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Wednesday May 17, 2017

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

No. of Station(s) listed: 1

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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 LIST - ()				
SES-LIC-20170321-00323 E E170086 Intelsat License LLC				
Application for Authority				
Class of Station:		Fixed Earth Stations		
Nature of Service:		Fixed Satellite Service		
SITE ID: 1				
LOCATION:		2857 Fork Creek Church Road, Clayton, Ellenwood, GA		
		33 ° 39 ' 53.34 " N LAT.		

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
5925.0000 - 5929.0000 MHz	4M00G7W	77.30 dBW	Compressed Digital Data
5925.0000 - 5929.0000 MHz	750KG7W	73.53 dBW	Data Carrier (Digital)
4195.0000 - 4200.0000 MHz	1M00G2D		Telemetry and Ranging
3700.0000 - 4200.0000 MHz	36M0G7W		Analog Video
3700.0000 - 4200.0000 MHz	36M0F8W		Compressed Video (Digital)
3700.0000 - 3705.0000 MHz	1M00G2D		Telemetry and Ranging
3700.0000 - 3705.0000 MHz	750KG2D		Telemetry and Ranging

Points of Communication:

1 - DBSD G-1 - (92.85 W.L.)

1 - ECHOSTAR 1 - (77 W.L.)

1 - PERMITTED LIST - ()

SES-LIC-20170414-00404 E E170094 EchoStar Broadcasting Holding Corporation

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1335 Wissler Road, Shenandoah, Quicksburg, VA

38 ° 43 ' 23.10 " N LAT.

78 ° 39 ' 57.80 " W LONG.

ANTENNA ID:	1	13.2 meters	GDSATCOM	13.2 Meter
17300.0000 - 17800.0000 MHz		1M50G2D	87.40 dBW	Command Carrier (TT&C)
17300.0000 - 17800.0000 MHz		24M0G7W	87.40 dBW	Digital Compressed Video
12200.0000 - 12700.0000 MHz		300KG2D		Telemetry Beacon (TT&C)
12200.0000 - 12700.0000 MHz		24M0G7W		Digital Compressed Video

Points of Communication:

1 - ECHOSTAR/DISH - ()

SES-LIC-20170414-00405 E E170095 EchoStar Broadcasting Holding Corporation

Application for Authority

Class of Station: Fixed Earth Stations

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 LIST - ()			
1 - TELSTAR 11N (S2357) - (37.5 W.L.)			
SES-LIC-20170418-00392 E E170092 Kratos RT Logic			
Application for Authority			
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
12250.0000 - 12700.0000 MHz	N0N		CW IOT
10950.0000 - 11200.0000 MHz	5M00G7W		Digital Data Carrier
11450.0000 - 12200.0000 MHz	5M00G7W		Digital Data Carrier
12250.0000 - 12700.0000 MHz	5M00G7W		Digital Data Carrier
14000.0000 - 14500.0000 MHz	N0N	32.50 dBW	CW IOT
14000.0000 - 14500.0000 MHz	5M00G7W	63.40 dBW	Digital Data Carrier
Points of Communication:			
1 - EUTELSAT AB-2(S2596) - (8.0 W.L.)			
1 - PERMITTED LIST - ()			
SES-LIC-20170512-00552 E E170109 North Slope Borough			
Application for Authority			
Class of Station: Fixed Earth Stations			
Nature of Service: Fixed Satellite Service			

SITE ID: 1
LOCATION: 4th St. and Hula Hula Ave, North Slope Borough, Kaktovik, AK
70 ° 7 ' 33.40 " N LAT. 143 ° 37 ' 8.20 " W LONG.

ANTENNA ID:	2.4M.	2.4 meters	General Dynamics	1244
	3700.0000 - 4200.0000 MHz	240KG7W		Digital Data Carrier
	3700.0000 - 4200.0000 MHz	680KG7W		Digital Data Carrier
	5925.0000 - 6425.0000 MHz	240KG7W	47.18 dBW	Digital Data Carrier
	5925.0000 - 6425.0000 MHz	680KG7W	51.70 dBW	Digital Data Carrier

Points of Communication:

1 - EUTELSAT115WB(S2938) - (114.9 W.L.)

1 - PERMITTED LIST - ()

SES-MOD-20170414-00524 E E010242 EchoStar Operating L.L.C.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Other

EchoStar Operating LLC requests modification of its fixed earth station in Gilbert, AZ to update station location coordinates.

SITE ID: 1
LOCATION: 801 NORTH AMERICAN SKY BLVD., MARICOPA, GILBERT, AZ
33 ° 21 ' 59.90 " N LAT. 111 ° 48 ' 51.00 " W LONG.

ANTENNA ID:	1	9 meters	VERTEX	9M
	17308.2500 - 17309.7500 MHz	1M50G2D	73.70 dBW	TELEMETRY BEACON (TT&C)
	17300.0000 - 17800.0000 MHz	24M0M1F	85.78 dBW	DIGITAL TV
	12698.3500 - 12698.6500 MHz	300KG2D	0.00 dBW	TELEMETRY BEACON (TT&C)
	12202.3500 - 12202.6500 MHz	300KG2D	0.00 dBW	TELEMETRY BEACON (TT&C)
	12200.3500 - 12200.6500 MHz	300KG2D	0.00 dBW	TELEMETRY BEACON (TT&C)
	12200.0000 - 12700.0000 MHz	24M0M1F	0.00 dBW	DIGITAL TV

Points of Communication:

1 - ECHOSTAR/DISH - ()

SES-MOD-20170414-00525 E E150080 HNS License Sub, LLC

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in North Platte, NE to update station location coordinates.

SITE ID: 1
LOCATION: 1003 East State Farm Road, Lincoln, North Platte, NE
41 ° 5 ' 26.85 " N LAT. 100 ° 45 ' 11.32 " 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-20170414-00526 E E990170 HNS License Sub, LLC
Application for Modification
Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Southfield, MI to update station location coordinates.

SITE ID: HUB-A
LOCATION: 24000 NORTHWESTERN HIGHWAY (5.6-METER), OAKLAND, SOUTHFIELD, MI
42 ° 28 ' 0.50 " N LAT. 83 ° 13 ' 53.00 " W LONG.

ANTENNA ID:	HUB-A	5.6 meters	ANDREW CORPORATION	ES56-1
14000.0000 - 14500.0000 MHz		1M60G7D	59.20 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER

	14000.0000 - 14500.0000 MHz	400KG7D	53.20 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	6M00G7D	64.20 dBW	BPSK, DATA, 5 MSPS MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	6M00G7D	67.20 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	12M0G7D	67.20 dBW	BPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	12M0G7D	70.20 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	24M0G7D	70.20 dBW	BPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	24M0G7D	73.20 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	18M0F9W	70.10 dBW	ANALOG VIDEO WITH AUDIO IN HALF TRANSPONDER
	14000.0000 - 14500.0000 MHz	36M0F9W	73.10 dBW	ANALOG VIDEO WITH AUDIO IN FULL TRANSPONDER
	11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE 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
SITE ID:	HUB-B			
LOCATION:	24000 NORTHWESTERN HIGHWAY (4.6-METER), OAKLAND, SOUTHFIELD, MI			
	42 ° 28 ' 0.60 " N LAT.		83 ° 13 ' 53.50 " W LONG.	
ANTENNA ID:	HUB-B	4.6 meters	ANDREW CORPORATION	ESA46MPJ-1
	14000.0000 - 14500.0000 MHz	400KG7D	53.20 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	59.20 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	6M00G7D	64.20 dBW	BPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	6M00G7D	67.20 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

14000.0000 - 14500.0000 MHz	12M0G7D	67.20 dBW	BPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	70.20 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	70.20 dBW	BPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	73.20 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0F9W	73.10 dBW	ANALOG VIDEO WITH AUDIO IN FULL TRANSPONDER
14000.0000 - 14500.0000 MHz	18M0F9W	70.10 dBW	ANALOG VIDEO WITH AUDIO IN HALF TRANSPONDER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE 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
SITE ID:	HUB-C		
LOCATION:	24000 NORTHWESTERN HIGHWAY (7.6-METER), OAKLAND, SOUTHFIELD, MI		
	42 ° 28 ' 1.00 " N LAT.	83 ° 13 ' 53.20 " W LONG.	
ANTENNA ID:	HUB-C	7.6 meters	ANDREW CORPORARION
			ES76K-1
14000.0000 - 14500.0000 MHz	400KG7D	58.20 dBW	BPSK, DATA, 256 KSPS, OUTROUTE BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	64.20 dBW	BPSK, DATA, 1024, KSPS, OUTROUTE BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	69.20 dBW	BPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	72.20 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	72.20 dBW	BPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	75.20 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

14000.0000 - 14500.0000 MHz	24M0G7D	75.20 dBW	BPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	78.20 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0F9W	78.10 dBW	ANALOG VIDEO WITH AUDIO IN FULL TRANSPONDER
14000.0000 - 14500.0000 MHz	18M0F9W	75.10 dBW	ANALOG VIDEO WITH AUDIO IN HALF TRANSPONDER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE 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
SITE ID: REMOTE 1			
LOCATION: (1.8m. VSAT), 5,000 UNITS, CONUS, AK, HI,PR, VI			
ANTENNA ID: REMOTE 1A	1.8 meters	PRODELIN CORPORATION	1184
14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	BPSK OR MSK, DATA, 256 KSPS INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		BPSK, DATA, 5 MSPS MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		BPSK, DATA, 10 MSPS MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		BPSK, DATA, 20 MSPS MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	18M0F9W		ANALOG VIDEO WITH AUDIO IN HALF TRANSPONDER
11700.0000 - 12200.0000 MHz	36M0F9W		ANALOG VIDEO WITH AUDIO IN FULL TRANSPONDER
SITE ID: REMOTE 2			
LOCATION: (1.2m VSAT), 20,000 UNITS, CONUS, AK, HI,PR,VI			
ANTENNA ID: REMOTE 2A	1.2 meters	PRODELIN CORPORATION	1134
14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		BPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		BPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		BPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	18M0F9W		ANALOG VIDEO WITH AUDIO IN HALF TRANSPONDER
11700.0000 - 12200.0000 MHz	36M0F9W		ANALOG VIDEO WITH AUDIO IN FULL TRANSPONDER

SITE ID: REMOTE 3
LOCATION: (2.4m VSAT), 5,000 UNITS, CONUS, AK, HI,PR,VI

ANTENNA ID:	REMOTE 3A	2.4 meters	PRODELIN CORPORATION	1244
14000.0000 - 14500.0000 MHz		200KG7D	52.20 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz		400KG7D	52.20 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz		800KG7D	52.20 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz		400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz		1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz		6M00G7D		BPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz		6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz		12M0G7D		BPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz		12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz		24M0G7D		BPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz		24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz		18M0F9W		ANALOG VIDEO WITH AUDIO IN HALF TRANSPONDER
11700.0000 - 12200.0000 MHz		36M0F9W		ANALOG VIDEO WITH AUDIO IN FULL TRANSPONDER

SITE ID: REMOTE 4
LOCATION: (1.0m VSAT), 50,000 UNITS, CONUS, AK, HI,PR,VI

ANTENNA ID:	REMOTE 4A	1 meters	PRODELIN CORPORATION	1102
14000.0000 - 14500.0000 MHz		200KG7D	44.00 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER

14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.00 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		BPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		BPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		BPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	18M0F9W		ANALOG VIDEO WITH AUDIO IN HALF TRANSPONDER
11700.0000 - 12200.0000 MHz	36M0F9W		ANALOG VIDEO WITH AUDIO IN FULL TRANSPONDER

SITE ID: HUB-D

LOCATION: 2400 NORTHWESTERN HIGHWAY, OAKLAND, SOUTHFIELD, MI

ANTENNA ID:	HUB-D	2.4 meters	ANDREW CORPORATION	ESA2.4VSMKU
14000.0000 - 14500.0000 MHz	36M0G7D	73.97 dBW	OUTROUTE, PSK, 30 MSPS	
14000.0000 - 14500.0000 MHz	1M60G7D	61.22 dBW	OUTROUTE, PSK, 1024 KSPS	
11700.0000 - 12200.0000 MHz	200KG7D		INBOUND , PSK, 128, KSPS	
11700.0000 - 12200.0000 MHz	800KG7D		INBOUND, PSK, 512 KSPS	

Points of Communication:

HUB-A - PERMITTED LIST - ()

HUB-B - PERMITTED LIST - ()

HUB-C - PERMITTED LIST - ()

HUB-D - PERMITTED LIST - ()

REMOTE 1 - PERMITTED LIST - ()

REMOTE 2 - PERMITTED LIST - ()

REMOTE 3 - PERMITTED LIST - ()

REMOTE 4 - PERMITTED LIST - ()

SES-MOD-20170414-00529 E E8454 HNS License Sub, LLC

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Dayton, OH to update station location coordinates.

SITE ID: 1

LOCATION: WRIGHT PATTERSON AFB, GREEN, DAYTON, OH

39 ° 47 ' 1.70 " N LAT.

84 ° 4 ' 51.20 " W LONG.

ANTENNA ID: 1 4.6 meters ANDREWS ES46P

14000.0000 - 14500.0000 MHz 4M00G2W 69.80 dBW QPSK, MCPC, COMPRESSED
DIGITAL VIDEO

11700.0000 - 12200.0000 MHz 4M00G2W 0.00 dBW QPSK, MCPC, COMPRESSED
DIGITAL VIDEO

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20170414-00530 E E060383 HNS License Sub, LLC

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Fillmore, CA to update station location coordinates.

SITE ID: FILLMORE STATION 2

LOCATION: 33 EAST TELEGRAPH ROAD, VENTURA, FILLMORE, CA

34 ° 24 ' 16.70 " N LAT.

118 ° 53 ' 39.20 " W LONG.

ANTENNA ID: 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	200KG7W	TELEMETRY AND RANGING
19700.5000 - 19702.5000 MHz	300KG7W	TELEMETRY AND RANGING
19700.5000 - 19702.5000 MHz	70K0G7W	TELEMETRY AND RANGING

SITE ID: Fillmore Station
LOCATION: 33 East Telegraph Road, Ventura, Fillmore, CA
34 ° 24 ' 16.30 " N LAT. 118 ° 53 ' 38.30 " W LONG.

ANTENNA ID: 1	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	944KF9D	56.30 dBW	Command and Ranging Carriers
29500.0000 - 29515.0000 MHz	1M30F9D	56.30 dBW	Command and Ranging Carriers
19700.0000 - 19706.0000 MHz	106KG7D	0.00 dBW	Telemetry and Ranging

Points of Communication:

Fillmore Station - IA-8 - (89 W.L.)
Fillmore Station - SPACEWAY 3 - (95 W.L.)
FILLMORE STATION 2 - AMC-15 - (105 W.L.)
FILLMORE STATION 2 - AMC-16 - (85 W.L.)
FILLMORE STATION 2 - EchostarXVII(S2753) - (107.1 W.L.)
FILLMORE STATION 2 - GALAXY 28 (S2160) - (89.0 W.L.)

SES-MOD-20170414-00531 E E060382 HNS License Sub, LLC

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth stations in Castle Rock, CO and North Las Vegas, NV to update station location coordinates.

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
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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
Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its VSAT network license for all the hub sites in Germantown, MD and San Diego, CA to update stations location coordinates.

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		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		OQPSK, 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	OQPSK, 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	OQPSK, DIGITAL, 256 KSPS, RETURN 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-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
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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

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	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	6M00G7D	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	6M00G7D		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	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
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		OQPSK, 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

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 LIST - ()

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 LIST - ()

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 LIST - ()

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 LIST - ()

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 LIST - ()

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 LIST - ()

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 LIST - ()

HUB-F 5.6M - SATMEX-5 - (116.8 W.L.)

HUB-G 4.6M - PERMITTED LIST - ()

HUB-G 4.6M - SATMEX-5 - (116.8 W.L.)

MESH 1.2M. - PERMITTED LIST - ()

MESH 1.8M. - PERMITTED LIST - ()

MESH 2.4M. - PERMITTED LIST - ()

MESH 3.5M. - PERMITTED LIST - ()

TF TR 1.2M. - PERMITTED LIST - ()

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 - (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 - (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 LIST - ()

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

TR 1.2M. - PERMITTED LIST - ()

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

TR 1.8M. - PERMITTED LIST - ()

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

TR 2.4M. - PERMITTED LIST - ()

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 - (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 - (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 - (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

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Columbia, SC to update station location coordinates.

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 - ()

SES-MOD-20170414-00534 E E150083 HNS License Sub, LLC

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Amarillo, TX to update station location coordinates.

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

Points of Communication:

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

SES-MOD-20170414-00535 E E150084 HNS License Sub, LLC

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Albuquerque, NM to update station location coordinates.

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

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Boise, ID to update station location coordinates.

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

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Billings, MT to update station location coordinates.

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

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Eugene, OR to update station location coordinates.

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

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC requests modification of its fixed earth station in Oklahoma City, OK to update station location coordinates.

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 LIST - ()

SES-MOD-20170504-00498 E E140037 Production & Satellite Services, Inc.

Application for Modification

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

Production and Satellite Services, Inc. requests modification of its temporary-fixed earth station, to replace the antenna, remove analog emission designators, remove Ku band frequencies, and add C band frequencies. This station will continue to operate with Permitted List satellites.

SITE ID: 1

LOCATION: 4415 Wagon Trail Ave, Clark, Las Vegas, NV

ANTENNA ID:	1	2.4 meters	ANDREW CORPORATION	2400c
	5925.0000 - 6425.0000 MHz	36M0G7F	66.94 dBW	DIGITAL TV WITH ASSOCIATED AUDIO

5925.0000 - 6425.0000 MHz	4M00G7F	58.99 dBW	DIGITAL TV WITH ASSOCIATED AUDIO
3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL TV WITH ASSOCIATED AUDIO
3700.0000 - 4200.0000 MHz	4M00G7F		DIGITAL TV WITH ASSOCIATED AUDIO
Points of Communication:			
1 - PERMITTED LIST - ()			
SES-T/C-20170505-00504	E E900512	BlueStone License Holdings Inc.	
Application for Consent to Transfer of Control			
Current Licensee: BlueStone License Holdings Inc.			
FROM: BONTEN MEDIA GROUP LLC			
TO: Sinclair Television Group, Inc.			
			No. of Station(s) listed: 3
SES-T/C-20170505-00505	E E990180	North Carolina License Holdings Inc.	
Application for Consent to Transfer of Control			
Current Licensee: North Carolina License Holdings Inc.			
FROM: BONTEN MEDIA GROUP LLC			
TO: Sinclair Television Group, Inc.			
			No. of Station(s) listed: 1
SES-T/C-20170505-00507	E E050392	North Carolina License Holdings Inc.	
Application for Consent to Transfer of Control			
Current Licensee: North Carolina License Holdings Inc.			
FROM: BONTEN MEDIA GROUP LLC			
TO: Sinclair Television Group, Inc.			
			No. of Station(s) listed: 1
SES-T/C-20170505-00508	E E040432	BlueStone License Holdings Inc.	
Application for Consent to Transfer of Control			
Current Licensee: BlueStone License Holdings Inc.			
FROM: BONTEN MEDIA GROUP LLC			
TO: Sinclair Television Group, Inc.			
			No. of Station(s) listed: 2

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