

SITE ID: 1
 LOCATION: 2457 Care Drive Suite 101, Leon, Tallahassee, FL
 30 ° 30 ' 18.20 " N LAT. 84 ° 14 ' 26.70 " W LONG.

ANTENNA ID:	1	4.5 meters	ASC Signal	4.5M	
	5925.0000 - 6425.0000 MHz		51K2G7W	42.07 dBW	Digital traffic, various FEC, data rates and modulation
	5925.0000 - 6425.0000 MHz		36M0G7W	70.44 dBW	Digital traffic, various FEC, data rates and modulation
ANTENNA ID:	2	4.5 meters	ASC Signal	4.5M	
	14000.0000 - 14500.0000 MHz		36M0G7W	80.54 dBW	Digital traffic, various FEC, data rates and modulation
	14000.0000 - 14500.0000 MHz		51K2G7W	52.17 dBW	Digital traffic, various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20190918-01162 E E190720 GCI Communication Corp.
 Application for Authority 12/10/2019 - 12/10/2034
 Granted in Part/ Deferred in Part Date Effective: 12/10/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

"Action to grant authority to operate in the 3700-4200 MHZ frequency band is deferred band pending consideration of the request for waiver of the temporary freeze on applications for new or modified FSS earth stations announced in the, "Temporary Freeze on Applications for New or Modified Fixed Satellite Service Earth Stations and Fixed Microwave Stations in the 3.7-4.2 GHz Band; 90-Day Window to File Applications for Earth Stations Currently Operating in 3.7-4.2 GHz Band, Public Notice, 33 FCC Rcd 3841 (IB/PSHSB/WTB 2018)."

SITE ID: 1
 LOCATION: Boardwalk Village, within the community, Nunam Iqua, AK
 62 ° 31 ' 49.70 " N LAT. 164 ° 51 ' 7.30 " W LONG.

ANTENNA ID:	1	3.6 meters	Scientific Atlanta	8136	
	5925.0000 - 6425.0000 MHz		45K0G7W-	53.41 dBW	Phase modulated voice, video, and data services.
	5925.0000 - 6425.0000 MHz		72M0G7W	68.61 dBW	Phase modulated voice, video, and data services.
	5925.0000 - 6425.0000 MHz		60K0D7W -	54.66 dBW	Amplitude and Angle Modulated Voice, Video, and Data services
	5925.0000 - 6425.0000 MHz		72M0D7W	68.61 dBW	Amplitude and Angle Modulated Voice, Video, and Data services

ANTENNA ID:	1	3.6 meters	Scientific Atlanta	8136
	5925.0000 - 6425.0000 MHz		45K0G7W-	53.41 dBW
				Phase modulated voice, video, and data services.
	5925.0000 - 6425.0000 MHz		72M0G7W	68.61 dBW
				Phase modulated voice, video, and data services.
	5925.0000 - 6425.0000 MHz		60K0D7W -	54.66 dBW
				Amplitude and Angle Modulated Voice, Video, and Data services

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20191024-01390 E E190893 WML Services, LLC
 Application for Authority 12/09/2019 - 12/09/2034
 Grant of Authority Date Effective: 12/09/2019

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION:

ANTENNA ID:	1	2.4 meters	AVL Technologies	2410
	11700.0000 - 12200.0000 MHz		36M0G7F	0.00 dBW
				Compressed Digital Video and Audio
	11700.0000 - 12200.0000 MHz		4M00G7F	0.00 dBW
				Compressed Digital Video and Audio
	14000.0000 - 14500.0000 MHz		36M0G7F	73.82 dBW
				Compressed Digital Video and Audio
	14000.0000 - 14500.0000 MHz		4M00G7F	64.28 dBW
				Compressed Digital Video and Audio

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20191024-01391 E E190894 WML Services, LLC
 Application for Authority 12/09/2019 - 12/09/2034
 Grant of Authority Date Effective: 12/09/2019

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION:

ANTENNA ID:	1	2.4 meters	AVL Technologies	2410
	11700.0000 - 12200.0000 MHz		36M0G7F	0.00 dBW
				Compressed Digital Video and Audio

14000.0000 - 14500.0000 MHz	4M00G7F	64.28 dBW	Compressed Digital Video and Audio
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Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20191024-01395	E E190898	WML Services, LLC	12/09/2019 - 12/09/2034
Application for Authority			Date Effective: 12/09/2019
Grant of Authority			

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION:

ANTENNA ID: 1	2.4 meters	AVL Technologies	2410
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11700.0000 - 12200.0000 MHz	36M0G7F	0.00 dBW	Compressed Digital Video and Audio
11700.0000 - 12200.0000 MHz	4M00G7F	0.00 dBW	Compressed Digital Video and Audio
14000.0000 - 14500.0000 MHz	36M0G7F	73.82 dBW	Compressed Digital Video and Audio
14000.0000 - 14500.0000 MHz	4M00G7F	64.28 dBW	Compressed Digital Video and Audio

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181005-03609	E E990277	Telesat Network Services, Inc.	10/19/2009 - 10/19/2024
Application for Modification			Date Effective: 12/03/2019
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1305 INDUSTRIAL PARK ROAD, SHENANDOAH, MT. JACKSON, VA
38 ° 43 ' 47.10 " N LAT. 78 ° 39 ' 29.30 " W LONG.

ANTENNA ID: 1	9 meters	VERTEX	9.0 KPC
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5925.0000 - 6425.0000 MHz	32M0G7D	80.00 dBW	QPSK 3/4 40,000 KBPS, DATA, VOICE AND FACSIMILE
5925.0000 - 6425.0000 MHz	36M0G7W	80.00 dBW	QPSK, VOICE, FACSIMILE, VIDEO AND DATA SERVICES
5925.0000 - 6425.0000 MHz	7M04G7W	75.00 dBW	QPSK, VOICE, FACSIMILE, VIDEO AND DATA SERVICES

5925.0000 - 6425.0000 MHz	1M80G7W	63.50 dBW	QPSK, VOICE, FACSIMILE, VIDEO AND DATA SERVICES
3700.0000 - 4200.0000 MHz	32M0G7D		QPSK 3/4 2, 500 KBPS, DATA
3700.0000 - 4200.0000 MHz	50K0G1W		DIGITAL SCPC CARRIER, QPSK
3700.0000 - 4200.0000 MHz	1M80G1W		DIGITAL SCPC CARRIER, QPSK
3700.0000 - 4200.0000 MHz	4M50G7W		QPSK, VOICE, FACSIMILE, VIDEO AND DATA SERVICES

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181030-03739 E E960427 GCI Communication Corp.
 Application for Modification 08/30/2019 - 08/30/2034
 Grant of Authority Date Effective: 12/03/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: PERRYVILLE, AK
 55 ° 54 ' 37.37 " N LAT. 159 ° 8 ' 40.53 " W LONG.

ANTENNA ID: 1	3.6 meters	VIASAT/SCIENTIFIC-ATLANTA	8136
5925.0000 - 6425.0000 MHz	108MG7W	71.92 dBW	Phase modulated voice, video, and data services.
3700.0000 - 4200.0000 MHz	108MG7W		Phase modulated voice, video, and data services.
5925.0000 - 6425.0000 MHz	45K0G7W-	53.71 dBW	Phase modulated voice, video, and data services.
5925.0000 - 6425.0000 MHz	45K0D7W-	53.71 dBW	Phase and amplitude modulated voice, video, and data services.
5925.0000 - 6425.0000 MHz	108MD7W	71.92 dBW	Phase and amplitude modulated voice, video, and data services.
3700.0000 - 4200.0000 MHz	45K0G7W-		Phase modulated voice, video, and data services.
3700.0000 - 4200.0000 MHz	45K0D7W-		Phase and amplitude modulated voice, video, and data services.
3700.0000 - 4200.0000 MHz	108MD7W		Phase and amplitude modulated voice, video, and data services.

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20181105-03445 E E950499 DG Consents Sub, Inc.
 Application for Modification 01/26/2006 - 01/26/2021
 Grant of Authority Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Earth Exploration Satellite Service

SITE ID: 1

LOCATION: 3 MILE, CHENA HOT SPRINGS ROAD, NORTH STAR, FAIRBANKS, AK
 64 ° 53 ' 26.00 " N LAT. 147 ° 31 ' 44.00 " W LONG.

ANTENNA ID:	1	7.3 meters	DATRON/TRANSCO	8300
8025.0000 - 8345.0000 MHz		370MG1D		QPSK, DATA
8393.9705 - 8394.0295 MHz		59K7G1D		QPSK, TELEMETRY
8385.9400 - 8386.0600 MHz		120KG1D		QPSK, TELEMETRY
8380.0000 - 8380.0000 MHz		5M80G7D		DIGITAL/TELEMETRY
8345.9680 - 8346.0320 MHz		64K0G1D		IMAGE DATA
8135.0000 - 8285.0000 MHz		150MG1D		QPSK, DATA
8030.0000 - 8030.0000 MHz		4M00G7D	0.00 dBW	Telemetry
8025.0000 - 8400.0000 MHz		375MG7D		DIGITAL/DATA/DOWNLINK
8025.0000 - 8345.0000 MHz		320MG7D	0.00 dBW	DATA
2094.8960 - 2096.0000 MHz		250KFXD	48.00 dBW	TT&C
2094.8960 - 2096.0000 MHz		1M32G1D	51.00 dBW	DIGITAL/TT&C
2092.6000 - 2092.6000 MHz		NON	51.00 dBW	UNMODULATED CARRIER
2092.6000 - 2092.6000 MHz		1M32G1D	51.00 dBW	BPSK (TT&C)
2085.6875 - 2085.6875 MHz		250KFXD	48.00 dBW	TT&C
2085.6875 - 2085.6875 MHz		1M32G1D	51.00 dBW	DIGITAL/TT&C
2052.0000 - 2052.0000 MHz		NON	51.00 dBW	UNMODULATED CARRIER
2052.0000 - 2052.0000 MHz		68K0G2D	51.00 dBW	BPSK (TT&C)
2052.0000 - 2052.0000 MHz		1M32G1D	51.00 dBW	BPSK (TT&C)

2042.0000 - 2043.0000 MHz	NON	51.00 dBW	UNMODULATED CARRIER
2042.0000 - 2043.0000 MHz	68K0G2D	51.00 dBW	BPSK (TT&C)
ANTENNA ID: 2	5.4 meters	VIASAT	V8X-Y
2094.8960 - 2096.8960 MHz	1M32G1D	53.60 dBW	DIGITAL/TT&C
2085.6875 - 2085.6875 MHz	1M32G1D	53.60 dBW	DIGITAL/TT&C
2092.6000 - 2092.6000 MHz	NON	53.60 dBW	UNMODULATED CARRIER
2092.6000 - 2092.6000 MHz	1M32G1D	53.60 dBW	BPSK (TT&C)
2052.0000 - 2052.0000 MHz	NON	53.60 dBW	UNMODULATED CARRIER
2042.0000 - 2043.0000 MHz	NON	53.60 dBW	UNMODULATED CARRIER
2094.8960 - 2095.8960 MHz	250KFXD	53.60 dBW	TT&C
2085.6875 - 2085.6875 MHz	250KFXD	53.60 dBW	TT&C
2052.0000 - 2052.0000 MHz	68K0G2D	53.60 dBW	BPSK (TT&C)
2052.0000 - 2052.0000 MHz	1M32G1D	53.60 dBW	BPSK (TT&C)
2042.0000 - 2043.0000 MHz	68K0G2D	53.60 dBW	BPSK (TT&C)
8393.9705 - 8394.0295 MHz	59K7G1D		QPSK, TELEMETRY
8385.9400 - 8386.0600 MHz	120KG1D		QPSK, TELEMETRY
8025.0000 - 8400.0000 MHz	375MG7D		DIGITAL/DATA/DOWNLINK
8345.9680 - 8346.0320 MHz	64K0G1D		IMAGE DATA
8380.0000 - 8380.0000 MHz	5M80G7D		DIGITAL/TELEMETRY
8135.0000 - 8285.0000 MHz	150MG1D		QPSK, DATA
8025.0000 - 8395.0000 MHz	370MG1D		QPSK, DATA
8030.0000 - 8030.0000 MHz	4M00G7D		Telemetry
8025.0000 - 8345.0000 MHz	320MG7D		DATA

Points of Communication:

1 - GeoEye 1 (S2348) - (NGSO)

1 - GeoEye 2 (S2348) - (NGSO)

1 - IKONOS (S2144) - (NGSO)

1 - QUICKBIRD 1 - (NGSO)

1 - WORLDVIEW-1(S2129) - (NGSO)

1 - WORLDVIEW-2(S2129) - (NGSO)

1 - WORLDVIEW-3 (S2129) - (NGSO)

SES-MOD-20190225-00191 E E910609 SpeedCast Communications Inc
Application for Modification
Withdrawn

11/29/2011 - 11/29/2026
Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: REMOTE -3
LOCATION: VSAT (1.5M.), CONUS, (30 UNITS)

ANTENNA ID:	REMOTE-3	1.5 meters	SEATEL	6092
	14000.0000 - 14500.0000 MHz	288KG7W	41.00 dBW	QPSK, VOICE & DATA
	14000.0000 - 14500.0000 MHz	438KG7W	40.80 dBW	QPSK, VOICE & DATA
	14000.0000 - 14500.0000 MHz	220KG7W	43.90 dBW	QPSK, VOICE & DATA
	11700.0000 - 12200.0000 MHz	288KG7W		QPSK, VOICE & DATA
	11700.0000 - 12200.0000 MHz	438KG7W		QPSK, VOICE & DATA
	11700.0000 - 12200.0000 MHz	220KG7W		QPSK, VOICE & DATA

SITE ID: REMOTE -4
LOCATION: 4400 SOUTH SAM HOUSTON PKWY. 1.0 M. VSAT, CONUS, (7 UNITS)

ANTENNA ID:	1.0M.	1 meters	SEATEL	4003
	14000.0000 - 14500.0000 MHz	438KG7D	44.90 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz	288KG7D	43.10 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz	220KG7D	41.90 dBW	DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	438KG7D		DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	288KG7D		DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	220KG7D		DIGITAL DATA CARRIER

SITE ID: REMOTE -5
LOCATION: 4400 SOUTH SAM HOUSTON PKWY. 1.2 M. VSAT, CONUS, (10 UNITS)

ANTENNA ID:	1.2M.	1.2 meters	SEATEL	4996
	14000.0000 - 14500.0000 MHz	438KG7D	44.90 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz	288KG7D	43.10 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz	220KG7D	41.90 dBW	DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	438KG7D		DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	288KG7D		DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	220KG7D		DIGITAL DATA CARRIER

SITE ID: REMOTE -6
LOCATION: 4400 SOUTH SAM HOUSTON PKWY. 2.4 M.-9797 VSAT, CONUS, (25 UNITS)

ANTENNA ID:	2.4M.-9797	2.4 meters	SEATEL	9797
	14000.0000 - 14500.0000 MHz	438KG7D	48.90 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz	288KG7D	47.10 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz	220KG7D	45.90 dBW	DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	438KG7D		DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	288KG7D		DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	220KG7D		DIGITAL DATA CARRIER

SITE ID: REMOTE -7
LOCATION: 4400 SOUTH SAM HOUSTON PKWY. 2.4 M.-9997 VSAT, CONUS, (5 UNITS)

ANTENNA ID:	2.4M.-9997	2.4 meters	SEATEL	9997
	14000.0000 - 14500.0000 MHz	438KG7D	52.90 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz	288KG7D	51.10 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz	220KG7D	49.90 dBW	DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	438KG7D		DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	288KG7D		DIGITAL DATA CARRIER
	11700.0000 - 12200.0000 MHz	220KG7D		DIGITAL DATA CARRIER

Points of Communication:

REMOTE -3 - PERMITTED LIST - ()

REMOTE -4 - PERMITTED LIST - ()

REMOTE -5 - PERMITTED LIST - ()

REMOTE -6 - PERMITTED LIST - ()

REMOTE -7 - PERMITTED LIST - ()

SES-REG-20180801-04094 E E190400 Towson University
Registration 08/01/2018 - 08/01/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1 Olympic Place Suite 100, Baltimore, Towson, MD
39 ° 23 ' 33.00 " N LAT. 76 ° 36 ' 24.00 " W LONG.

ANTENNA ID: 1 3 meters Patriot 3.0M
3700.0000 - 4200.0000 MHz 36M0G7W digital data: various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180816-03949 E E190257 ROBINSON CORPORATION
Registration 08/16/2018 - 08/16/2033
Grant of Authority Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID:
LOCATION: 132 NORTH PRAIRIE STREET, CRAWFORD, PRAIRIE DU CHIEN, WI
43 ° 3 ' 9.40 " N LAT. 91 ° 8 ' 51.00 " W LONG.

ANTENNA ID: 1 3.7 meters DH SATELLITE 37DH1
3700.0000 - 4200.0000 MHz 36M0G7W Digital Multiplex Carrier

Points of Communication:

- PERMITTED LIST - ()

SES-REG-20180816-04043 E E190349 Pensacola Christian College, Inc.
Registration 08/16/2018 - 08/16/2033
Grant of Authority Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: Channel 44 Road, Baldwin, Elsanor, AL
30 ° 35 ' 16.00 " N LAT.

87 ° 33 ' 13.00 " W LONG.

ANTENNA ID:	1	3 meters	GD SatCom	3.0M
	3700.0000 - 4200.0000 MHz		30K0G7W	Digital various FEC, data rates and modulation
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital various FEC, data rates and modulation
	3700.0000 - 4200.0000 MHz		30K0G3W	Digital / Analog carrier : various FEC, data rates and modulation
	3700.0000 - 4200.0000 MHz		36M0G3W	Digital / Analog carrier : various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180816-04053 E E190358 Pensacola Christian College, Inc.
Registration 08/16/2018 - 08/16/2033
Grant of Authority Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 32033 124th Street, Mille Lacs, Princeton, MN
45 ° 33 ' 10.00 " N LAT.

93 ° 34 ' 55.00 " W LONG.

ANTENNA ID:	1	3.8 meters	Patriot	380
	3700.0000 - 4200.0000 MHz		30K0G7W	Digital various FEC, data rates and modulation
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital various FEC, data rates and modulation
	3700.0000 - 4200.0000 MHz		30K0G3W	Digital / Analog carrier : various FEC, data rates and modulation
	3700.0000 - 4200.0000 MHz		36M0G3W	Digital / Analog carrier : various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 211 SE Caruthers, Suite 200, Multnomah, Portland, OR
45 ° 30 ' 22.10 " N LAT.

122 ° 39 ' 50.50 " W LONG.

ANTENNA ID:	1	3.8 meters	Dawnco	D38F60-6.6
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW
				Digital audio and video signals

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180820-03958	E	E190264	Hearst Properties Inc.	
Registration				08/20/2018 - 08/20/2033
Grant of Authority				Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1021 N. Wymore Road (WESH WKCF), Orange, Winter Park, FL
28 ° 36 ' 41.90 " N LAT.

81 ° 23 ' 8.60 " W LONG.

ANTENNA ID:	1	3.8 meters	Patriot	3.8 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	2	4.5 meters	Patriot	4.5 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	3	4.5 meters	Patriot	4.5 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	4	4.5 meters	Dawn Co	4.5 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	5	3.7 meters	Dawn Co	3.7 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	6	4.5 meters	EASI	4.5 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	7	3.7 meters	Prodelin	3.7 meter

3700.0000 - 4200.0000 MHz

36M0G7W

Digital video, audio, data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180820-03959 E E190265 Illiana Communications LLC

Registration

08/20/2018 - 08/20/2033

Grant of Authority

Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 399 Spelter Ave., Vermilion, Tilton, IL

40 ° 4 ' 36.89 " N LAT.

87 ° 38 ' 18.87 " W LONG.

ANTENNA ID: 1 2.8 meters Scientific Atlanta 9000

3700.0000 - 4200.0000 MHz

36M0G7W

Audio

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180820-03961 E E190267 ROBINSON CORPORATION

Registration

08/16/2018 - 08/16/2033

Grant of Authority

Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: E7601A CTH SS, VERNON, VIROQUA, WI

43 ° 32 ' 5.00 " N LAT.

90 ° 52 ' 25.00 " W LONG.

ANTENNA ID: 1 3 meters DH SATELLITE 30DH1

3700.0000 - 4200.0000 MHz

36M0G7W

Digital Multiplex Carrier

ANTENNA ID: 2 3.7 meters DH SATELLITE 37DH1

3700.0000 - 4200.0000 MHz

36M0G7W

Digital Multiplex Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180820-03962 E E190268 Hearst Properties Inc.
Registration 08/20/2018 - 08/20/2033
Grant of Authority Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 3010 Dill Rd (D#7) (WKCF), Orange, Bithlo, FL
28 ° 35 ' 13.40 " N LAT. 81 ° 4 ' 54.60 " W LONG.

ANTENNA ID: 1 4.5 meters EASI 4.5 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180820-03963 E E190269 Hearst Properties Inc.
Registration 08/20/2018 - 08/20/2033
Grant of Authority Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 4652 Brown Rd (WESH), Volusia, Christmas, FL
28 ° 36 ' 36.00 " N LAT. 81 ° 3 ' 32.80 " W LONG.

ANTENNA ID: 1 3.8 meters Patriot 3.8 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180821-04007 E E190313 Bible Broadcasting Network, Inc.
Registration 08/21/2018 - 08/21/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: Woodcliff Rd. Fitzgerald Mtn., Washington, Springdale, AR
36 ° 12 ' 13.70 " N LAT. 94 ° 6 ' 5.80 " W LONG.

ANTENNA ID: 1 3 meters Channel Master 6346-6969

3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital audio and data
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Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180821-04044	E	E190556	Community Radio Project	08/21/2018 - 08/21/2033
Registration				
Grant of Authority				Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 2 East Main Street, Montezuma, Cortez, CO
37 ° 20 ' 55.90 " N LAT. 108 ° 35 ' 13.70 " W LONG.

ANTENNA ID:	1	3.8 meters	Comtech	3.8M
3700.0000 - 4200.0000 MHz		30K0G7W		Digital traffic, various FEC, data rates and modulation
3700.0000 - 4200.0000 MHz		36M0G7W		Digital traffic, various FEC, data rates and modulation
3700.0000 - 4200.0000 MHz		36M0G3W		Digital / analog traffic, various FEC, data rates and modulation
3700.0000 - 4200.0000 MHz		30K0G3W		Digital / analog traffic, various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180821-04098	E	E190404	Youngstown State University/WYSU-FM	08/21/2018 - 08/21/2033
Registration				
Grant of Authority				Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 655 Wick Ave., Mahoning, Youngstown, OH
41 ° 6 ' 25.00 " N LAT. 80 ° 38 ' 36.14 " W LONG.

ANTENNA ID:	1	3.7 meters	General Dynamics	1374
3700.0000 - 4200.0000 MHz		36M0G7W		Program streams, file delivery

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180822-03971 E E190277 Emmis Radio License, LLC
 Registration 08/22/2018 - 08/22/2033
 Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 40 Monument Circle, Suite 400, Marion, Indianapolis, IN
 39 ° 46 ' 4.00 " N LAT. 86 ° 9 ' 32.00 " W LONG.

ANTENNA ID: 1	3.8 meters	Comtech	3.8M
3700.0000 - 4200.0000 MHz	30K0G7W	Digital traffic, various FEC, data rates and modulation	
3700.0000 - 4200.0000 MHz	36M0G7W	Digital traffic, various FEC, data rates and modulation	
3700.0000 - 4200.0000 MHz	36M0G3W	Digital / analog traffic, various FEC, data rates and modulation	
3700.0000 - 4200.0000 MHz	30K0G3W	Digital / analog traffic, various FEC, data rates and modulation	

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180822-03972 E E190278 Emmis Radio License, LLC
 Registration 08/22/2018 - 08/22/2033
 Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: Perry Worth Road, Boone, Whitestown, IN
 39 ° 57 ' 24.00 " N LAT. 86 ° 21 ' 35.00 " W LONG.

ANTENNA ID: 1	3.8 meters	Comtech	3.8M
3700.0000 - 4200.0000 MHz	30K0G7W	Digital traffic, various FEC, data rates and modulation	
3700.0000 - 4200.0000 MHz	36M0G7W	Digital traffic, various FEC, data rates and modulation	
3700.0000 - 4200.0000 MHz	36M0G3W	Digital / analog traffic, various FEC, data rates and modulation	

3700.0000 - 4200.0000 MHz

30K0G3W

Digital / analog traffic, various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180822-04006 E E190312 VCY America Inc

Registration

08/22/2018 - 08/22/2033

Grant of Authority

Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 2712 W. Vliet Street, Milwaukee, Milwaukee, WI

43 ° 2 ' 56.63 " N LAT.

87 ° 56 ' 54.34 " W LONG.

ANTENNA ID: 1

3.9 meters

Design Home

39

3700.0000 - 4200.0000 MHz

30M0G7W

Digital Audio

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180822-04008 E E190314 Bible Broadcasting Network, Inc.

Registration

08/22/2018 - 08/22/2033

Grant of Authority

Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1045 Steele Hill Rd., Tuscarawas, New Philadelphia, OH

40 ° 28 ' 58.20 " N LAT.

81 ° 28 ' 33.80 " W LONG.

ANTENNA ID: 1

3 meters

Prodelin

1304-990

3700.0000 - 4200.0000 MHz

36M0G7W

0.00 dBW

Digital audio and data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180822-04039 E E190345 Bible Broadcasting Network, Inc.

Registration

08/22/2018 - 08/22/2033

Grant of Authority

Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 370 Clifty Road, Franklin, Frankfort, KY
38 ° 12 ' 45.50 " N LAT. 84 ° 53 ' 6.90 " W LONG.

ANTENNA ID: 1 3 meters Channel Master 6346-6969
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital audio and data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180822-04045 E E190350 Bible Broadcasting Network, Inc.
Registration 08/22/2018 - 08/22/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1240 N. Thornton St., Curry, Clovis, NM
34 ° 26 ' 20.00 " N LAT. 103 ° 12 ' 40.20 " W LONG.

ANTENNA ID: 1 3 meters Channel Master 6346-6969
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital audio and data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180822-04046 E E190351 Bible Broadcasting Network, Inc.
Registration 08/22/2018 - 08/22/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 22476 Front St., Accomack, Accomac, VA
37 ° 43 ' 2.50 " N LAT. 75 ° 40 ' 58.30 " W LONG.

ANTENNA ID: 1 3 meters Prodelin 1304-990
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital audio and data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180822-04049 E E190354 Bible Broadcasting Network, Inc.
Registration 08/22/2018 - 08/22/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: Shady Grove Moss Rd. (MS17819-A), Jones, Laurel, MS
31 ° 46 ' 51.80 " N LAT. 89 ° 9 ' 35.80 " W LONG.

ANTENNA ID: 1 3 meters Channel Master 6346-6969
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital audio and data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180823-03983 E E190289 Hearst Properties Inc.
Registration 08/23/2018 - 08/23/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 7201 E. Hillsborough Ave. (WMOR-TV), Hillsborough, Tampa, FL
27 ° 59 ' 43.00 " N LAT. 82 ° 22 ' 26.30 " W LONG.

ANTENNA ID: 1 5 meters DH Satellite D50MAE
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 2 5 meters Comtech 5 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 3 3.8 meters Patriot PRT-380
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 4 3.8 meters Patriot PRT-380
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 5 4.5 meters Scientific Atlanta 8345
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 6 4 meters Universal 4 meter

3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 7	3.7 meters DH Satellite	D37P-MD
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
Points of Communication:		
1 - PERMITTED LIST - ()		
SES-REG-20180823-03984	E E190290 WYFF Hearst Television Inc.	08/23/2018 - 08/23/2033
Registration		Date Effective: 12/05/2019
Grant of Authority		
Class of Station:	Fixed Earth Stations	
Nature of Service:	Fixed Satellite Service	
SITE ID:	1	
LOCATION:	505 Hemlock Trail (WYFF), Greenville, Cleveland, SC 35 ° 6 ' 42.40 " N LAT.	82 ° 36 ' 22.40 " W LONG.
ANTENNA ID: 1	3.7 meters DH Satellite	3.7 meter
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
Points of Communication:		
1 - PERMITTED LIST - ()		
SES-REG-20180823-03985	E E190291 WYFF Hearst Television Inc.	08/23/2018 - 08/23/2033
Registration		Date Effective: 12/05/2019
Grant of Authority		
Class of Station:	Fixed Earth Stations	
Nature of Service:	Fixed Satellite Service	
SITE ID:	1	
LOCATION:	505 Rutherford Street (WYFF), Greenville, Greenville, SC 34 ° 51 ' 58.40 " N LAT.	82 ° 24 ' 17.60 " W LONG.
ANTENNA ID: 1	5 meters DH Satellite	5 meter
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 2	6.1 meters Vertex	6.1 KXC
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
SITE ID:	2	
LOCATION:	505 Rutherford Street (WYFF), Greenville, Greenville, SC 34 ° 51 ' 58.40 " N LAT.	82 ° 24 ' 20.80 " W LONG.

ANTENNA ID:	3	3.7 meters	DH Satellite	3.7 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	4	3 meters	DH Satellite	3 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	5	4.5 meters	Patriot	4.5 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data
ANTENNA ID:	6	3.7 meters	DH Satellite	3.7 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data

Points of Communication:

1 - PERMITTED LIST - ()

2 - PERMITTED LIST - ()

SES-REG-20180823-03986	E	E190292	Hearst Properties Inc.	
Registration				08/23/2018 - 08/23/2033
Grant of Authority				Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 3 Grandview Road (WMUR-TV), Hillsborough, Goffstown, NH
 42 ° 59 ' 0.90 " N LAT. 71 ° 35 ' 23.40 " W LONG.

ANTENNA ID:	1	3.8 meters	DH Satellite	3.8 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio, data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180823-03987	E	E190293	D&P Communications, Inc.	
Registration				08/15/2018 - 08/15/2033
Grant of Authority				Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 4200 Teal Rd., Michigan, Petersburg, MI
 41 ° 53 ' 16.89 " N LAT. 83 ° 42 ' 27.00 " W LONG.

ANTENNA ID: 1 4.5 meters S/A 8345
3720.0000 - 4200.0000 MHz 10M0G7W digital audio and video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180823-03988 E E190294 D&P Communications, Inc.
Registration 08/16/2018 - 08/16/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 4200 Teal Rd. 4200 Teal Rd., Michigan, Petersburg, MI
41 ° 53 ' 16.32 " N LAT. 83 ° 42 ' 26.75 " W LONG.

ANTENNA ID: 1 4.5 meters S/A 8345
3720.0000 - 4200.0000 MHz 10M0G7W digital audio and video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180823-03989 E E190295 D&P Communications, Inc.
Registration 08/16/2018 - 08/16/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 4200 Teal Rd. 4200 Teal Rd., Michigan, Petersburg, MI
41 ° 53 ' 14.89 " N LAT. 83 ° 42 ' 24.92 " W LONG.

ANTENNA ID: 1 4.5 meters S/A 8345
3720.0000 - 4200.0000 MHz 10M0G7W 0.00 dBW digital audio and video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180823-03990 E E190296 D&P Communications, Inc.
Registration 08/16/2018 - 08/16/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 4200 Teal Rd. 4200 Teal Rd., Michigan, Petersburg, MI
41 ° 53 ' 14.89 " N LAT. 83 ° 42 ' 24.92 " W LONG.

ANTENNA ID: 1 4.5 meters S/A 8345
3720.0000 - 4200.0000 MHz 10M0G7W 0.00 dBW digital audio and video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180823-03991 E E190297 D&P Communications, Inc.
Registration 08/16/2018 - 08/16/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 4200 Teal Rd. 4200 Teal Rd., Michigan, Petersburg, MI
41 ° 53 ' 14.89 " N LAT. 83 ° 42 ' 24.92 " W LONG.

ANTENNA ID: 1 4.5 meters DH Antenna 8345
3720.0000 - 4200.0000 MHz 10M0G7W 0.00 dBW digital audio and video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180823-03993 E E190299 D&P Communications, Inc.
Registration 08/16/2018 - 08/16/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 4200 Teal Rd. 4200 Teal Rd., Michigan, Petersburg, MI
41 ° 53 ' 14.89 " N LAT. 83 ° 42 ' 24.92 " W LONG.

ANTENNA ID: 1 3.8 meters patroit AZe1
3720.0000 - 4200.0000 MHz 10M0G7W 0.00 dBW digital audio and video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180823-03994 E E190304 D&P Communications, Inc.
Registration 08/17/2018 - 08/17/2033
Grant of Authority Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 4200 Teal Rd. 4200 Teal Rd., Monroe, Petersburg, MI
41 ° 53 ' 14.89 " N LAT. 83 ° 42 ' 24.92 " W LONG.

ANTENNA ID: 1 5 meters D/H 934D0015.G2
3720.0000 - 4200.0000 MHz 10M0G7W digital audio and video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180824-03997 E E190301 WISN Hearst Television Inc.
Registration 08/24/2018 - 08/24/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 5201 N Milwaukee River Parkway (WISN-TV), Milwaukee, Milwaukee, WI
43 ° 6 ' 42.10 " N LAT. 87 ° 55 ' 43.70 " W LONG.

ANTENNA ID: 1 7.3 meters Andrew ESA73-46
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180824-03998 E E190302 WISN Hearst Television Inc.
Registration 08/24/2018 - 08/24/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 759 N. 19th Street (WISN-TV), Milwaukee, Milwaukee, WI
43 ° 2 ' 23.70 " N LAT. 87 ° 56 ' 14.20 " W LONG.

ANTENNA ID: 1 5.5 meters SatCom 551CF

3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 2	4.5 meters ViaSat	8345
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 3	4.5 meters ViaSat	8345
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 4	4.5 meters ViaSat	8345
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 5	4.5 meters Andrew	ESA45-4A
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 6	4.5 meters Andrew	ESA45-4A
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data

SITE ID: 2
LOCATION: 759 N. 19th Street (WISN-TV), Milwaukee, Milwaukee, WI
43 ° 2 ' 24.40 " N LAT.

87 ° 56 ' 17.10 " W LONG.

ANTENNA ID: 7	3.7 meters DH Satellite	3.7 meter
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 8	3.7 meters DH Satellite	3.7 meter
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 9	3.7 meters DH Satellite	3.7 meter
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data
ANTENNA ID: 10	3.7 meters DH Satellite	3.7 meter
3700.0000 - 4200.0000 MHz	36M0G7W	Digital video, audio, data

Points of Communication:

- 1 - PERMITTED LIST - ()
- 2 - PERMITTED LIST - ()

SES-REG-20180824-04000 E E190306 Gray Television Licensee, LLC
Registration
Grant of Authority

08/24/2018 - 08/24/2033
Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 4141 East 29th Street, Bryan, TX
30 ° 38 ' 34.07 " N LAT. 96 ° 19 ' 50.03 " W LONG.

ANTENNA ID:	1	6 meters	Scientific Atlanta	8010CM
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	2	4.5 meters	Scientific Atlanta	8346
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	3	4.6 meters	Scientific Atlanta	8346
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	4	3.8 meters	Andrew	3.8 Meter Azimuth
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	5	4.6 meters	Andrew	4.6 Meter Steerable
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	6	4.6 meters	Andrew	4.6 Meter Steerable
	3700.0000 - 4200.0000 MHz		36M0G7W	

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180824-04009	E E190315	University of Central Missouri	08/24/2018 - 08/24/2033
Registration			Date Effective: 12/05/2019
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 203 East Clark St., Johnson, Warrensburg, MO
38 ° 45 ' 20.80 " N LAT. 93 ° 45 ' 19.10 " W LONG.

ANTENNA ID:	1	5 meters	Comtech Antenna Systems Inc.	5 Meter
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW
				Digital Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180827-04004 E E190310 Comcast Cable Communications Management, LLC
Registration 08/10/2018 - 08/10/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 8251 N Cortaro Rd, Pima, Tucson, AZ
32 ° 21 ' 26.60 " N LAT. 111 ° 5 ' 38.00 " W LONG.

ANTENNA ID: 1 3.8 meters Patriot Motorized Patriot
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180827-04005 E E190311 Comcast Cable Communications Management, LLC
Registration 08/10/2018 - 08/10/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1808 S. 1st St., Logan, Tucumcari, NM
35 ° 9 ' 41.00 " N LAT. 103 ° 43 ' 27.00 " W LONG.

ANTENNA ID: 1 4 meters Comtech 4 Meters
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

ANTENNA ID: 2 4 meters Andrews 4 Meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

ANTENNA ID: 3 4 meters Casigrain 4 Meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

ANTENNA ID: 4 4 meters Patriot 4 Meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180827-04102 E E190408 Entravision Holdings, LLC
Registration 08/27/2018 - 08/27/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 5770 Ruffin Rd., San Diego, San Diego, CA
32 ° 50 ' 19.90 " N LAT. 117 ° 7 ' 39.40 " W LONG.

ANTENNA ID:	1	4.2 meters	DH Satellite	DH42	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video
ANTENNA ID:	2	3 meters	Patriot	3.0	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video
ANTENNA ID:	3	4.5 meters	DH Satellite	MT Series	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video
ANTENNA ID:	4	4.8 meters	DH Satellite	DH48	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video
ANTENNA ID:	5	3.7 meters	Prodelin	1374	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180827-04103 E E190409 Entravision Holdings, LLC
Registration 08/27/2018 - 08/27/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 21575 FM 1314, Montgomery, Porter, TX
30 ° 8 ' 22.20 " N LAT. 95 ° 17 ' 24.20 " W LONG.

ANTENNA ID:	1	3.7 meters	Prodelin	1374	
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW	Digital Data/Digital Audio

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180827-04105 E E190411 Entravision Holdings, LLC
Registration 08/27/2018 - 08/27/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 5426 N. Mesa, El Paso, El Paso, TX
31 ° 49 ' 12.10 " N LAT.

106 ° 31 ' 0.00 " W LONG.

ANTENNA ID:	1	4.5 meters	Scientific Atlanta	8345
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video
ANTENNA ID:	2	3.7 meters	Prodelin	1374
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video
ANTENNA ID:	3	3.7 meters	Harris	6712
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video
ANTENNA ID:	4	4.5 meters	DH Satellite	4.5 m
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Data/Digital Audio/Digital Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180828-04109 E E190415 Centennial Licensing II, LLC
Registration 08/28/2018 - 08/28/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1914 Mimosa St., Stafford, Fredericksburg, VA
38 ° 16 ' 50.00 " N LAT.

77 ° 26 ' 10.00 " W LONG.

ANTENNA ID:	1	3.8 meters	Comtech Antenna Systems	3.8 METER PF
	3700.0000 - 4200.0000 MHz	36M0G7W		Digital

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180829-04012 E E190318 Detroit Classical and Jazz Educational Radio LLC
Registration 08/29/2018 - 08/29/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 20931 Meyers, Oakland, Oak Park, MI
42 ° 26 ' 51.40 " N LAT. 83 ° 10 ' 21.10 " W LONG.

ANTENNA ID: 1 3.7 meters DH Satellite DH-37AE
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Video, Audio, and Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180829-04051 E E190356 University of Indianapolis
Registration 08/29/2018 - 08/29/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1400 E Hanna Ave, Marion, Indianapolis, IN
39 ° 42 ' 31.90 " N LAT. 86 ° 8 ' 7.20 " W LONG.

ANTENNA ID: 1 3.8 meters DH 3.8 meter
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Audio

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180830-04054 E E190359 Eastern Florida State College
Registration 08/30/2018 - 08/30/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1519 Clearlake Rd., Brevard, Cocoa, FL
28 ° 23 ' 1.00 " N LAT. 80 ° 45 ' 33.10 " W LONG.

ANTENNA ID: 1 5 meters DH 50DH1

3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Video
ANTENNA ID: 2	3 meters	DH	30DH1
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Video
Points of Communication:			
1 - PERMITTED LIST - ()			
SES-REG-20180904-04182	E E190499	Pittsford Educational Broadcasting Foundation	
Registration			09/04/2018 - 09/04/2033
Grant of Authority			Date Effective: 12/05/2019
Class of Station:	Fixed Earth Stations		
Nature of Service:	Fixed Satellite Service		
SITE ID:	1		
LOCATION:	9400 Beecher Rd, Hillsdale, Hillsdale, MI		
	41 ° 53 ' 12.60 " N LAT.		84 ° 28 ' 12.40 " W LONG.
ANTENNA ID: 1	3.8 meters	Patriot	3.8 meter
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Audio
Points of Communication:			
1 - PERMITTED LIST - ()			
SES-REG-20180905-04196	E E190514	Scripps Broadcasting Holdings LLC	
Registration			09/05/2018 - 09/05/2033
Grant of Authority			Date Effective: 12/05/2019
Class of Station:	Fixed Earth Stations		
Nature of Service:	Fixed Satellite Service		
SITE ID:	1		
LOCATION:	515 N. 44th Street, Maricopa, Phoenix, AZ		
	33 ° 27 ' 13.40 " N LAT.		111 ° 59 ' 0.80 " W LONG.
ANTENNA ID: 1	4.5 meters	Andrew Corporation	ESA-45-46A
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier
ANTENNA ID: 2	6.1 meters	Vertex	6.1M
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier
ANTENNA ID: 3	4.5 meters	Patriot	PRT-450
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier

ANTENNA ID: 4	4.6 meters	Vertex	4.6M
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180905-04197	E E190515	Scripps Broadcasting Holdings LLC	09/05/2018 - 09/05/2033
Registration			Date Effective:
Grant of Authority			12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 4600 Air Way, San Diego, San Diego, CA
32 ° 43 ' 11.50 " N LAT. 117 ° 5 ' 54.20 " W LONG.

ANTENNA ID: 1	3 meters	DH Satellite	30DH1
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180905-04198	E E190516	Gray Television Licensee, LLC	09/05/2018 - 09/05/2033
Registration			Date Effective:
Grant of Authority			12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 141 Progress Circle, Mills, WY
42 ° 50 ' 59.91 " N LAT. 106 ° 21 ' 47.49 " W LONG.

ANTENNA ID: 1	4.2 meters	DH Satellite	DawnCo DH42P
3700.0000 - 4200.0000 MHz	36M0G7W		

ANTENNA ID: 2	3.7 meters	DH Satellite	DawnCo DH37P
3700.0000 - 4200.0000 MHz	36M0G7W		

ANTENNA ID: 3	5 meters	DH Satellite	5M
3700.0000 - 4200.0000 MHz	36M0G7W		

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180905-04199 E E190517 Scripps Broadcasting Holdings LLC
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 3355 S. Valley View Blvd., Clark, Las Vegas, NV
36 ° 7 ' 43.30 " N LAT. 115 ° 11 ' 26.80 " W LONG.

ANTENNA ID:	1	3.8 meters	Prime Focus	380CS-R
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier
ANTENNA ID:	2	3.7 meters	DH Satellite	3.7M
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier
ANTENNA ID:	3	3.1 meters	Patriot	PRT-310
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier
ANTENNA ID:	4	3.7 meters	Prime Focus	370CS-R
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier
ANTENNA ID:	5	2.7 meters	Yoohon	C270C-1
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier
ANTENNA ID:	6	3 meters	Prime Focus	300CS-R
	3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Digital Multiplex Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180905-04200 E E190518 Scripps Broadcasting Holdings LLC
Registration 09/05/2018 - 09/05/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1330 N. Meridian St., Marion, Indianapolis, IN
39 ° 47 ' 6.00 " N LAT. 86 ° 9 ' 31.20 " W LONG.

ANTENNA ID:	1	5.5 meters	SatCom	5.5M
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW
				Digital Multiplex Carrier
ANTENNA ID:	2	3.1 meters	DH Satellite	3.1M
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW
				Digital Multiplex Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180906-04213	E	E190533	WCNC-TV, Inc	
Registration				09/06/2018 - 09/06/2033
Grant of Authority				Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1001 Wood Ridge Center Drive, Mecklenburg, Charlotte, NC
35 ° 11 ' 9.40 " N LAT. 80 ° 53 ' 49.40 " W LONG.

ANTENNA ID:	1	4.5 meters	Andrew	ESA45-4A
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	2	3.7 meters	Andrew	ESA37-114A
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	3	4.5 meters	Scientific Atlanta	8345
	3700.0000 - 4200.0000 MHz		36M0G7W	
ANTENNA ID:	4	2.4 meters	Andrew	ES24M
	3700.0000 - 4200.0000 MHz		36M0G7W	

SITE ID: 2
LOCATION: 1001 Wood Ridge Center Drive, Mecklenburg, Charlotte, NC
35 ° 20 ' 49.40 " N LAT. 81 ° 10 ' 14.20 " W LONG.

ANTENNA ID:	5	3.7 meters	COMMSCOPE	ESA37
	3700.0000 - 4200.0000 MHz		36M0G7W	

Points of Communication:

1 - PERMITTED LIST - ()

2 - PERMITTED LIST - ()

SES-REG-20180906-04216 E E190536 Scripps Broadcasting Holdings LLC
Registration 09/06/2018 - 09/06/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 15001 Boyette Road, Hillsborough, Riverview, FL
27 ° 50 ' 32.50 " N LAT. 82 ° 15 ' 47.20 " W LONG.

ANTENNA ID: 1 7.3 meters Andrew Corporation ESA73-46
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Multiplex Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180906-04219 E E190539 Scripps Broadcasting Holdings LLC
Registration 09/06/2018 - 09/06/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 600 West Saint Joseph St., Ingham, Lansing, MI
42 ° 43 ' 37.20 " N LAT. 84 ° 33 ' 40.40 " W LONG.

ANTENNA ID: 1 3.8 meters Comtech 3.8 Meter PF
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Multiplex Carrier

ANTENNA ID: 2 3.8 meters Patriot PRT-380
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Multiplex Carrier

ANTENNA ID: 3 3.7 meters DH Satellite 3.7M
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Multiplex Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180906-04220 E E190540 Scripps Broadcasting Holdings LLC
Registration 09/06/2018 - 09/06/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 6400 York Rd., Baltimore, Baltimore, MD

39 ° 22 ' 24.50 " N LAT.

76 ° 36 ' 36.80 " W LONG.

ANTENNA ID: 1 4.5 meters Andrew 4.5M

3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Multiplex Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180911-04316 E E190635 Hearst Properties Inc.

Registration

09/11/2018 - 09/11/2033

Grant of Authority

Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1300 Columbia Avenue (WGAL), Lancaster, Lancaster, PA

40 ° 2 ' 12.40 " N LAT.

76 ° 20 ' 19.40 " W LONG.

ANTENNA ID: 1 5 meters Scientific Atlanta 5 meter

3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 2 4.5 meters Scientific Atlanta 4.5 meter

3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 3 3 meters Harris 3 meter

3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 4 8.8 meters Harris 8.8 meter

3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 5 3.6 meters RCA Americom 3.6 meter

3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 6 3.8 meters Patriot 3.8 meter

3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio, data

ANTENNA ID: 7 3.1 meters Patriot 3.1 meter

3700.0000 - 4200.0000 MHz

36M0G7W

Digital video, audio, data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180911-04317 E E190636 Hearst Properties Inc.

Registration

09/11/2018 - 09/11/2033

Grant of Authority

Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1320 Tower Road (WGAL), York, Hellam, PA

40 ° 2 ' 4.70 " N LAT.

76 ° 37 ' 7.90 " W LONG.

ANTENNA ID: 1

3 meters

Odom Antennas

3 meter

3700.0000 - 4200.0000 MHz

36M0G7W

Digital video, audio, data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180913-04343 E E190667 Gray Television Licensee, LLC

Registration

09/13/2018 - 09/13/2033

Grant of Authority

Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1400 Oliver Rd., Monroe, LA

32 ° 31 ' 29.20 " N LAT.

92 ° 6 ' 7.59 " W LONG.

ANTENNA ID: 1

7 meters

Scientific Atlanta

7m

3700.0000 - 4200.0000 MHz

36M0G7F

ANTENNA ID: 2

4.5 meters

Scientific Atlanta

4.5m

3700.0000 - 4200.0000 MHz

36M0G7F

ANTENNA ID: 3

4.5 meters

Andrew

4.5m

3700.0000 - 4200.0000 MHz

36M0G7F

ANTENNA ID: 4

3.8 meters

DH Satellite

3.8m

3700.0000 - 4200.0000 MHz

36M0G7F

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 2600 Shea St., Laredo, TX
27 ° 31 ' 11.83 " N LAT. 99 ° 31 ' 16.75 " W LONG.

ANTENNA ID: 1 4.5 meters DH 4.5m

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: 2 5 meters AFC PR16

3700.0000 - 4200.0000 MHz 36M0G7W

ANTENNA ID: 3 4.2 meters DH 4.2m

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180914-04348 E E190672 Mediacom Communications Corporation
Registration 09/14/2018 - 09/14/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 94 Larson Street, Monroe, Cashton, WI
43 ° 44 ' 21.90 " N LAT. 90 ° 47 ' 34.80 " W LONG.

ANTENNA ID: 1 3.8 meters DH Gibraltar

3700.0000 - 4200.0000 MHz 36M0G7D Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180914-04349 E E190673 LAA 1, LLC
Registration 09/14/2018 - 09/14/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 2000 Gene Autry Way, Orange, Anaheim, CA
33 ° 47 ' 58.70 " N LAT. 117 ° 52 ' 53.10 " W LONG.

ANTENNA ID: 1 3.8 meters Challenger 3.8m
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital video and data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180914-04351 E E190675 NBC Telemundo License LLC
Registration 09/14/2018 - 09/14/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 2200 Fletcher Avenue, BERGEN, Fort Lee, NJ
40 ° 51 ' 36.00 " N LAT. 73 ° 58 ' 12.00 " W LONG.

ANTENNA ID: 1 3.7 meters DH Satellite D37F48-4PC-5.5
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio and data on phase modulated carriers

SITE ID: 2
LOCATION: 2200 Fletcher Avenue, Bergen, Fort Lee, NJ
40 ° 51 ' 36.00 " N LAT. 73 ° 58 ' 12.00 " W LONG.

ANTENNA ID: 2 4.8 meters Andrew 4.8 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio and data on phase modulated carriers

Points of Communication:

1 - PERMITTED LIST - ()

2 - PERMITTED LIST - ()

SES-REG-20180918-04423 E E190763 Corporation of the Presiding Bishop of The Church of Jesus Christ of Latter-day
Registration 09/18/2018 - 09/18/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 108 New Braintree Road, NORTH BROOKFIELD, MA
42 ° 17 ' 57.34 " N LAT. 72 ° 5 ' 29.97 " W LONG.

ANTENNA ID: 1 3.4 meters General Dynamics Satcom 1344

SITE ID: 8
LOCATION: 376 Maple Street, SPRINGFIELD, MA
42 ° 5 ' 41.46 " N LAT. 72 ° 34 ' 25.89 " W LONG.

ANTENNA ID: 8 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 9
LOCATION: 120 Stemmers Run Road, BALTIMORE, MD
39 ° 19 ' 20.33 " N LAT. 76 ° 27 ' 20.91 " W LONG.

ANTENNA ID: 9 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 10
LOCATION: 1875 Ritchie Highway, ANNAPOLIS, MD
39 ° 0 ' 8.91 " N LAT. 76 ° 28 ' 54.24 " W LONG.

ANTENNA ID: 10 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 11
LOCATION: 22747 Old Rolling Rd, LEXINGTON PARK, MD
38 ° 17 ' 30.37 " N LAT. 76 ° 30 ' 43.22 " W LONG.

ANTENNA ID: 11 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 12
LOCATION: 1400 Dulaney Valley Road, LUTHERVILLE, MD
39 ° 25 ' 31.83 " N LAT. 76 ° 35 ' 51.33 " W LONG.

ANTENNA ID: 12 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 13
LOCATION: 2810 Emmorton Road, ABINGDON, MD
39 ° 28 ' 55.23 " N LAT. 76 ° 18 ' 47.52 " W LONG.

ANTENNA ID: 13 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 14
LOCATION: 409 5th Avenue Southeast, GLEN BURNIE, MD
39 ° 9 ' 25.40 " N LAT. 76 ° 37 ' 18.32 " W LONG.

SITE ID: 21
LOCATION: 3601 Southern Avenue, SUITLAND, MD
38 ° 51 ' 29.63 " N LAT. 76 ° 57 ' 11.63 " W LONG.

ANTENNA ID: 21 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 22
LOCATION: 6020 Ten Oaks Road, CLARKSVILLE, MD
39 ° 12 ' 19.04 " N LAT. 76 ° 57 ' 23.93 " W LONG.

ANTENNA ID: 22 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 23
LOCATION: 4560 Padgett Road, WHITE PLAINS, MD
38 ° 35 ' 18.06 " N LAT. 76 ° 57 ' 39.42 " W LONG.

ANTENNA ID: 23 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 24
LOCATION: 5300 Auth Road, CAMP SPRINGS, MD
38 ° 49 ' 24.81 " N LAT. 76 ° 54 ' 57.67 " W LONG.

ANTENNA ID: 24 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 25
LOCATION: 9900 Stoneybrook Drive, KENSINGTON, MD
39 ° 0 ' 57.14 " N LAT. 77 ° 3 ' 52.45 " W LONG.

ANTENNA ID: 25 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 26
LOCATION: 11700 Falls Road, POTOMAC, MD
39 ° 2 ' 50.00 " N LAT. 77 ° 11 ' 30.36 " W LONG.

ANTENNA ID: 26 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 27
LOCATION: 20020 Montgomery Village Avenue, MONTGOMERY VILLAGE, MD
39 ° 11 ' 11.82 " N LAT. 77 ° 11 ' 56.46 " W LONG.

SITE ID: 34
LOCATION: 180 Court Street, MACHIAS, ME
44 ° 42 ' 46.77 " N LAT. 67 ° 28 ' 4.17 " W LONG.

ANTENNA ID: 34 3.4 meters GENERAL DYNAMICS Satcom 1344

3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 35
LOCATION: 199 North Place, FREDERICK, MD
39 ° 24 ' 46.06 " N LAT. 77 ° 25 ' 59.88 " W LONG.

ANTENNA ID: 35 3.4 meters GENERAL DYNAMICS Satcom 1344

3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 36
LOCATION: 67 Paris Snow Drive, CARIBOU, ME
46 ° 50 ' 55.77 " N LAT. 68 ° 1 ' 3.44 " W LONG.

ANTENNA ID: 36 3.4 meters GENERAL DYNAMICS Satcom 1344

3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 37
LOCATION: 130 Beechland Rd, ELLSWORTH, ME
44 ° 31 ' 9.17 " N LAT. 68 ° 23 ' 58.70 " W LONG.

ANTENNA ID: 37 3.4 meters GENERAL DYNAMICS Satcom 1344

3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 38
LOCATION: 144 Penobscot Valley Avenue, LINCOLN, ME
45 ° 20 ' 58.81 " N LAT. 68 ° 31 ' 8.66 " W LONG.

ANTENNA ID: 38 3.4 meters GENERAL DYNAMICS Satcom 1344

3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 39
LOCATION: 639 Grandview Avenue, BANGOR, ME
44 ° 49 ' 44.82 " N LAT. 68 ° 46 ' 19.72 " W LONG.

ANTENNA ID: 39 3.4 meters GENERAL DYNAMICS Satcom 1344

3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 40
LOCATION: 297 Belmont Avenue, BELFAST, ME
44 ° 24 ' 40.71 " N LAT. 69 ° 4 ' 30.80 " W LONG.

SITE ID: 47
LOCATION: 660 Bangor Road, DOVER-FOXCROFT, ME
45 ° 9 ' 55.08 " N LAT. 69 ° 11 ' 6.72 " W LONG.

ANTENNA ID: 47 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 48
LOCATION: 29 Ocean House Road, CAPE ELIZABETH, ME
43 ° 37 ' 9.91 " N LAT. 70 ° 14 ' 53.89 " W LONG.

ANTENNA ID: 48 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 49
LOCATION: 545 Maple Hill Road, AUBURN, ME
44 ° 10 ' 39.43 " N LAT. 70 ° 15 ' 9.16 " W LONG.

ANTENNA ID: 49 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

SITE ID: 50
LOCATION: 247 Walnut Hill Road, NORTH YARMOUTH, ME
43 ° 49 ' 2.60 " N LAT. 70 ° 14 ' 20.14 " W LONG.

ANTENNA ID: 50 3.4 meters GENERAL DYNAMICS Satcom 1344
3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

- 1 - PERMITTED LIST - ()
- 10 - PERMITTED LIST - ()
- 11 - PERMITTED LIST - ()
- 12 - PERMITTED LIST - ()
- 13 - PERMITTED LIST - ()
- 14 - PERMITTED LIST - ()
- 15 - PERMITTED LIST - ()
- 16 - PERMITTED LIST - ()
- 17 - PERMITTED LIST - ()
- 18 - PERMITTED LIST - ()
- 19 - PERMITTED LIST - ()

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- 2 - PERMITTED LIST - ()
 - 20 - PERMITTED LIST - ()
 - 21 - PERMITTED LIST - ()
 - 22 - PERMITTED LIST - ()
 - 23 - PERMITTED LIST - ()
 - 24 - PERMITTED LIST - ()
 - 25 - PERMITTED LIST - ()
 - 26 - PERMITTED LIST - ()
 - 27 - PERMITTED LIST - ()
 - 28 - PERMITTED LIST - ()
 - 29 - PERMITTED LIST - ()
 - 3 - PERMITTED LIST - ()
 - 30 - PERMITTED LIST - ()
 - 31 - PERMITTED LIST - ()
 - 32 - PERMITTED LIST - ()
 - 33 - PERMITTED LIST - ()
 - 34 - PERMITTED LIST - ()
 - 35 - PERMITTED LIST - ()
 - 36 - PERMITTED LIST - ()
 - 37 - PERMITTED LIST - ()
 - 38 - PERMITTED LIST - ()
 - 39 - PERMITTED LIST - ()
 - 4 - PERMITTED LIST - ()
 - 40 - PERMITTED LIST - ()
 - 41 - PERMITTED LIST - ()
 - 42 - PERMITTED LIST - ()
 - 43 - PERMITTED LIST - ()
 - 44 - PERMITTED LIST - ()
 - 45 - PERMITTED LIST - ()
 - 46 - PERMITTED LIST - ()

- 47 - PERMITTED LIST - ()
- 48 - PERMITTED LIST - ()
- 49 - PERMITTED LIST - ()
- 5 - PERMITTED LIST - ()
- 50 - PERMITTED LIST - ()
- 6 - PERMITTED LIST - ()
- 7 - PERMITTED LIST - ()
- 8 - PERMITTED LIST - ()
- 9 - PERMITTED LIST - ()

SES-REG-20180918-04427 E E190767 Sports Radio Chicago, LLC
 Registration 09/07/2018 - 09/07/2033
 Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 100 39th Street, Dupage, Downers Grove, IL
 41 ° 49 ' 2.40 " N LAT. 87 ° 59 ' 16.10 " W LONG.

ANTENNA ID:	1	3.8 meters	Dawnco	D38P-4Pc
	3700.0000 - 4200.0000 MHz		3M50G7W	Digital Programming and Data
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Programming and Data

Points of Communication:

- 1 - PERMITTED LIST - ()

SES-REG-20180919-04405 E E190743 Mediacom Communications Corporation
 Registration 09/19/2018 - 09/19/2033
 Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 905 Saint Joseph St., Hancock, Waveland, MS
 30 ° 17 ' 49.90 " N LAT. 89 ° 22 ' 39.40 " W LONG.

ANTENNA ID:	1	3.8 meters	DH	Gibraltar
	3700.0000 - 4200.0000 MHz		36M0G7D	Video

3700.0000 - 4200.0000 MHz	36M0G7D	Video
ANTENNA ID: 4	4 meters	Scientific Atlanta
		N/A
3700.0000 - 4200.0000 MHz	36M0G7D	Video
ANTENNA ID: 5	3 meters	Channel Master
		N/A
3700.0000 - 4200.0000 MHz	36M0G7D	Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180919-04440	E E190781	Eagle Communications Inc	09/19/2018 - 09/19/2033
Registration			Date Effective: 12/04/2019
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 7576 Rabbit Run Rd., Riley, Riley, KS
39 ° 18 ' 19.46 " N LAT. 96 ° 49 ' 57.60 " W LONG.

ANTENNA ID: 1	3.8 meters	Patriot	N/A
3700.0000 - 4200.0000 MHz	36M0G7D	Video	
ANTENNA ID: 2	4 meters	Scientific Atlanta	N/A
3700.0000 - 4200.0000 MHz	36M0G7D	Video	
ANTENNA ID: 3	3.8 meters	Prodelin	N/A
3700.0000 - 4200.0000 MHz	36M0G7D	Video	

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180919-04441	E E190782	Heritage Broadcasting Company of Michigan	09/19/2018 - 09/19/2033
Registration			Date Effective: 12/04/2019
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 8684 Mackinaw Trail, Wexford, Cadillac, MI
44 ° 12 ' 47.00 " N LAT. 85 ° 24 ' 25.00 " W LONG.

ANTENNA ID:	1	3.7 meters	Prodelin Corporation	136-750
		3700.0000 - 4200.0000 MHz	36M0G7W	Digital Audio and Video
ANTENNA ID:	2	3.8 meters	Prodelin Corporation	1380
		3700.0000 - 4200.0000 MHz	36M0G7W	Digital Audio and Video
ANTENNA ID:	3	3.8 meters	DH	3.8 METER
		3700.0000 - 4200.0000 MHz	36M0G7W	Digital Audio and Video
ANTENNA ID:	4	4.5 meters	DH	4.5 METER
		3700.0000 - 4200.0000 MHz	36M0G7W	Digital Audio and Video
ANTENNA ID:	5	4.5 meters	Andrew Corporation	ESA45-46
		3700.0000 - 4200.0000 MHz	36M0G7W	Digital Audio and Video

SITE ID: 2
LOCATION: 22320 130th Avenue, Osceola, Tustin, MI
44 ° 8 ' 12.00 " N LAT. 85 ° 20 ' 33.00 " W LONG.

ANTENNA ID:	6	5 meters	DH	5.0 METER
		3700.0000 - 4200.0000 MHz	36M0G7W	Digital Audio and Video

Points of Communication:

- 1 - PERMITTED LIST - ()
- 2 - PERMITTED LIST - ()

SES-REG-20180919-04445 E E190786 Eagle Communications Inc
Registration 09/19/2018 - 09/19/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1627 1130th St., Decatur, Oberlin, KS
39 ° 48 ' 12.64 " N LAT. 100 ° 31 ' 42.58 " W LONG.

ANTENNA ID:	1	3 meters	Channel Master	N/A
		3700.0000 - 4200.0000 MHz	36M0G7D	Video
ANTENNA ID:	2	3 meters	Patriot	N/A
		3700.0000 - 4200.0000 MHz	36M0G7D	Video

ANTENNA ID:	3	3.8 meters	Prodelin	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	4	3.8 meters	Patriot	PRT-380
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	5	4.6 meters	Fort Worth	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	6	3.2 meters	Scientific Atlanta	9000
	3700.0000 - 4200.0000 MHz		36M0G7D	Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180919-04446	E	E190787	KTTC License, LLC	
Registration				09/19/2018 - 09/19/2033
Grant of Authority				Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: KTTC Television 6301 Bandel Road NW, Olmstead, Rochester, MN
 44 ° 5 ' 31.10 " N LAT. 92 ° 30 ' 36.10 " W LONG.

ANTENNA ID:	1	4.5 meters	Andrew	ESA45-46A
	3700.0000 - 4200.0000 MHz		36M0F8F	Analog TV Video
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
ANTENNA ID:	2	3.8 meters	Patriot	PRT-380
	3700.0000 - 4200.0000 MHz		36M0F8F	Analog TV Video
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
ANTENNA ID:	3	3.8 meters	Patriot	PRT-380
	3700.0000 - 4200.0000 MHz		36M0F8F	Analog TV Video
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
ANTENNA ID:	4	3.8 meters	Comtech	829066-G2RC

3700.0000 - 4200.0000 MHz	36M0F8F	Analog TV Video
3700.0000 - 4200.0000 MHz	36M0G7F	Digital TV Video
ANTENNA ID: 5	3.8 meters Comtech	829066-G2RC
3700.0000 - 4200.0000 MHz	36M0F8F	Analog TV Video
3700.0000 - 4200.0000 MHz	36M0G7F	Digital TV Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180919-04447	E E190788	Madison Communications, Inc.	09/19/2018 - 09/19/2033
Registration			Date Effective: 12/04/2019
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 18591 Staunton Bunker Hill Rd., Macoupin, Staunton, IL
39 ° 1 ' 37.00 " N LAT. 89 ° 47 ' 56.00 " W LONG.

ANTENNA ID: 1	4.5 meters	Scientific Atlanta	Series 8345
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 2	3.8 meters	Patriot	PRT-380
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 3	3.8 meters	Patriot	PRT-380
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 4	3.8 meters	Patriot	PRT-380
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 5	3.2 meters	Scientific Atlanta	Series 9000
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 6	3.8 meters	Patriot	PRT-380
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 7	3.8 meters	Patriot	PRT-380

3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 8	3.8 meters	Patriot	PRT-380
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 9	3.8 meters	Patriot	PRT-380
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 10	4.2 meters	DH	42DH1
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 11	2.8 meters	Scientific Atlanta	HS9000
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 12	4.2 meters	DH	42DH1
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 13	3.8 meters	Comtech	934D0015-G2
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video
ANTENNA ID: 14	3.1 meters	Patriot	PRT-310
3700.0000 - 4200.0000 MHz	36M0G7W	0.00 dBW	Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180919-04448 E E190789 WAOW-WYOW License, LLC
 Registration 09/19/2018 - 09/19/2033
 Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: WAOW Television 1908 Grand Ave., Marathon, Wausau, WI
 44 ° 56 ' 15.00 " N LAT. 89 ° 37 ' 6.00 " W LONG.

ANTENNA ID: 1	4.5 meters	Patriot	PRT-450AZ
3700.0000 - 4200.0000 MHz	36M0G7F		Digital TV Video
3700.0000 - 4200.0000 MHz	36M0F3F		Analog TV Video

ANTENNA ID:	2	4.5 meters	Patriot	PRT-450AZ
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
	3700.0000 - 4200.0000 MHz		36M0F3F	Analog TV Video
ANTENNA ID:	3	3.8 meters	Patriot	PRT-380AZ
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
	3700.0000 - 4200.0000 MHz		36M0F3F	Analog TV Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180919-04449	E E190790	Cooperative Television Association of Southern Minnesota
Registration		09/19/2018 - 09/19/2033
Grant of Authority		Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 26076 737th ave, Watonwan, St. James, MN
 44 ° 6 ' 28.00 " N LAT. 94 ° 35 ' 56.00 " W LONG.

ANTENNA ID:	1	4.6 meters	Scientific Atlanta	8005
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW
				Digital Video
				Analog Video with associated subcarriers
ANTENNA ID:	2	3.7 meters	Prodelin	1374
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW
				Digital Video
				Analog Video with associated subcarriers
ANTENNA ID:	3	3.8 meters	Patriot	3.8
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW
				Digital Video
				Analog Video with associated subcarriers

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180920-04450 E E190791 WREX License, LLC

Registration

09/20/2018 - 09/20/2033

Grant of Authority

Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: WREX Television 10322 Auburn Rd., Winnebago, Rockford, IL

42 ° 17 ' 48.00 " N LAT.

89 ° 14 ' 22.00 " W LONG.

ANTENNA ID: 1	6.1 meters	ADM	ADM-20
3700.0000 - 4200.0000 MHz		36M0G7W	Digital TV Video
ANTENNA ID: 2	3.1 meters	Patriot	PRT-310
3700.0000 - 4200.0000 MHz		36M0G7W	Digital TV Video
ANTENNA ID: 3	3.8 meters	Patriot	PRT-380
3700.0000 - 4200.0000 MHz		36M0G7W	Digital TV Video
ANTENNA ID: 4	3.8 meters	Comtech	829066-G2RC
3700.0000 - 4200.0000 MHz		36M0G7W	Digital TV Video
ANTENNA ID: 5	3.7 meters	Prodelin	1375
3700.0000 - 4200.0000 MHz		36M0G7W	Digital TV Video
ANTENNA ID: 6	3.7 meters	AFC	PR-12
3700.0000 - 4200.0000 MHz		36M0G7W	Digital TV Video
ANTENNA ID: 7	3.4 meters	Prodelin	1345
3700.0000 - 4200.0000 MHz		36M0G7W	Digital TV Video
ANTENNA ID: 8	3 meters	Prodelin	1305
3700.0000 - 4200.0000 MHz		36M0G7W	Digital TV Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04494 E E190836 Eagle Broadband Investments, LLC

Registration

09/21/2018 - 09/21/2033

Grant of Authority

Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Name and Contact change Per Letter dated November 5, 2019. See Other Filing Tab for letter request.

SITE ID: 1
LOCATION: 1415 Road 20 (EC - St. Francis), Cheyenne, St. Francis, KS
39 ° 45 ' 30.90 " N LAT. 101 ° 41 ' 37.87 " W LONG.

ANTENNA ID:	ESTF-PROD	3.8 meters	Prodelin	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	ESTF-PAT-1	3.8 meters	Patriot	PRT-380
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	ESTF-PAT-2	3 meters	Patriot	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	ESTF-SA	4.2 meters	Scientific Atlanta	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	ESTF-CM	3 meters	Channel Master	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04495 E E190837 Gray Television Licensee, LLC
Registration 09/21/2018 - 09/21/2033
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 4201 Texoma Pkwy (KXII), Sherman, TX
33 ° 40 ' 50.00 " N LAT. 96 ° 35 ' 9.00 " W LONG.

ANTENNA ID:	KXII 1	4.2 meters	DH	DH-42POL
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital
ANTENNA ID:	KXII 2-4	4.6 meters	Andrew	4.6m

3700.0000 - 4200.0000 MHz	36M0G7F	Digital
ANTENNA ID: KXII 5	7 meters	Scientific Atlanta
		8010CM
3700.0000 - 4200.0000 MHz	36M0G7F	Digital
ANTENNA ID: KXII 6-7	4.6 meters	Scientific Atlanta
		8346
3700.0000 - 4200.0000 MHz	36M0G7F	Digital

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04496	E E190838	American Media Investments	
Registration			09/20/2018 - 09/20/2033
Grant of Authority			Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1162 E hwy 126 (KKOW Studios), Crawford, Pittsburg, KS
37 ° 24 ' 41.60 " N LAT. 94 ° 38 ' 17.30 " W LONG.

ANTENNA ID: KKOW-1	2.8 meters	Scientific-Atlanta	9000
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Audio and Video Services	

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04497	E E190839	Gray Television Licensee, LLC	
Registration			09/21/2018 - 09/21/2033
Grant of Authority			Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 3977 Belmont Rd (KWQC-TV), Bettendorf, IA
41 ° 32 ' 48.37 " N LAT. 90 ° 28 ' 41.09 " W LONG.

ANTENNA ID: KWQC 2	5 meters	Comtech	5M.
3700.0000 - 4200.0000 MHz	36M0G7W	Digital	

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04498 E E190840 Comcast Cable Communications Management, LLC
Registration 09/20/2018 - 09/20/2033
Grant of Authority Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 7475 Jefferson Road, St Johns, Riverdale, FL
29 ° 50 ' 0.80 " N LAT. 81 ° 32 ' 19.60 " W LONG.

ANTENNA ID: 3.2M. 3.2 meters Scientific-Atlantic 3.2 Meter
3700.0000 - 4200.0000 MHz 36M0G7W Digial Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04499 E E190841 WJAC Licensee, LLC
Registration 09/21/2018 - 09/21/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 49 Old Hickory Lane (WJAC), Cambria, Johnstown, PA
40 ° 17 ' 43.00 " N LAT. 78 ° 56 ' 14.50 " W LONG.

ANTENNA ID: 5.0M. 5 meters Antenna Technology 5.0M.
3700.0000 - 4200.0000 MHz 36M0G7W Digital traffic, various FEC, data rates
and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04500 E E190842 Gray Television Licensee, LLC
Registration 09/21/2018 - 09/21/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 50 North Main Street (WHSV), Harrisonburg, VA
38 ° 26 ' 59.04 " N LAT. 78 ° 52 ' 5.70 " W LONG.

ANTENNA ID: WHSV 18 2.4 meters Patriot 2MTXINT240KUS

3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL
ANTENNA ID: WHSV 1-6	4.5 meters Andrew	ATSK-450CST
3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL
ANTENNA ID: WHSV 7	3.4 meters Prodelin Antennas	1344
3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL
ANTENNA ID: WHSV 8-11	3.8 meters Patriot	PRT-380
3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL
ANTENNA ID: WHSV 12-13	3.1 meters Patriot	PRT-310
3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL
ANTENNA ID: WHSV 14-17	1.8 meters Patriot	2MTXFCC180NVDASO
3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04501	E E190843	Comcast Cable Communications Management, LLC	
Registration			09/20/2018 - 09/20/2033
Grant of Authority			Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 5330 E. 65th Street, Marion, Indianapolis, IN
39 ° 52 ' 38.00 " N LAT. 86 ° 4 ' 44.00 " W LONG.

ANTENNA ID: 4.5M.	4.5 meters	Scientific-Atlantic	8345
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video Carrier	

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04502	E E190844	Ouachita Broadcasting, Inc.	
Registration			09/21/2018 - 09/21/2033
Grant of Authority			Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1168 Hwy 71S (Mena Studio), Polk, Mena, AR
34 ° 34 ' 22.70 " N LAT. 94 ° 14 ' 33.70 " W LONG.

ANTENNA ID: 3.7M. 3.7 meters Prodelin UniMesh
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Analog Video with associated subcarriers

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04503 E E190845 ARKLATEX Radio, Inc.
Registration 09/21/2018 - 09/21/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1513 South 4th Street (Nashville Studio), Howard, Nashville, AR
33 ° 55 ' 45.70 " N LAT. 93 ° 51 ' 2.50 " W LONG.

ANTENNA ID: 3.7M. 3.7 meters Prodelin UniMesh
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Analog Video with associated subcarriers

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04504 E E190846 American Media Investments
Registration 09/20/2018 - 09/20/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 2510 West 20th (KMOQ studios), Jasper, Joplin, MO
37 ° 4 ' 8.90 " N LAT. 94 ° 32 ' 48.70 " W LONG.

ANTENNA ID: KMOQ-1 3.1 meters Patriot 3.1m Commercial
3700.0000 - 4200.0000 MHz 36M0G7W Digital Audio and Video Services

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04521 E E190872 BETTER BROADCASTING INCORPORATED
Registration 06/28/2018 - 06/28/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: KCHE Site 1
LOCATION: 201 South 5th Street, Cherokee, Cherokee, IA
42 ° 44 ' 50.42 " N LAT. 95 ° 33 ' 19.18 " W LONG.

ANTENNA ID: ANT1 3.7 meters Dawnco D37F48-4PC
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW QPSK modulation, digital audio and video data

Points of Communication:

KCHE Site 1 - PERMITTED LIST - ()

SES-REG-20180921-04525 E E190876 Eagle Communications Inc
Registration 09/21/2018 - 09/21/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 780 Cemetary Road, Yuma, Wray, CO
40 ° 4 ' 29.10 " N LAT. 102 ° 13 ' 13.19 " W LONG.

ANTENNA ID: 1 3 meters Patriot N/A
3700.0000 - 4200.0000 MHz 36M0G7D Video
ANTENNA ID: 2 3.8 meters Patriot PRT-380
3700.0000 - 4200.0000 MHz 36M0G7D Video
ANTENNA ID: 3 3.8 meters Prodelin N/A
3700.0000 - 4200.0000 MHz 36M0G7D Video
ANTENNA ID: 4 3.2 meters Scientific Atlanta 9000
3700.0000 - 4200.0000 MHz 36M0G7D Video
ANTENNA ID: 5 3 meters Channel Master N/A
3700.0000 - 4200.0000 MHz 36M0G7D Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04527 E E190878 Gray Television Licensee, LLC
Registration 09/21/2018 - 09/21/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 115 S. Jefferson St., Green Bay, WI
44 ° 30 ' 44.28 " N LAT. 88 ° 0 ' 45.71 " W LONG.

ANTENNA ID: 1 4.5 meters Andrew ASC 4.5 Meter

3700.0000 - 4200.0000 MHz 36M0G7F

ANTENNA ID: 2 3.8 meters Patriot PRT-380

3700.0000 - 4200.0000 MHz 36M0G7F

ANTENNA ID: 3 7.3 meters Andrews ASC 7.3 Meter

3700.0000 - 4200.0000 MHz 36M0G7F

ANTENNA ID: 4 4.5 meters Patriot 4.5m Prime Focus

3700.0000 - 4200.0000 MHz 36M0G7F

ANTENNA ID: 5 4.5 meters Patriot 4.5m Prime Focus

3700.0000 - 4200.0000 MHz 36M0G7F

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180921-04529 E E190880 Gray Television Licensee, LLC
Registration 09/21/2018 - 09/21/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 999 2nd Street S.E., Charlottesville, VA
38 ° 1 ' 25.43 " N LAT. 78 ° 29 ' 2.24 " W LONG.

ANTENNA ID: 1 4.5 meters Patriot PRT-450AZPL

3700.0000 - 4200.0000 MHz 36M0G7F

ANTENNA ID: 2 3.8 meters Patriot PRT-380PLR

3700.0000 - 4200.0000 MHz 36M0G7F

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180924-04466 E E190807 Lighthouse Radio Network, Inc. 09/24/2018 - 09/24/2033
Registration Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1476 Broadway, Penobscot, Bangor, ME
44 ° 50 ' 41.00 " N LAT. 68 ° 48 ' 6.50 " W LONG.

ANTENNA ID: 1 3.8 meters Comtech 829066-G2RC

3700.0000 - 4200.0000 MHz 30M0G7W 0.00 dBW

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180924-04543 E E190910 Community First Broadcasting, LLC 09/24/2018 - 09/24/2033
Registration Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Site 2
LOCATION: 3160 W. 18th Street, Dickinson, Spirit Lake, IA
43 ° 25 ' 22.90 " N LAT. 95 ° 8 ' 21.20 " W LONG.

ANTENNA ID: Dish 1 3.81 meters cOMTECH unknown

3700.0000 - 4200.0000 MHz 36M0G7W Multiplexed Digital

Points of Communication:

Site 2 - PERMITTED LIST - ()

SES-REG-20180924-04544 E E190911 NBC Telemundo License LLC 09/24/2018 - 09/24/2033
Registration Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 25 59
LOCATION: 15000 SW 27 St., BROWARD, Miramar, FL
25 ° 59 ' 2.20 " N LAT. 80 ° 20 ' 48.20 " W LONG.

ANTENNA ID: WTVJ-ACD 7 meters Vertex 7 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio and data on phase modulated carriers

SITE ID: Miramar2
LOCATION: 15000 SW 27 St., BROWARD, Miramar, FL
25 ° 59 ' 2.20 " N LAT. 80 ° 20 ' 48.20 " W LONG.

ANTENNA ID: WTVJ-TMS 7 meters General Dynamics 700-70TCK Torus
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio and data on phase modulated carriers

ANTENNA ID: WTVJ-W 3.8 meters DH Satellite 3.8 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital video, audio and data on phase modulated carriers

Points of Communication:

25 59 - PERMITTED LIST - ()

Miramar2 - PERMITTED LIST - ()

SES-REG-20180924-04546 E E190913 CISCO Systems Inc. 09/21/2018 - 09/21/2033
Registration
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: GLS
LOCATION: 5030 Sugarloaf Parkway, Gwinnett, Lawrenceville, GA
33 ° 57 ' 31.00 " N LAT. 84 ° 4 ' 16.00 " W LONG.

ANTENNA ID: 4.5M 4.5 meters Superior 8345
3700.0000 - 4200.0000 MHz 36M0G7W Digital traffic, various FEC, data rates and modulation
3700.0000 - 4200.0000 MHz 30K0G7W Digital traffic, various FEC, data rates and modulation
3700.0000 - 4200.0000 MHz 30K0F7W Digital / analog traffic, various FEC, data rates and modulation

3700.0000 - 4200.0000 MHz

36M0F7W

Digital / analog traffic, various FEC, data rates and modulation

Points of Communication:

GLS - PERMITTED LIST - ()

SES-REG-20180924-04547 E E190914 Eagle Communications Inc

Registration

09/24/2018 - 09/24/2033

Grant of Authority

Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: EC - Big Springs, NE

LOCATION: 1/4 E School, Deuel, Big Springs, NE

41 ° 4 ' 4.56 " N LAT.

102 ° 3 ' 47.96 " W LONG.

ANTENNA ID: 1 3.4 meters N/A Metal N/A

3700.0000 - 4200.0000 MHz 36M0G7D Video

ANTENNA ID: 2 3.8 meters Prodelin N/A

3700.0000 - 4200.0000 MHz 36M0G7D Video

Points of Communication:

EC - Big Springs, NE - PERMITTED LIST - ()

SES-REG-20180925-04458 E E190799 WNIN Tri-State Public Media, Inc.

Registration

09/25/2018 - 09/25/2033

Grant of Authority

Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: Two Main St, Vanderburgh, Evansville, IN

37 ° 58 ' 10.94 " N LAT.

87 ° 34 ' 31.42 " W LONG.

ANTENNA ID: 1 3.8 meters DH Satellite DH-38AE

3700.0000 - 4200.0000 MHz 36M0F8F 0.00 dBW Analog Video with Associated Subcarriers

3700.0000 - 4200.0000 MHz 30M0G7W 0.00 dBW Digital Video

Points of Communication:

1 - PERMITTED LIST - ()

Registration

09/25/2018 - 09/25/2033

Grant of Authority

Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: WKOW Television 5727 Tokay Blvd., Dane, Madison, WI
43 ° 3 ' 9.10 " N LAT.

89 ° 28 ' 40.90 " W LONG.

ANTENNA ID: 1	7.3 meters	Andrew	ES73-1
3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
3700.0000 - 4200.0000 MHz		36M0F8W	Analog Video and Data
ANTENNA ID: 2	5 meters	Comtech	5M
3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
3700.0000 - 4200.0000 MHz		36M0F8W	Analog Video and Data
ANTENNA ID: 3	5 meters	Jalisco	AJ-5M
3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
3700.0000 - 4200.0000 MHz		36M0F8W	Analog Video and Data
ANTENNA ID: 4	4.5 meters	Andrew	ESA45-4
3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
3700.0000 - 4200.0000 MHz		36M0F8W	Analog Video and Data
ANTENNA ID: 5	4.5 meters	Patriot	PRT-450
3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
3700.0000 - 4200.0000 MHz		36M0F8W	Analog Video and Data
ANTENNA ID: 6	4.5 meters	Scientific Altanta	8345
3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
3700.0000 - 4200.0000 MHz		36M0F8W	Analog Video and Data
ANTENNA ID: 7	3.4 meters	GDSatcom	1344
3700.0000 - 4200.0000 MHz		36M0G7F	Digital TV Video
3700.0000 - 4200.0000 MHz		36M0F8W	Analog Video and Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180925-04553 E E190920 Ventana Television, Inc.
Registration 09/22/2018 - 09/22/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Des Moines
LOCATION: 5750 NW 100th St., Polk, Grimes, IA
41 ° 39 ' 53.18 " N LAT. 93 ° 45 ' 24.14 " W LONG.

ANTENNA ID: ANT1 3.8 meters Patriot PRT-380AZ
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Modulation and Services Digital Video

Points of Communication:

Des Moines - PERMITTED LIST - ()

SES-REG-20180925-04554 E E190921 Ventana Television, Inc.
Registration 09/22/2018 - 09/22/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Kansas City
LOCATION: 6309 E. 56th St., Jackson, Kansas City, MO
39 ° 1 ' 19.47 " N LAT. 94 ° 30 ' 49.75 " W LONG.

ANTENNA ID: ANT1 3.8 meters Comtech 934D0015-G2
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Modulation and Services Digital Video

Points of Communication:

Kansas City - PERMITTED LIST - ()

SES-REG-20180925-04556 E E190923 Ventana Television, Inc.
Registration 09/22/2018 - 09/22/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Portsmouth
LOCATION: 5277 Nansermond Parkway, Suffolk, Suffolk, VA
36 ° 48 ' 57.88 " N LAT. 76 ° 27 ' 55.98 " W LONG.

ANTENNA ID: ANT1 3.8 meters Patriot PRT-380AZ
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Modulation and Services Digital Video

Points of Communication:

Portsmouth - PERMITTED LIST - ()

SES-REG-20180925-04558 E E190925 Ventana Television, Inc.
Registration 09/22/2018 - 09/22/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: St. Louis
LOCATION: 6871 Heege Road, St. Louis, Affton, MO
38 ° 34 ' 3.26 " N LAT. 90 ° 19 ' 54.07 " W LONG.

ANTENNA ID: ANT1 3.8 meters Comtech 934D0015-G2
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Modulation and Services Digital Video

Points of Communication:

St. Louis - PERMITTED LIST - ()

SES-REG-20180925-04560 E E190927 Ventana Television, Inc.
Registration 09/22/2018 - 09/22/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Jacksonville
LOCATION: 1 Independent Dr., Duval, Jacksonville, FL
30 ° 19 ' 33.49 " N LAT. 81 ° 39 ' 31.65 " W LONG.

ANTENNA ID: ANT1 3.7 meters Prodelin 3.7M RX/O
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Modulation and Services Digital Video

Points of Communication:

Jacksonville - PERMITTED LIST - ()

SES-REG-20180925-04561 E E190928 Ventana Television, Inc.
Registration 09/22/2018 - 09/22/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Pensacola
LOCATION: 8150 Ashland Ave, Escambia, Pensacola, FL
30 ° 30 ' 54.11 " N LAT. 87 ° 17 ' 44.67 " W LONG.

ANTENNA ID: ANT1 3.8 meters Patriot PRT-380AZ
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Modulation and Services Digital Video

Points of Communication:

Pensacola - PERMITTED LIST - ()

SES-REG-20180926-04573 E E190940 Sirius XM Radio Inc.
Registration 09/26/2018 - 09/26/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Vernon
LOCATION: 24 Vernon Crossing Way, Sussex, Vernon, NJ
41 ° 12 ' 45.00 " N LAT. 74 ° 29 ' 39.00 " W LONG.

ANTENNA ID: Patriot 4.5 meters Patriot 4.5M
3700.0000 - 4200.0000 MHz 36M0G7W Digital audio, video, data

ANTENNA ID: ATCI 5 meters ATCI Simulsat 5
3700.0000 - 4200.0000 MHz 36M0G7W Digital audio, video, data

ANTENNA ID: Prodelin 3.6 meters Prodelin 3.6M
3700.0000 - 4200.0000 MHz 36M0G7W Digital audio, video, data

ANTENNA ID: Comtech 7.2 meters Comtech 7.2M
3700.0000 - 4200.0000 MHz 36M0G7W Digital audio, video, data

ANTENNA ID: Vertex 9.3 meters Vertex 9.3 MC
3700.0000 - 4200.0000 MHz 36M0G7W Digital audio, video, data

Points of Communication:

Vernon - PERMITTED LIST - ()

SES-REG-20180926-04574 E E190941 Sirius XM Radio Inc.
 Registration 09/26/2018 - 09/26/2033
 Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Eckington
 LOCATION: 1500 Eckington Place, NE, Washington, DC
 38 ° 54 ' 34.90 " N LAT. 77 ° 0 ' 21.50 " W LONG.

ANTENNA ID: 1	3.8 meters	Patriot	3.8 Meter
	3700.0000 - 4200.0000 MHz	36M0G7W	Digital audio, video, data
ANTENNA ID: 2	5 meters	ATCI	Simulsat 5
	3700.0000 - 4200.0000 MHz	36M0G7W	Digital audio, video, data
ANTENNA ID: 3	5 meters	Prodelin	5 Meter
	3700.0000 - 4200.0000 MHz	36M0G7W	Digital audio, video, data

Points of Communication:

Eckington - PERMITTED LIST - ()

SES-REG-20180926-04576 E E190943 Eagle Communications Inc
 Registration 09/26/2018 - 09/26/2033
 Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: EC - Red Cloud, NE
 LOCATION: 524 W 11th Ave., Webster, Red Cloud, NE
 40 ° 5 ' 45.50 " N LAT. 98 ° 31 ' 30.86 " W LONG.

ANTENNA ID: 1	3 meters	Patriot	N/A
	3700.0000 - 4200.0000 MHz	36M0G7D	Video
ANTENNA ID: 2	4.7 meters	N/A Fiberglass	N/A
	3700.0000 - 4200.0000 MHz	36M0G7D	Video
ANTENNA ID: 3	3.8 meters	Patriot	PRT-380
	3700.0000 - 4200.0000 MHz	36M0G7D	Video

ANTENNA ID:	4	3.2 meters	Scientific Atlanta	9000
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	5	3.8 meters	Prodelin	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video

Points of Communication:

EC - Red Cloud, NE - PERMITTED LIST - ()

SES-REG-20180926-04580	E	E190947	SES Americom, Inc.	
Registration				09/26/2018 - 09/26/2033
Grant of Authority				Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Princeton NJ
 LOCATION: 4 Research Way, Princeton, NJ
 40 ° 21 ' 20.00 " N LAT. 74 ° 35 ' 31.00 " W LONG.

ANTENNA ID:	Ant1	3.7 meters	Patriot	RO-3.7m
	3700.0000 - 4200.0000 MHz		36M0G7W	0.00 dBW
				Modulation and Services Digital Video

Points of Communication:

Princeton NJ - PERMITTED LIST - ()

SES-REG-20180926-04581	E	E190948	Eagle Communications Inc	
Registration				09/26/2018 - 09/26/2033
Grant of Authority				Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: EC - Franklin, NE
 LOCATION: 1397 Hwy 136, Franklin, Franklin, NE
 40 ° 5 ' 44.49 " N LAT. 98 ° 56 ' 3.94 " W LONG.

ANTENNA ID:	1	3 meters	N/A Metal	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	2	4.7 meters	N/A Fiberglass	N/A
	3700.0000 - 4200.0000 MHz		36M0G7D	Video
ANTENNA ID:	3	3.7 meters	Prodelin	N/A

3700.0000 - 4200.0000 MHz	36M0G7D	Video
ANTENNA ID: 4	3.2 meters Scientific Atlanta	9000
3700.0000 - 4200.0000 MHz	36M0G7D	Video
ANTENNA ID: 5	3 meters Prodelin	N/A
3700.0000 - 4200.0000 MHz	36M0G7D	Video
ANTENNA ID: 6	3.8 meters Patriot	PRT-380
3700.0000 - 4200.0000 MHz	36M0G7D	Video

Points of Communication:

EC - Franklin, NE - PERMITTED LIST - ()

SES-REG-20180927-04459 E E190800 HunTel CableVision
 Registration 09/27/2018 - 09/27/2033
 Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 1300 S 17th Ave., Washington, Blair, NE
 41 ° 31 ' 53.03 " N LAT. 96 ° 8 ' 12.17 " W LONG.

ANTENNA ID: 1	3.7 meters Prodelin	1374-995
3700.0000 - 4200.0000 MHz	36M0G7W	QPSK, compressed Video
ANTENNA ID: 2	3.7 meters Prodelin	1374-995
3700.0000 - 4200.0000 MHz	36M0G7W	QPSK, compressed Video
ANTENNA ID: 3	3.7 meters Prodelin	1374-995
3700.0000 - 4200.0000 MHz	36M0G7W	QPSK, compressed Video
ANTENNA ID: 4	3.7 meters Prodelin	1374-995
3700.0000 - 4200.0000 MHz	36M0G7W	QPSK, compressed Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180927-04467 E E190809 HunTel CableVision

Registration

09/27/2018 - 09/27/2033

Grant of Authority

Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 57448 854th Rd, Wayne, Wayne, NE

42 ° 12 ' 16.49 " N LAT.

97 ° 2 ' 51.28 " W LONG.

ANTENNA ID:	1	3.8 meters	Comtech	NA
	3700.0000 - 4200.0000 MHz		36M0G7W	QPSK, compressed Video
ANTENNA ID:	2	3.2 meters	Patriot	NA
	3700.0000 - 4200.0000 MHz		36M0G7W	QPSK, compressed Video
ANTENNA ID:	3	3.8 meters	Comtech	NA
	3700.0000 - 4200.0000 MHz		36M0G7W	QPSK, compressed Video
ANTENNA ID:	4	4.6 meters	Scientific Atlanta	NA
	3700.0000 - 4200.0000 MHz		36M0G7W	QPSK, compressed Video
ANTENNA ID:	5	4.5 meters	Scientific Atlanta	8345
	3700.0000 - 4200.0000 MHz		36M0G7W	QPSK, compressed Video
ANTENNA ID:	6	3.8 meters	Patriot	PRT-380
	3700.0000 - 4200.0000 MHz		36M0G7W	QPSK, compressed Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180927-04530 E E190881 G2 Media Group LLC

Registration

09/27/2018 - 09/27/2033

Grant of Authority

Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Sallisaw

LOCATION: 333 S. Kerr Blvd., Sequoyah, Sallisaw, OK

35 ° 27 ' 19.51 " N LAT.

94 ° 48 ' 27.71 " W LONG.

ANTENNA ID:	3.7m	3.7 meters	DH	3.7 Meter
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SITE ID: KETX
LOCATION: 115 Radio Road, Polk, Livingston, TX
30 ° 44 ' 21.70 " N LAT. 94 ° 55 ' 33.00 " W LONG.

ANTENNA ID: 3.6M 3.6 meters DH 3.6
3700.0000 - 4200.0000 MHz 36M0G7W Digital traffic, various FEC, data rates and modulation
ANTENNA ID: 2.4M 2.4 meters DH 2.4
3700.0000 - 4200.0000 MHz 36M0G7W Digital traffic, various FEC, data rates and modulation

Points of Communication:

KETX - PERMITTED LIST - ()

SES-REG-20180928-04604 E CBS Communications Services Inc.
Registration 09/28/2018 - 09/28/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 4
LOCATION: 555 West 57th St., New York, New York, NY
40 ° 46 ' 14.00 " N LAT. 73 ° 59 ' 26.00 " W LONG.

ANTENNA ID: 1 4.2 meters DawnCo D42PMD
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Audio, Video, Data
ANTENNA ID: 2 3.7 meters DawnCo D37F60
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Audio, Video, Data

Points of Communication:

4 - PERMITTED LIST - ()

SES-REG-20180928-04613 E E190980 Pacific and Southern, LLC
Registration 09/28/2018 - 09/28/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: STUDIO
LOCATION: 1 Congress Square, Cumberland, Portland, ME
43 ° 39 ' 12.24 " N LAT. 70 ° 15 ' 48.18 " W LONG.

ANTENNA ID: 1 4.2 meters DawnCo D42PMD
3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

STUDIO - PERMITTED LIST - ()

SES-REG-20180930-04464 E E190805 Central Baptist Theological Seminary-WCTS Radio
Registration 09/30/2018 - 09/30/2033
Grant of Authority Date Effective: 12/04/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 900 Forestview Lane North, Hennepin, Plymouth, MN
44 ° 59 ' 19.30 " N LAT. 93 ° 25 ' 37.30 " W LONG.

ANTENNA ID: 1 3.7 meters Prodelin 1374-995
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital audio and video services.

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20181011-04512 E E190863 LEBANON BROADCASTING COMPANY
Registration 10/08/2018 - 10/08/2033
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Site 1
LOCATION: 440 Rebecca street, Lebanon, Lebanon, PA
40 ° 21 ' 34.30 " N LAT. 76 ° 27 ' 34.00 " W LONG.

ANTENNA ID: 1 3.2 meters Comtec comtec
3700.0000 - 4200.0000 MHz 36M0G7D Digital Audio

Points of Communication:

Site 1 - PERMITTED LIST - ()

SES-RWL-20190820-01060 E E040343 Intelsat License LLC
Renewal 10/26/2019 - 10/26/2034
Grant of Authority Date Effective: 12/03/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 22401 JUNIPER FLATS ROAD, RIVERSIDE, NUEVO, CA
33 ° 47 ' 40.00 " N LAT. 117 ° 5 ' 5.40 " W LONG.

ANTENNA ID:	1A	8.1 meters	VERTEX/RSI	KPK
	14000.0000 - 14500.0000 MHz		1M00G7D 52.40 dBW	DIGITAL TT&C CARRIER
	14000.0000 - 14500.0000 MHz		200KG7D 62.80 dBW	DIGITAL TT&C CARRIER
	14000.0000 - 14500.0000 MHz		1M00F8D 62.80 dBW	ANALOG TT&C CARRIER
	14000.0000 - 14500.0000 MHz		16K0F8D 57.80 dBW	ANALOG TT&C CARRIER
	11700.0000 - 12200.0000 MHz		16K0F8D	ANALOG TT&C CARRIER
	11700.0000 - 12200.0000 MHz		1M00F8D	ANALOG TT&C CARRIER
	11700.0000 - 12200.0000 MHz		200KG7D	DIGITAL TT&C CARRIER
	11700.0000 - 12200.0000 MHz		1M00G7D	DIGITAL TT&C CARRIER

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20191202-01546 E E040462 TDS METROCOM, LLC
Renewal 12/11/2019 - 12/11/2034
Grant of Authority Date Effective: 12/05/2019

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 6400 SCHROEDER ROAD, DANE, MADISON, WI
43 ° 2 ' 51.90 " N LAT. 89 ° 29 ' 33.40 " W LONG.

ANTENNA ID:	1	5 meters	ATCI	SUMULSAT 5M.
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL AUDIO AND VIDEO
	3700.0000 - 4200.0000 MHz		36M0F8W	ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
ANTENNA ID:	2	4.5 meters	VIASAT	4.5M.
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL AUDIO AND VIDEO
	3700.0000 - 4200.0000 MHz		36M0F8W	ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS

ANTENNA ID:	C1	4.5 meters	VIASAT	4.5M.
	3700.0000 - 4200.0000 MHz		36M0F8W	ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL AUDIO AND VIDEO

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20191203-01625	E	E950024	Gray Television Licensee, LLC	
Renewal				12/23/2019 - 12/23/2034
Grant of Authority				Date Effective: 12/06/2019

Class of Station: Other

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: HIGHWAY 11 NORTH, JONES, NORTH HATTIESBURG, MS
 31 ° 27 ' 10.00 " N LAT. 89 ° 17 ' 2.00 " W LONG.

ANTENNA ID:	1	3.6 meters	ANDREW CORP.	ES36MPJK
	11700.0000 - 12200.0000 MHz		36M0F8W	

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20191203-01637	E	E050001	Spectrum Southeast, LLC	
Renewal				12/30/2019 - 12/30/2034
Grant of Authority				Date Effective: 12/06/2019

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: 1210 BUDFORD HWY (SUGARHILL, GA), GWINNETT, SUGAR HILL, GA
 34 ° 5 ' 21.70 " N LAT. 84 ° 1 ' 19.40 " W LONG.

ANTENNA ID:	1	5 meters	ANTENNA TECH CORP	SIMULSAT 5M
	3700.0000 - 4200.0000 MHz		36M0F8W	VIDEO CARRIER

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20191205-01638 E E8190 TEGNA Broadcast Holdings, LLC
Renewal 01/04/2020 - 01/04/2035
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 3003 PARK 16TH STREET, HENRY, MOLINE, IL
41 ° 18 ' 44.28 " N LAT. 90 ° 22 ' 40.38 " W LONG.

ANTENNA ID:	1	7.3 meters	ANDREW CORPORATION	ESA73-46
	3700.0000 - 4200.0000 MHz		36M0G7F	COMPRESSED DIGITAL VIDEO
	3700.0000 - 4200.0000 MHz		36M0F3F	STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
ANTENNA ID:	2	4.5 meters	ANDREW CORPORATION	ESA45-46
	3700.0000 - 4200.0000 MHz		36M0G7F	COMPRESSED DIGITAL VIDEO
	3700.0000 - 4200.0000 MHz		36M0F3F	STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20191206-01661 E E7752 Midcontinent Communications
Renewal 11/30/2019 - 11/30/2034
Grant of Authority Date Effective: 12/09/2019

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: ISANTI, CAMBRIDGE, MN
45 ° 34 ' 27.00 " N LAT. 93 ° 12 ' 19.00 " W LONG.

ANTENNA ID:	1	5 meters	ATC SIMULSAT 5M
	3700.0000 - 4200.0000 MHz		36000F9

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20191209-01668 E E050015 Roberts Communications Network, Inc.
Renewal 03/07/2020 - 03/07/2035
Grant of Authority Date Effective: 12/10/2019

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: VARIOUS

ANTENNA ID:	N/A	4.1 meters	Comtech	Offsat
5925.0000 - 6425.0000 MHz		36M0F3F	72.40 dBW	Standard video with associated audio subcarriers
5925.0000 - 6425.0000 MHz		36M0G7W	72.40 dBW	BPSK, QPSK, 8PSK, QAM, FEC rates 1/2 - 7/8, various data rates to 45 mbps, various information
5925.0000 - 6425.0000 MHz		51K2G7W	54.30 dBW	BPSK, QPSK, 8PSK, QAM, FEC rates 1/2 - 7/8, various data rates from 64kbps, various information

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20191209-01669 E E050014 Roberts Communications Network, Inc.
Renewal 03/07/2020 - 03/07/2035
Grant of Authority Date Effective: 12/10/2019

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: VARIOUS

ANTENNA ID:	1	4.1 meters	COMTECH	OFFSAT
5925.0000 - 6425.0000 MHz		36M0F3F	72.40 dBW	STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
5925.0000 - 6425.0000 MHz		36M0G7W	72.40 dBW	BPSK, QPSK, 8PSK, QAM, FEC rates 1/2 - 7/8, various data rates to 45 mbps, various information
5925.0000 - 6425.0000 MHz		51K2G7W	54.30 dBW	BPSK, QPSK, 8PSK, QAM, FEC rates 1/2 - 7/8, various data rates from 64kbps, various information

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20191209-01670 E E050013 Roberts Communications Network, Inc.
Renewal 03/07/2020 - 03/07/2035
Grant of Authority Date Effective: 12/10/2019

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: VARIOUS

ANTENNA ID:	1	4.1 meters	COMTECH	OFFSAT
	5925.0000 - 6425.0000 MHz	36M0F3F	72.40 dBW	STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	5925.0000 - 6425.0000 MHz	36M0G7W	72.40 dBW	BPSK, QPSK, 8PSK, QAM, FEC rates 1/2 - 7/8, VARIOUS DATA RATES TO 45 MBPS, VARIOUS INFORMATION
	5925.0000 - 6425.0000 MHz	51K2G7W	54.30 dBW	BPSK, QPSK, 8PSK, QAM, FEC rates 1/2 - 7/8, VARIOUS DATA RATES FROM 64KBPS, VARIOUS INFORMATION

Points of Communication:

1 - PERMITTED LIST - ()

SES-STA-20191126-01592 E Intelsat License LLC
Special Temporary Authority
Grant of Authority Date Effective: 12/06/2019

Class of Station:

On December 6, 2019, Intelsat License LLC was granted special temporary authority for 30 days, beginning December 6, 2019, to test a .23-meter antenna in Melbourne, FL and at Intelsat's teleport in Hagerstown, MD to communicate with the Galaxy 16 (S2687) satellite in the 14.0-14.5 GHz (Earth-to-space) and 11.7-12.18 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20191206-01663 E E170205 Alaska Communications Internet, LLC
Special Temporary Authority
Grant of Authority Date Effective: 12/10/2019

Class of Station:

On December 10, 2019, Alaska Communications Internet, LLC was granted special temporary authority for 60 days, beginning December 10, 2019, to operate nine (9) remote earth station sites in the Northwest Arctic Borough of Alaska to communicate with the network hub operated by Alaska Communications Internet under the ACI Network License via the EUTELSAT 115WB satellite in the C-band without prejudice to its underlying application SES-MOD-20190828-01106.

Points of Communication:

SES-STA-20191208-01666 E E920698 SES Americom, Inc.
Special Temporary Authority
Grant of Authority Date Effective: 12/09/2019

Class of Station:

On December 9, 2019, SES Americom, Inc. was granted special temporary authority for 30 days beginning December 10, 2019, to operate its fixed earth station in Woodbine, MD to provide telemetry, tracking and command (TT&C) services for the ASTRA 3A satellite at the 86.8° W.L. orbital location in the 11198.0 MHz and 11199.5 MHz (space-to-Earth), and 14496.0 MHz and 14499.0 MHz (Earth-to-space) frequency bands.. SES is not seeking U.S. market access for the satellite.

Points of Communication:

SES-STA-20191208-01667 E E050287 SES Americom, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 12/09/2019

Class of Station:

On December 9, 2019, SES Americom, Inc. was granted special temporary authority for 30 days beginning December 10, 2019, to operate its fixed earth station in Mt. Airy, MD to provide telemetry, tracking and command (TT&C) services for the NSS-6 satellite at the 86.8° W.L. orbital location in the 11198.0 MHz and 11199.5 MHz (space-to-Earth), and 14496.0 MHz and 14499.0 MHz (Earth-to-space) frequency bands. SES is not seeking U.S. market access for the satellite.

Points of Communication:

SURRENDER

SES-LIC-20051202-01671 E050363 CENTRAL SATELLITE SERVICE, L.L.C.

License surrendered by letter filed on December 5, 2019.

SES-RWL-20041004-01486 E940509 CENTRAL SATELLITE SERVICE, L.L.C.

License surrendered by letter filed on December 5, 2019.

SES-RWL-20090825-01047 E990350 KLZ Radio, Inc.

License surrendered by letter filed on December 9, 2019.

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