 - (179.6 E.L.)
- 6 - INMARSAT 5F2 - (55.0 W.L.)
- 6 - INMARSAT 5F3 - (179.6 E.L.)
- 7 - INMARSAT 5F2 - (55.0 W.L.)
- 7 - INMARSAT 5F3 - (179.6 E.L.)
- 8 - INMARSAT 5F2 - (55.0 W.L.)

8 - INMARSAT 5F3 - (179.6 E.L.)

9 - INMARSAT 5F2 - (55.0 W.L.)

9 - INMARSAT 5F3 - (179.6 E.L.)

SES-RWL-20170404-00439 E E000700 MCI Communications Services, Inc.

Renewal

06/18/2017 - 06/18/2032

Grant of Authority

Date Effective: 06/26/2017

Class of Station: Fixed Earth Stations

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

SITE ID: ANDVME

LOCATION: RTE 120, 494 ROXBURY POND, OXFORD, ANDOVER, ME

44 ° 38 ' 1.20 " N LAT.

70 ° 41 ' 51.30 " W LONG.

ANTENNA ID:	AND-11B	13 meters	VERTEX	13KPC	
5925.0000 - 6425.0000 MHz			56K0G7W-	66.00 dBW	PSK: DIGITAL AUDIO AND DATA
5925.0000 - 6425.0000 MHz			75M0G7W	83.70 dBW	PSK: DIGITAL AUDIO AND DATA
5925.0000 - 6425.0000 MHz			18M0F3F-	83.70 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz			36M0F3F-	83.70 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz			2M05F7W-	83.70 dBW	FDM AUDIO & DATA
5925.0000 - 6425.0000 MHz			36M0F7W	83.70 dBW	FDM AUDIO & DATA
5925.0000 - 6425.0000 MHz			56K0G2F-	66.00 dBW	PSK DIGITAL VIDEO
5925.0000 - 6425.0000 MHz			75M0G3F	83.70 dBW	PSK DIGITAL VIDEO
5850.0000 - 5925.0000 MHz			56K0G7W-	66.00 dBW	PSK: DIGITAL AUDIO AND DATA
5850.0000 - 5925.0000 MHz			75M0G7W	84.20 dBW	PSK: DIGITAL AUDIO AND DATA
5850.0000 - 5925.0000 MHz			18M0F3F-	84.20 dBW	ANALOG VIDEO
5850.0000 - 5925.0000 MHz			36M0F3F	84.20 dBW	ANALOG VIDEO
5850.0000 - 5925.0000 MHz			2M05F7W-	84.20 dBW	FDM AUDIO & DATA
5850.0000 - 5925.0000 MHz			36M0F7W	84.20 dBW	FDM AUDIO & DATA
5850.0000 - 5925.0000 MHz			56K0G2F-	66.00 dBW	PSK DIGITAL VIDEO
5850.0000 - 5925.0000 MHz			75M0G2F	84.20 dBW	PSK DIGITAL VIDEO

11450.0000 - 11700.0000 MHz	36M0F8F	0.00 dBW	ANALOG CARRIER
11450.0000 - 11700.0000 MHz	36M0G7F	0.00 dBW	DIGITAL CARRIER
10950.0000 - 11200.0000 MHz	1M00F2D	0.00 dBW	DIGITAL CARRIER
10950.0000 - 11200.0000 MHz	82K0F3N	0.00 dBW	ANALOG CARRIER
10950.0000 - 11200.0000 MHz	750KF2D	0.00 dBW	DIGITAL CARRIER
10950.0000 - 11200.0000 MHz	36M0F8F	0.00 dBW	ANALOG CARRIER
10950.0000 - 11200.0000 MHz	36M0G7F	0.00 dBW	DIGITAL CARRIER

Points of Communication:

1 - PERMITTED LIST 3 - ()

SES-RWL-20170523-00587 E KV29 Vyve Broadband A
 Renewal 08/13/2017 - 08/13/2032
 Grant of Authority Date Effective: 06/26/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: POTTAWATOMIE, SHAWNEE, OK
 35 ° 21 ' 4.00 " N LAT. 96 ° 55 ' 58.00 " W LONG.

ANTENNA ID: 1 5 meters AFC PR-16.4

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - PERMITTED LIST2 - ()

SES-RWL-20170523-00588 E KR67 Vyve Broadband A
 Renewal 07/16/2017 - 07/16/2032
 Grant of Authority Date Effective: 06/26/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: OSAGE, PAWHUSKA, OK
 36 ° 38 ' 56.00 " N LAT. 96 ° 20 ' 2.00 " W LONG.

ANTENNA ID: 1 5 meters SCIENTIFIC ATLANTA 8008

3700.0000 - 4200.0000 MHz 36000F9

SES-STA-20170607-00629 E KA275 Intelsat License LLC
Special Temporary Authority
Grant of Authority

Date Effective: 06/21/2017

Class of Station:

On June 21, 2017, Intelsat License, LLC was granted a special temporary authority for 30 days, beginning June 26, 2017, to operate its fixed earth station in Hagerstown, MD to: (1) provide launch and early orbit phase (LEOP) services for Intelsat 35e satellite; (2) conduct telemetry, tracking, and command (TT&C) services during in-orbit testing (IOT) at 33.0° W.L.; and (3) conduct TT&C services as it drifts from 33.0° W.L. to 34.5° W.L. and on-station at the 34.5° W.L. orbital location. The operations will be performed using the following center frequencies: 6424.5 MHz, and 5853.0 MHz (Earth-to-space), and 4197.75 MHz, 4198.25 MHz, 4198.75 MHz, and 4199.25 MHz (space-to-Earth).

Points of Communication:

SES-STA-20170607-00630 E E000296 Intelsat License LLC
Special Temporary Authority
Grant of Authority

Date Effective: 06/23/2017

Class of Station:

On June 23, 2017, Intelsat License, LLC was granted special temporary authority for 30 days, beginning June 26, 2017, to operate its fixed earth station in Hagerstown, MD to: (1) provide launch and early orbit phase (LEOP) services for Intelsat 35e satellite; (2) conduct telemetry, tracking, and command (TT&C) services during in-orbit testing (IOT) at 33.0° W.L.; and (3) conduct TT&C services as it drifts from 30.0° W.L. to 34.5° W.L. and on-station at the 34.5° W.L. orbital location. The operations will be performed using the following center frequencies: 6424.5 MHz and 5853.0 MHz (Earth-to-space), and 4197.75 MHz, 4198.25 MHz, 4198.75 MHz, and 4199.25 MHz (space-to-Earth).

Points of Communication:

SES-STA-20170607-00631 E E040125 Intelsat License LLC
Special Temporary Authority
Grant of Authority

Date Effective: 06/23/2017

Class of Station:

On June 23, 2017, Intelsat License LLC was granted special temporary authority for 30 days, beginning June 26, 2017, to operate its fixed earth station in Riverside, CA to provide launch and early orbit phase (LEOP) services for the Intelsat 35e satellite at the 34.5° W.L. orbital location on the following center frequencies: 5853.00 MHz and 6424.50 MHz (Earth-to-space), and 4197.75 MHz, 4198.25 MHz, 4198.75 MHz and 4199.25 MHz (space-to-Earth).

Points of Communication:

SES-STA-20170607-00632 E E040125 Intelsat License LLC
Special Temporary Authority
Grant of Authority

Date Effective: 06/23/2017

Class of Station:

On June 23, 2017, Intelsat License LLC was granted special temporary authority for 30 days, beginning June 28, 2017, to operate its fixed earth station in Riverdale, CA to provide launch and early orbit phase (LEOP) services for the GSAT-17 satellite, licensed by India, at the 93.5° E.L. orbital location using the following center frequencies: 6415.00 MHz and 6423.496 MHz (Earth-to-space), and 4195.776 MHz and 4197.504 MHz (space-to-Earth).

Points of Communication:

SES-STA-20170607-00633 E E4132 Intelsat License LLC

Special Temporary Authority
Grant of Authority

Date Effective: 06/23/2017

Class of Station:

On June 23, 2017, Intelsat License LLC was granted special temporary authority for 30 days, beginning June 28, 2017, to operate its fixed earth station in Fillmore, CA to provide launch and early orbit phase (LEOP) services for the GSAT-17 satellite, licensed by India, at the 93.5° E.L. orbital location using the following center frequencies: 6415.00 MHz and 6423.496 MHz (Earth-to-space), and 4195.776 MHz and 4197.504 MHz (space-to-Earth).

Points of Communication:

SES-STA-20170612-00642 E SIS Live Ltd

Special Temporary Authority
Grant of Authority

Date Effective: 06/20/2017

Class of Station:

On June 20, 2017, SIS Live, Ltd, was granted special temporary authority for five days, beginning July 5, 2017, to operate a 2.4-meter temporary-fixed earth station in Salinas, CA with the Galaxy 25 (S2154) satellite at the 93.0° W.L orbital location in the 14122.50-14134.50 MHz (Earth-to-space) frequency band.

Points of Communication:

SES-STA-20170613-00643 E RBC Signals, LLC

Special Temporary Authority
Grant of Authority

Date Effective: 06/22/2017

Class of Station:

On June 22, 2017, RBC Signals, LLC, was granted special temporary authority for 60 days, beginning June 23, 2017, to operate a 3.57-meter Yagi antenna fixed earth station in Deadhorse, AK to provide telemetry, tracking and command (TT&C) services to the "Red Diamond", "Green Diamond" and "Blue Diamond" satellites, licensed by the United Kingdom, in the 399.926-399.950 MHz (Earth-to-space) and 401.05-401.25 MHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20170613-00644 E KA258 Intelsat License LLC

Special Temporary Authority
Grant of Authority

Date Effective: 06/23/2017

Class of Station:

On June 23, 2017, Intelsat License, LLC was granted special temporary authority for 30 days, beginning July 16, 2017, to operate its fixed earth station in Hagerstown, MD to provide in-orbit testing (IOT) of the Intelsat 35e (S2959) satellite at the 33° W.L. orbital location in the 11.70-12.50 GHz (space-to-Earth) and 14.0-14.5 GHz (Earth-to-space) frequency bands.

Points of Communication:

SES-STA-20170613-00645 E E000296 Intelsat License LLC

Special Temporary Authority
Grant of Authority

Date Effective: 06/23/2017

Class of Station:

On June 23, 2017, United Teleports, Inc. was granted special temporary authority for 60 days, beginning July 3, 2017, to operate a 7-meter antenna in Port Saint Lucie, FL to communicate with the SES-10 (S2950) satellite at the 66.9° W.L. orbital location in the 10.95-11.20 GHz and 11.45-12.20 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space) frequency bands.

Points of Communication:

SES-T/C-20170622-00672 E E140126 Midwest Information Systems, Inc.

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 06/27/2017

Current Licensee: Midwest Information Systems, Inc.

FROM: C/O SCIARRINO & SHUBERT, PLLC

TO: The Estate of Janice M. Ingstad (Tanya Ingstad Knudson, PR)

No. of Station(s) listed: 2

SURRENDER

SES-RWL-20020827-01440 E920503 MICROSPACE COMMUNICATIONS CORPORATION

License surrendered by letter filed on June 22, 2017.

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