

5925.0000 - 5989.5000 MHz	3M52G7W	63.40 dBW	Digital Data
6049.1500 - 6182.2400 MHz	3M52G7W	63.40 dBW	Digital Data
6390.1000 - 6425.0000 MHz	3M52G7W	63.40 dBW	Digital Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20170710-00746 E E170124 Skyview Satellite Networks
 Application for Authority 09/11/2017 - 09/11/2032
 Grant of Authority Date Effective: 09/11/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 14605 N Airport Drive Suite 370, Maricopa, Scottsdale, AZ
 33 ° 37 ' 1.00 " N LAT. 111 ° 55 ' 14.50 " W LONG.

ANTENNA ID: 1	4.2 meters	Anderson Manufacturing	4.2 Meter
3700.0000 - 4200.0000 MHz	3M52G7W		Digital Data
5925.0000 - 6425.0000 MHz	3M52G7W	70.40 dBW	Digital Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20170721-00791 E E170136 Digital Comm Link, Inc.
 Application for Authority 09/08/2017 - 09/08/2032
 Grant of Authority Date Effective: 09/08/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 10450 State Road, Broward, Davie, FL
 26 ° 6 ' 23.20 " N LAT. 80 ° 17 ' 16.20 " W LONG.

ANTENNA ID: 1	13 meters	RSI	1130C
3700.0000 - 4200.0000 MHz	2M00G7W		Digital Data Carrier
3700.0000 - 4200.0000 MHz	36M0G7W		Digital Data Carrier
5925.0000 - 6425.0000 MHz	2M00G7W	67.80 dBW	Digital Data Carrier
5925.0000 - 6425.0000 MHz	36M0G7W	76.70 dBW	Digital Data Carrier

ANTENNA ID:	2	9.1 meters	Andrews	ESA91	
	3700.0000 - 4200.0000 MHz		2M00G7W	Digital Data Carrier	
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Data Carrier	
	5925.0000 - 6425.0000 MHz		2M00G7W	65.90 dBW	Digital Data Carrier
	5925.0000 - 6425.0000 MHz		36M0G7W	74.80 dBW	Digital Data Carrier
ANTENNA ID:	3	7.3 meters	General Dynamics	Satcom 7.3m	
	3700.0000 - 4200.0000 MHz		2M00G7W	Digital Data Carrier	
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Data Carrier	
	5925.0000 - 6425.0000 MHz		2M00G7W	63.80 dBW	Digital Data Carrier
	5925.0000 - 6425.0000 MHz		36M0G7W	72.70 dBW	Digital Data Carrier
ANTENNA ID:	4	3.8 meters	Prodelin	1383	
	3700.0000 - 4200.0000 MHz		2M00G7W	Digital Data Carrier	
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Data Carrier	
	5925.0000 - 6425.0000 MHz		2M00G7W	58.20 dBW	Digital Data Carrier
	5925.0000 - 6425.0000 MHz		36M0G7W	67.20 dBW	Digital Data Carrier
ANTENNA ID:	5	2.4 meters	Channel Master	243	
	3700.0000 - 4200.0000 MHz		2M00G7W	Digital Data Carrier	
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Data Carrier	
	5925.0000 - 6425.0000 MHz		2M00G7W	54.00 dBW	Digital Data Carrier
	5925.0000 - 6425.0000 MHz		36M0G7W	62.90 dBW	Digital Data Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20170731-00833 E E170144 Cox Media Group Northeast, LLC
 Application for Authority
 Grant of Authority

09/07/2017 - 09/07/2032
 Date Effective: 09/07/2017

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: (WFXT), Various

ANTENNA ID:	WFXT	1.4 meters	AVL Technologies	1410K
	14000.0000 - 14500.0000 MHz	36M0G7W	65.47 dBW	One 36 Mbit MCPC digital carrier for voice/data with an emission designator of 36M0G7W

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20170522-00580	E E130021	O3b Limited	06/20/2013 - 06/20/2028
Application for Modification			Date Effective: 09/12/2017
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Texas Gateway
LOCATION: 2719 County Rd 93 S, Wilbarger, South Vernon, TX
34 ° 13 ' 4.73 " N LAT. 99 ° 23 ' 46.53 " W LONG.

ANTENNA ID:	Ant 1-4	7.3 meters	Viasat	MEO7
	29087.8000 - 29089.1000 MHz	500KG2D	85.14 dBW	TT&C
	28600.0000 - 29100.0000 MHz	307KG7D	52.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	28600.0000 - 29100.0000 MHz	40M0G7D	87.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	28600.0000 - 29100.0000 MHz	216MG7D	87.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	27600.0000 - 28400.0000 MHz	307KG7D	52.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	27600.0000 - 28400.0000 MHz	216MG7D	87.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	19296.2000 - 19299.9000 MHz	300KG1D		TT&C
	18800.0000 - 19300.0000 MHz	307KG7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	18800.0000 - 19300.0000 MHz	40M0G7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	18800.0000 - 19300.0000 MHz	216MG7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link

17800.0000 - 18600.0000 MHz	307KG7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
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17800.0000 - 18600.0000 MHz	216MG7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
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Points of Communication:

Texas Gateway - O3B-A (S2935) - (Eq. NGSO)

SES-MOD-20170601-00616	E E160015	SES Americom, Inc.	07/13/2016 - 07/13/2031
Application for Modification			Date Effective: 09/06/2017
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 66c Teleport Dr, Okanogan, Brewster, WA
48 ° 8 ' 46.70 " N LAT.

119 ° 41 ' 37.00 " W LONG.

ANTENNA ID: 1 9.2 meters SES 9.2 METER

27500.0000 - 28350.0000 MHz	100KG7W	54.50 dBW	DIGITAL DATA AND VOICE
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27500.0000 - 28350.0000 MHz	250MG7W	88.50 dBW	DIGITAL DATA AND VOICE
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29250.0000 - 30000.0000 MHz	250MG7W	88.50 dBW	DIGITAL DATA AND VOICE
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29250.0000 - 30000.0000 MHz	100KG7W	54.50 dBW	DIGITAL DATA AND VOICE
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19700.0000 - 20200.0000 MHz	250MG7W		DIGITAL DATA AND VOICE
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19700.0000 - 20200.0000 MHz	100KG7W		DIGITAL DATA AND VOICE
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18300.0000 - 18800.0000 MHz	250MG7W		DIGITAL DATA AND VOICE
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18300.0000 - 18800.0000 MHz	100KG7W		DIGITAL DATA AND VOICE
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Points of Communication:

1 - PERMITTED LIST - ()

1 - SES-15 (S2951) - (129.15 W.L)

SES-MOD-20170601-00617	E E160022	SES Americom, Inc.	07/13/2016 - 07/13/2031
Application for Modification			Date Effective: 09/06/2017
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 5920 Solano Verde Dr, Ventura, Somis, CA
34 ° 19 ' 31.90 " N LAT. 118 ° 59 ' 41.40 " W LONG.

ANTENNA ID:	1	9.2 meters	SES	9.2 METER
	29250.0000 - 30000.0000 MHz	250MG7W	88.50 dBW	DIGITAL DATA AND VOICE
	29250.0000 - 30000.0000 MHz	100KG7W	54.50 dBW	DIGITAL DATA AND VOICE
	27500.0000 - 28350.0000 MHz	250MG7W	88.50 dBW	DIGITAL DATA AND VOICE
	27500.0000 - 28350.0000 MHz	100KG7W	54.50 dBW	DIGITAL DATA AND VOICE
	19700.0000 - 20200.0000 MHz	250MG7W		DIGITAL DATA AND VOICE
	19700.0000 - 20200.0000 MHz	100KG7W		DIGITAL DATA AND VOICE
	18300.0000 - 18800.0000 MHz	250MG7W		DIGITAL DATA AND VOICE
	18300.0000 - 18800.0000 MHz	100KG7W		DIGITAL DATA AND VOICE

Points of Communication:

1 - PERMITTED LIST - ()

1 - SES-15 (S2951) - (129.15 W.L)

SES-MOD-20170601-00618 E E160021 SES Americom, Inc.
Application for Modification 07/13/2016 - 07/13/2031
Grant of Authority Date Effective: 09/06/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 2323 Grimville Rd, Carroll, Mount Airy, MD
39 ° 22 ' 38.70 " N LAT. 77 ° 4 ' 49.10 " W LONG.

ANTENNA ID:	1	13.2 meters	SES	13.2 METER
	29250.0000 - 30000.0000 MHz	250MG7W	88.00 dBW	DIGITAL DATA AND VOICE
	29250.0000 - 30000.0000 MHz	100KG7W	51.30 dBW	DIGITAL DATA AND VOICE
	27500.0000 - 28350.0000 MHz	250MG7W	88.00 dBW	DIGITAL DATA AND VOICE
	27500.0000 - 28350.0000 MHz	100KG7W	51.30 dBW	DIGITAL DATA AND VOICE
	19700.0000 - 20200.0000 MHz	250MG7W		DIGITAL DATA AND VOICE

19700.0000 - 20200.0000 MHz	100KG7W	DIGITAL DATA AND VOICE
18300.0000 - 18800.0000 MHz	250MG7W	DIGITAL DATA AND VOICE
18300.0000 - 18800.0000 MHz	100KG7W	DIGITAL DATA AND VOICE

Points of Communication:

1 - PERMITTED LIST - ()

1 - SES-15 (S2951) - (129.15 W.L)

SES-MOD-20170706-00732 E E080108 GATR Technologies 06/30/2008 - 06/30/2023
 Application for Modification Date Effective: 09/11/2017
 Grant of Authority

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

SITE ID: Remote4
 LOCATION: (4.0METER), 50 UNITS, CONUS, AK, HI

ANTENNA ID: 4	4 meters	GATR	GATR-COM4.0
14000.0000 - 14500.0000 MHz	32M0G7W	73.60 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	7M26G7W	67.20 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	6M67G7W	66.80 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	512KG7W	55.70 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	3M86G7W	64.40 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	24M0G7W	72.40 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	1M00G7W	58.60 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	16M0G7W	70.60 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	128KG7W	49.70 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	10M0G7W	68.60 dBW	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	7M26G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	6M67G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	512KG7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	3M86G7W		DIGITAL DATA, VOICE, AND VIDEO

11700.0000 - 12200.0000 MHz	32M0G7W	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	24M0G7W	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	1M00G7W	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	16M0G7W	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	128KG7W	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	10M0G7W	DIGITAL DATA, VOICE, AND VIDEO

SITE ID: Remote1
LOCATION: (2.4METER), 250 UNITS, CONUS, AK, HI, GA

ANTENNA ID: 1	2.4 meters	GATR	GATR-COM2.4
14000.0000 - 14500.0000 MHz	7M62G7W	60.14 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	3M86G7W	60.14 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	56K0G7W	45.60 dBW	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	7M62G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	3M86G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	56K0G7W		DIGITAL DATA, VOICE, AND VIDEO

SITE ID: Remote2
LOCATION: (1.8METER), 250 UNITS, CONUS, AK, HI

ANTENNA ID: 2	1.8 meters	GATR	GATR-COM1.8
14000.0000 - 14500.0000 MHz	320KG7W	49.20 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	6M67G7W	59.40 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	56K0G7W	43.20 dBW	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	320KG7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	6M67G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	56K0G7W		DIGITAL DATA, VOICE, AND VIDEO

SITE ID: Remote3
LOCATION: (1.2METER), 250 UNITS, CONUS, AK, HI

ANTENNA ID: 3	1.2 meters	GATR	GATR-COM1.2
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14000.0000 - 14500.0000 MHz	320KG7W	44.60 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	3M86G7W	55.40 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	56K0G7W	37.10 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	6M67G7W	57.80 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	7M26G7W	57.80 dBW	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	320KG7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	3M86G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	56K0G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	6M67G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	7M26G7W		DIGITAL DATA, VOICE, AND VIDEO

SITE ID: Remote5
LOCATION: (0.75METER), 250 UNITS, CONUS, AK, HI

ANTENNA ID: 5	0.75 meters	GATR TECHNOLOGIES	GATR-FLEX-0.75M.
14000.0000 - 14500.0000 MHz	7M26G7W	50.06 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	6M67G7W	49.69 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	56K0G7W	47.32 dBW	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	7M26G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	6M67G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	56K0G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	3M86G7W		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	320KG7W		DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	3M86G7W	36.50 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	320KG7W	28.93 dBW	DIGITAL DATA, VOICE, AND VIDEO

Points of Communication:

- Remote1 - PERMITTED LIST - ()
- Remote2 - PERMITTED LIST - ()
- Remote3 - PERMITTED LIST - ()

Remote4 - PERMITTED LIST - ()

Remote5 - PERMITTED LIST - ()

SES-MOD-20170707-00741 E E000296 Intelsat License LLC

Application for Modification

08/09/2010 - 08/09/2025

Grant of Authority

Date Effective: 09/12/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 17625 TECHNOLOGY BLVD (MTN-C92), WASHINGTON, HAGERSTOWN, MD

39 ° 35 ' 54.00 " N LAT.

77 ° 45 ' 35.00 " W LONG.

ANTENNA ID:	MTN-C92	9 meters	VERTEX COMM.	9 KPC
	5925.0000 - 6425.0000 MHz		72M0G7W 86.50 dBW	DIGITAL DATA, VOICE AND VIDEO SERVICES
	5925.0000 - 6425.0000 MHz		660KF2D 73.00 dBW	DIGITAL DATA, VOICE AND VIDEO SERVICES
	5925.0000 - 6425.0000 MHz		56K0G7W 62.30 dBW	DIGITAL DATA, VOICE AND VIDEO SERVICES
	5925.0000 - 6425.0000 MHz		1M08F2D 75.10 dBW	DIGITAL DATA, VOICE AND VIDEO SERVICES
	5925.0000 - 6425.0000 MHz		900KF9D 74.30 dBW	TT&C
	5925.0000 - 6425.0000 MHz		800KF9D 73.80 dBW	TT&C
	3700.0000 - 4200.0000 MHz		900KF9D	TT&C
	3700.0000 - 4200.0000 MHz		660KF2D	TT&C
	3700.0000 - 4200.0000 MHz		250KG9D	TT&C
	3700.0000 - 4200.0000 MHz		1M08F2D	TT&C
	3625.0000 - 4200.0000 MHz		72M0G7W	DIGITAL DATA, VOICE AND VIDEO SERVICES
	3625.0000 - 4200.0000 MHz		56K0G7W	DIGITAL DATA, VOICE AND VIDEO SERVICES
	3625.0000 - 4200.0000 MHz		800KF9D	TT&C
	6424.5000 - 6424.5000 MHz		850KF7D 84.70 dBW	TT&C
	6424.5000 - 6424.5000 MHz		1M20F7D 84.70 dBW	TT&C

5853.0000 - 5853.0000 MHz	850KF7D	84.70 dBW	TT&C
5853.0000 - 5853.0000 MHz	1M20F7D	84.70 dBW	TT&C
4199.2500 - 4199.2500 MHz	500KF7D		TT&C
4198.7500 - 4198.7500 MHz	500KF7D		TT&C
4198.2500 - 4198.2500 MHz	500KF7D		TT&C
4197.7500 - 4197.7500 MHz	500KF7D		TT&C

Points of Communication:

- 1 - INTELSAT 35e(S2959) - (34.5 W.L.)
- 1 - INTELSAT 37e (S2972) - (18.0 W.L.)
- 1 - PERMITTED LIST - ()
- 1 - SIRIUS FM 5 - (96 W.L.)

SES-MOD-20170707-00742	E KA275	Intelsat License LLC	03/31/2009 - 03/31/2024
Application for Modification			Date Effective: 09/12/2017
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 17625 TECHNOLOGY BLVD, WASHINGTON, HAGERSTOWN, MD
39 ° 35 ' 55.00 " N LAT. 77 ° 45 ' 35.00 " W LONG.

ANTENNA ID:	C90	19 meters	GD SATCOM	19M CFPA
6389.0000 - 6391.0000 MHz	800KGXD	90.00 dBW	TELEMETRY SIGNAL	
6359.0000 - 6361.0000 MHz	800KGXD	90.00 dBW	TELEMETRY SIGNAL	
6329.0000 - 6331.0000 MHz	800KGXD	90.00 dBW	TELEMETRY SIGNAL	
6271.0000 - 6273.0000 MHz	800KGXD	90.00 dBW	TELEMETRY SIGNAL	
6217.0000 - 6219.0000 MHz	800KGXD	82.10 dBW	TELEMETRY SIGNAL	
6172.0000 - 6178.0000 MHz	800KFXD	93.00 dBW	TTC&M	
6172.0000 - 6178.0000 MHz	800KFXD	93.00 dBW	COMMAND/RANGING	
6135.0000 - 6137.0000 MHz	800KGXD	90.00 dBW	TELEMETRY SIGNAL	

6078.0000 - 6080.0000 MHz	800KGXD	90.00 dBW	TELEMETRY SIGNAL
5961.0000 - 5963.0000 MHz	800KGXD	90.00 dBW	TELEMETRY SIGNAL
5925.0000 - 6425.0000 MHz	1M50F3X	85.74 dBW	TTC&M
5925.0000 - 6425.0000 MHz	800KFXD	93.00 dBW	TTC&M COMMAND AND RANGING CARRIER
5925.0000 - 6425.0000 MHz	NON	56.40 dBW	TT&C RANGING
5925.0000 - 6425.0000 MHz	1M0KF2D	81.58 dBW	TT&C RANGING
5925.0000 - 6425.0000 MHz	660KF2D	79.77 dBW	TT&C RANGING
5925.0000 - 6425.0000 MHz	72M0G7W	94.66 dBW	DIGITAL, DATA
5925.0000 - 6425.0000 MHz	56K0G7W	69.06 dBW	DIGITAL, DATA
5850.0000 - 5925.0000 MHz	800KGXD	90.00 dBW	TTC&M
3700.0000 - 4200.0000 MHz	800KFXD		TTC&M
3700.0000 - 4200.0000 MHz	800KGXD		TTC&M
3700.0000 - 4200.0000 MHz	800KFXD		TELEMETRY/RANGING
3700.0000 - 4200.0000 MHz	1M50F3X		TTC&M
3700.0000 - 4200.0000 MHz	NON		TT&C RANGING
3700.0000 - 4200.0000 MHz	1M0KF2D		TT&C RANGING
3700.0000 - 4200.0000 MHz	660KF2D		TT&C RANGING
3700.0000 - 4200.0000 MHz	72M0G7W		TT&C RANGING
3700.0000 - 4200.0000 MHz	56K0G7W		TT&C RANGING
3625.0000 - 3700.0000 MHz	1M50F3X		TTC&M
3625.0000 - 3700.0000 MHz	800KGXD		TTC&M
3625.0000 - 3700.0000 MHz	800KFXD		TTC&M COMMAND AND RANGING CARRIER
6424.5000 - 6424.5000 MHz	850KF7D	90.30 dBW	TT&C
6424.5000 - 6424.5000 MHz	1M20F7D	90.30 dBW	TT&C
5853.0000 - 5853.0000 MHz	850KF7D	90.30 dBW	TT&C

5853.0000 - 5853.0000 MHz	1M20F7D	90.30 dBW	TT&C
4199.2500 - 4199.2500 MHz	500KF7D		TT&C
4198.7500 - 4198.7500 MHz	500KF7D		TT&C
4198.2500 - 4198.2500 MHz	500KF7D		TT&C
4197.7500 - 4197.7500 MHz	500KF7D		TT&C

Points of Communication:

- 1 - INTELSAT 35e(S2959) - (34.5 W.L.)
- 1 - INTELSAT 37e (S2972) - (18.0 W.L.)
- 1 - INTELSAT 805 (S2404) - (304.5 E.L.)
- 1 - INTELSAT AOR - (310.0 E.L.)
- 1 - INTELSAT AOR - (325.5 E.L.)
- 1 - INTELSAT AOR - (328.5 E.L.)
- 1 - INTELSAT AOR - (330.5 E.L.)
- 1 - INTELSAT AOR - (332.5 E.L.)
- 1 - INTELSAT AOR - (335.5 E.L.)
- 1 - INTELSAT AOR - (340.0 E.L.)
- 1 - INTELSAT AOR - (342.0 E.L.)
- 1 - INTELSAT AOR(S2398) - (307.0 E.L.)
- 1 - New Skies 806 - (319.5 E.L.)
- 1 - PERMITTED LIST - ()

SES-MOD-20170707-00744 E E030071 Intelsat License LLC

Application for Modification

08/22/2003 - 08/22/2018

Grant of Authority

Date Effective: 09/12/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 17633 TECHNOLOGY BLVD., WASHINGTON, HAGERSTOWN, MD
 39 ° 35 ' 57.90 " N LAT. 77 ° 45 ' 17.30 " W LONG.

ANTENNA ID: 1 16.4 meters VERTEX 16.4 THC

6681.0000 - 6725.0000 MHz	1M00G7W	54.50 dBW	DIGITAL, DATA
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6681.0000 - 6725.0000 MHz	36M0G7W	70.00 dBW	DIGITAL, DATA
6681.0000 - 6725.0000 MHz	44M0G7W	70.90 dBW	DIGITAL, DATA
6669.0000 - 6681.0000 MHz	12M0G7W	62.30 dBW	DIGITAL, DATA
6669.0000 - 6681.0000 MHz	1M00G7W	51.50 dBW	DIGITAL, DATA
6425.0000 - 6669.0000 MHz	1M00G7W	54.50 dBW	DIGITAL, DATA
6425.0000 - 6669.0000 MHz	36M0G7W	70.00 dBW	DIGITAL, DATA
6425.0000 - 6669.0000 MHz	62M5G7W	72.40 dBW	DIGITAL, DATA
6421.0000 - 6426.0000 MHz	1M20FXD	81.10 dBW	COMMAND AND RANGING
5925.0000 - 6425.0000 MHz	36M0F8W	83.00 dBW	ANALOG VIDEO WITH ASSOCIATED AUDIO CARRIERS
5925.0000 - 6425.0000 MHz	800KFXW	79.30 dBW	COMMAND AND RANGE CARRIER FOR SATELLITE CONTROL
5925.0000 - 6425.0000 MHz	72M0G7W	83.00 dBW	DIGITAL DATA CARRIER
5925.0000 - 6425.0000 MHz	100KG7D	70.30 dBW	DIGITAL, DATA
5850.0000 - 5925.0000 MHz	72M0G7W	83.00 dBW	DIGITAL DATA CARRIER
5850.0000 - 5925.0000 MHz	100KG7D	70.30 dBW	DIGITAL, DATA
5850.0000 - 5925.0000 MHz	36M0F8W	83.00 dBW	ANALOG VIDEO WITH ASSOCIATED AUDIO CARRIERS
5850.0000 - 5925.0000 MHz	800KFXW	79.30 dBW	COMMAND AND RANGE CARRIER FOR SATELLITE CONTROL
5850.0000 - 5925.0000 MHz	1M00G7W	80.30 dBW	DIGITAL, DATA
5850.0000 - 5925.0000 MHz	36M0G7W	82.00 dBW	DIGITAL, DATA
5850.0000 - 5925.0000 MHz	62M5G7W	82.00 dBW	DIGITAL, DATA
5850.0000 - 5854.0000 MHz	850KG7D	79.60 dBW	COMMAND AND RANGING
5850.0000 - 5853.5000 MHz	850KFXD	79.60 dBW	COMMAND AND RANGING
5850.0000 - 5853.5000 MHz	1M20FXD	81.10 dBW	COMMAND AND RANGING
3700.0000 - 4200.0000 MHz	36M0F8W		ANALOG VIDEO WITH ASSOCIATED AUDIO CARRIERS
3700.0000 - 4200.0000 MHz	800KFXW		COMMAND AND RANGE CARRIER FOR SATELLITE CONTROL

3700.0000 - 4200.0000 MHz	72M0G7W		DIGITAL, DATA
3700.0000 - 4200.0000 MHz	100KG7D		DIGITAL, DATA
3625.0000 - 3700.0000 MHz	72M0G7W		DIGITAL VIDEO WITH ASSOCIATED AUDIO CARRIERS
3625.0000 - 3700.0000 MHz	36M0F8W		ANALOG VIDEO WITH ASSOCIATED AUDIO CARRIERS
3625.0000 - 3700.0000 MHz	100KG7D		DIGITAL, DATA
3625.0000 - 3700.0000 MHz	800KFXW		COMMAND AND RANGE CARRIER FOR SATELLITE CONTROL
6424.5000 - 6424.5000 MHz	850KF7D	83.00 dBW	TT&C
6424.5000 - 6424.5000 MHz	1M20F7D	83.00 dBW	TT&C
5853.0000 - 5853.0000 MHz	850KF7D	83.00 dBW	TT&C
5853.0000 - 5853.0000 MHz	1M20F7D	83.00 dBW	TT&C
4199.2500 - 4199.2500 MHz	500KF7D		TT&C
4198.7500 - 4198.7500 MHz	500KF7D		TT&C
4198.2500 - 4198.2500 MHz	500KF7D		TT&C
4197.7500 - 4197.7500 MHz	500KF7D		TT&C

Points of Communication:

- 1 - INTELSAT 29e (S2913) - (50.0 W.L.)
- 1 - INTELSAT 35e(S2959) - (34.5 W.L.)
- 1 - INTELSAT 805 (S2404) - (304.5 E.L.)
- 1 - INTELSAT AOR - (310.0 E.L.)
- 1 - INTELSAT AOR - (325.5 E.L.)
- 1 - INTELSAT AOR - (328.5 E.L.)
- 1 - INTELSAT AOR - (330.5 E.L.)
- 1 - INTELSAT AOR - (332.5 E.L.)
- 1 - INTELSAT AOR - (335.5 E.L.)
- 1 - INTELSAT AOR - (340.0 E.L.)
- 1 - INTELSAT AOR - (342.0 E.L.)

1 - PERMITTED LIST - ()

SES-RWL-20170724-00798 E E020101 Telesat Network Services, Inc.
 Renewal
 Grant of Authority

09/17/2017 - 09/17/2032
 Date Effective: 09/08/2017

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

SITE ID: REMOTE 0.95M
LOCATION: VSAT (0.95M), CONUS, (5000 UNITS)

ANTENNA ID:	0.95M/R	0.95 meters	RAYTHEON	SMDS2100
	14000.0000 - 14500.0000 MHz	324KG7W	44.70 dBW	QPSK 144 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	842KG7W	44.70 dBW	QPSK 384 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	4M41G7W	44.70 dBW	QPSK 2048 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	3M17G7W	49.50 dBW	QPSK 2048 KBPS, RATE 1/2 CODE
	14000.0000 - 14500.0000 MHz	360KG7W	44.70 dBW	QPSK 144 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	936KG7W	44.70 dBW	QPSK 384 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	2M45G7W	44.70 dBW	QPSK 1024 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	4M90G7W	44.70 dBW	QPSK 2048 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	360KG7W	41.70 dBW	QPSK 144 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	936KG7W	41.70 dBW	QPSK 384 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	2M45G7W	41.70 dBW	QPSK 1024 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	4M90G7W	41.70 dBW	QPSK 2048 KBPS, CONCATENATED CODE
	11700.0000 - 12200.0000 MHz	8M79G7W		QPSK 8MBPS HUB OUTBOUND TO VSAT
	11700.0000 - 12200.0000 MHz	3M91G7W		QPSK 3MBPS HUB OUTBOUND TO VSAT

11700.0000 - 12200.0000 MHz	54M0G7W		QPSK 48MBPS 2/3 FEC
SITE ID: REMOTE 1.2M			
LOCATION: VSAT (1.2M), CONUS, (5000 UNITS)			
ANTENNA ID: 1.2M/P	1.2 meters	PRODELIN	1134
14000.0000 - 14500.0000 MHz	324KG7W	46.00 dBW	QPSK 144 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	842KG7W	46.00 dBW	QPSK 384 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	4M41G7W	46.00 dBW	QPSK 2048 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	3M17G7W	49.50 dBW	QPSK 2048 KBPS 1/2 FEC
14000.0000 - 14500.0000 MHz	380KG7W	43.30 dBW	QPSK 256 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	750KG7W	43.30 dBW	QPSK 512 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	1M50G7W	43.30 dBW	QPSK 1024 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	3M00G7W	43.30 dBW	QPSK 2048 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	360KG7W	43.10 dBW	QPSK 144 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	936KG7W	43.10 dBW	QPSK 384 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	2M45G7W	43.10 dBW	QPSK 1024 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	4M90G7W	43.10 dBW	QPSK 2048 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	360KG7W	43.30 dBW	QPSK 144 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	936KG7W	43.30 dBW	QPSK 384 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	2M45G7W	43.30 dBW	QPSK 1024 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	4M90G7W	43.30 dBW	QPSK 2048 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	3M91G7W		QPSK 3MBPS HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	8M79G7W		QPSK 8MBPS HUB OUTBOUND TO VSAT

11700.0000 - 12200.0000 MHz	54M0G7W		QPSK 48MBPS 2/3 FEC
SITE ID: REMOTE 5			
LOCATION: VSAT (0.96M), CONUS, (5000 UNITS)			
ANTENNA ID: 0.96M/CM	0.96 meters	CHANNEL MASTER	TYPE 960
14000.0000 - 14500.0000 MHz	380KG7W	44.20 dBW	QPSK 256 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	750KG7W	44.20 dBW	QPSK 512 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	1M50G7W	44.20 dBW	QPSK 1024 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	3M00G7W	44.20 dBW	QPSK 2048 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	380KG7W	38.20 dBW	QPSK 256 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	750KG7W	38.20 dBW	QPSK 512 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	1M50G7W	38.20 dBW	QPSK 1024 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	3M00G7W	38.20 dBW	QPSK 2048 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	360KG7W	44.20 dBW	QPSK 144 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	936KG7W	44.20 dBW	QPSK 384 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	2M45G7W	44.20 dBW	QPSK 1024 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	4M90G7W	44.20 dBW	QPSK 2048 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	360KG7W	38.20 dBW	QPSK 144 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	936KG7W	38.20 dBW	QPSK 384 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	2M45G7W	38.20 dBW	QPSK 1024 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	4M90G7W	38.20 dBW	QPSK 2048 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	8M79G7W		QPSK 8MBPS HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	3M91G7W		QPSK 3MBPS HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	54M0G7W		QPSK 48MBPS 2/3 FEC

SITE ID: REMOTE 6
 LOCATION: VSAT (1.2M), CONUS, (5000 UNITS)

ANTENNA ID:	1.2M.CM	1.2 meters	CHANNEL MASTER	TYPE 120	
			380KG7W	46.30 dBW	QPSK 256 KBPS, TURBO CODE
			750KG7W	46.30 dBW	QPSK 512 KBPS, TURBO CODE
			1M50G7W	46.30 dBW	QPSK 1024 KBPS, TURBO CODE
			3M00G7W	46.30 dBW	QPSK 2048 KBPS, TURBO CODE
			380KG7W	43.30 dBW	QPSK 256 KBPS, TURBO CODE
			750KG7W	43.30 dBW	QPSK 512 KBPS, TURBO CODE
			1M50G7W	43.30 dBW	QPSK 1024 KBPS, TURBO CODE
			3M00G7W	43.30 dBW	QPSK 2048 KBPS, TURBO CODE
			360KG7W	46.30 dBW	QPSK 144 KBPS, CONCATENATED CODE
			936KG7W	46.30 dBW	QPSK 384 KBPS, CONCATENATED CODE
			2M45G7W	46.30 dBW	QPSK 1024 KBPS, CONCATENATED CODE
			4M90G7W	46.30 dBW	QPSK 2048 KBPS, CONCATENATED CODE
			360KG7W	43.30 dBW	QPSK 144 KBPS, CONCATENATED CODE
			936KG7W	43.30 dBW	QPSK 384 KBPS, CONCATENATED CODE
			2M45G7W	43.30 dBW	QPSK 1024 KBPS, CONCATENATED CODE
			4M90G7W	43.30 dBW	QPSK 2048 KBPS, CONCATENATED CODE
			3M91G7W		QPSK 3MBPS HUB OUTBOUND TO VSAT
			8M79G7W		QPSK 8MBPS HUB OUTBOUND TO VSAT
			54M0G7W		QPSK 48MBPS 2/3 FEC

SITE ID: REMOTE 7
LOCATION: VSAT (1.8M), CONUS, (5000 UNITS)

ANTENNA ID:	1.8M/CM	1.8 meters	CHANNEL MASTER	TYPE 180
	14000.0000 - 14500.0000 MHz	380KG7W	52.60 dBW	QPSK 256 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	750KG7W	52.80 dBW	QPSK 512 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	1M50G7W	52.80 dBW	QPSK 1024 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	3M00G7W	52.80 dBW	QPSK 2048 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	360KG7W	52.30 dBW	QPSK 144 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	936KG7W	52.80 dBW	QPSK 384 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	2M45G7W	52.80 dBW	QPSK 1024 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	4M90G7W	52.80 dBW	QPSK 2048 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	380KG7W	49.80 dBW	QPSK 256 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	750KG7W	49.80 dBW	QPSK 512 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	1M50G7W	49.80 dBW	QPSK 1024 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	3M00G7W	49.80 dBW	QPSK 2048 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	360KG7W	49.80 dBW	QPSK 144 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	936KG7W	49.80 dBW	QPSK 384 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	2M45G7W	49.80 dBW	QPSK 1024 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	4M90G7W	49.80 dBW	QPSK 2048 KBPS, CONCATENATED CODE
	11700.0000 - 12200.0000 MHz	8M79G7W		QPSK 8MBPS HUB OUTBOUND TO VSAT
	11700.0000 - 12200.0000 MHz	3M91G7W		QPSK 3MBPS HUB OUTBOUND TO VSAT
	11700.0000 - 12200.0000 MHz	54M0G7W		QPSK 48MBPS 2/3 FEC

SITE ID: REMOTE 8
LOCATION: VSAT (2.4M), CONUS, (5000 UNITS)

ANTENNA ID:	2.4M/CM	2.4 meters	CHANNEL MASTER	TYPE 240
	14000.0000 - 14500.0000 MHz	380KG7W	55.10 dBW	QPSK 256 KBPS, TIRBO CODE
	14000.0000 - 14500.0000 MHz	750KG7W	58.00 dBW	QPSK 512 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	1M50G7W	58.30 dBW	QPSK 1024 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	3M00G7W	58.30 dBW	QPSK 2048 KBPS, TURBO CODE
	14000.0000 - 14500.0000 MHz	360KG7W	54.80 dBW	QPSK 144 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	936KG7W	58.30 dBW	QPSK 384 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	2M45G7W	58.30 dBW	QPSK 1024 KBPS, CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	4M90G7W	58.30 dBW	QPSK 2048 KBPS, CONCATENATED CODE
	11700.0000 - 12200.0000 MHz	8M79G7W		QPSK 8MBPS HUB OUTBOUND TO VSAT
	11700.0000 - 12200.0000 MHz	3M91G7W		QPSK 3MBPS HUB OUTBOUND TO VSAT
	11700.0000 - 12200.0000 MHz	54M0G7W		QPSK 48MBPS 2/3 FEC

SITE ID: REMOTE9P
LOCATION: VSAT (1.2M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

ANTENNA ID:	1.2M PAT	1.2 meters	PATRIOT	TXFCC-120KU
	14000.0000 - 14500.0000 MHz	3M00G7W	46.50 dBW	2048 KBPS 2/3FEC TURBO CODE
	14000.0000 - 14500.0000 MHz	380KG7W	46.50 dBW	256 KBPS 2/3FEC TURBO CODE
	14000.0000 - 14500.0000 MHz	4M90G7W	46.00 dBW	QPSK, 2048 KBPS, 1/2 FEC CONCATENATED CODE
	14000.0000 - 14500.0000 MHz	360KG7W	43.30 dBW	QPSK, 144 KBPS, 1/2 FEC CONCATENATED CODE
	11700.0000 - 12200.0000 MHz	54M0G7W		48 MBPS 2/3 FEC HUB OUTBOUND TO VSAT
	11700.0000 - 12200.0000 MHz	3M91G7W		3 MBPS 2/3 FEC HUB OUTBOUND TO VSAT

11700.0000 - 12200.0000 MHz	3M91G7W		QPSK, 3 MBPS 2/3 FEC HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	54M0G7W		QPSK, 48 MBPS 2/3 FEC HUB OUTBOUND TO VSAT

SITE ID: REMOTE10P
LOCATION: VSAT (1.8M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

ANTENNA ID: 1.8M PAT	1.8 meters	PATRIOT	TXFCC-180KU
14000.0000 - 14500.0000 MHz	3M00G7W	56.00 dBW	QPSK, 2048 KBPS, 2/3 FEC TURBOCODING
14000.0000 - 14500.0000 MHz	380KG7W	56.00 dBW	QPSK, 256 KBPS, 2/3 FEC TURBOCODING
11700.0000 - 12200.0000 MHz	3M00G7W		QPSK, 2048 KBPS, 2/3 FEC TURBOCODING
11700.0000 - 12200.0000 MHz	380KG7W		QPSK, 256 KBPS, 2/3 FEC TURBOCODING

SITE ID: REMOTE8P
LOCATION: VSAT (2.4M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

ANTENNA ID: 2.4M PAT	2.4 meters	PATRIOT	TXFCC-240KU
14000.0000 - 14500.0000 MHz	380KG7W	58.50 dBW	QPSK, 256 KBPS, TURBOCODE, 2/3 FEC
14000.0000 - 14500.0000 MHz	3M00G7W	58.50 dBW	QPSK 2048 KBPS, TURBOCODE, 2/3 FEC
11700.0000 - 12200.0000 MHz	3M91G7W		QPSK, 3 MBPS, HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	54M0G7W		QPSK, 48 MBPS, HUB OUTBOUND TO VSAT

SITE ID: REMOTE11 PROD
LOCATION: VSAT (2.4M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

ANTENNA ID: 2.4M PROD	2.4 meters	PRODELIN	P24
14000.0000 - 14500.0000 MHz	380KG7W	54.10 dBW	QPSK, 256KBPS, 2/3 FEC TURBOCODING
14000.0000 - 14500.0000 MHz	750KG7W	52.50 dBW	QPSK, 512 KBPS, 2/3 FEC TURBOCODING
14000.0000 - 14500.0000 MHz	1M50G7W	52.80 dBW	QPSK, 1024 KBPS, 2/3 FEC TURBOCODING

14000.0000 - 14500.0000 MHz	3M00G7W	52.80 dBW	QPSK, 2048 KBPS, 2/3 FEC TURBOCODING
14000.0000 - 14500.0000 MHz	360KG7W	52.80 dBW	QPSK, 144 KBPS, 2/3 FEC CONCATENATED CODE
14000.0000 - 14500.0000 MHz	4M90G7W	52.80 dBW	QPSK, 2048 KBPS, 2/3 FEC CONCATENATED CODE
11700.0000 - 12200.0000 MHz	54M0G7W		QPSK 48 MBPS 2/3 FEC
11700.0000 - 12200.0000 MHz	3M91G7W		QPSK 3 MBPS HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	8M79G7W		QPSK 8 MBPS HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	380KG7W		QPSK, 256 KBPS, 2/3 FEC TURBOCODING
11700.0000 - 12200.0000 MHz	750KG7W		QPSK, 512 KBPS, 2/3 FEC TURBOCODING
11700.0000 - 12200.0000 MHz	1M50G7W		QPSK, 1024 KBPS, 2/3 FEC TURBOCODING
11700.0000 - 12200.0000 MHz	3M00G7W		QPSK, 2048 KBPS, 2/3 FEC TURBOCODING
11700.0000 - 12200.0000 MHz	360KG7W		QPSK, 144 KBPS, 2/3 FEC CONCATENATED CODE
11700.0000 - 12200.0000 MHz	4M90G7W		QPSK, 2048 KBPS, 2/3 FEC CONCATENATED CODE

SITE ID: REMOTE 1.8M
LOCATION: VSAT (1.8M), CONUS, (5000 UNITS)

ANTENNA ID:	1.8M/P	1.8 meters	PRODELIN	1194
14000.0000 - 14500.0000 MHz	324KG7W	49.70 dBW	QPSK 144 KBPS, CONCATENATED CODE	
14000.0000 - 14500.0000 MHz	842KG7W	49.70 dBW	QPSK 384 KBPS, CONCATENATED CODE	
14000.0000 - 14500.0000 MHz	4M41G7W	49.70 dBW	QPSK 2048 KBPS, CONCATENATED CODE	
14000.0000 - 14500.0000 MHz	3M17G7W	52.70 dBW	QPSK 2048 KBPS, RATE 1/2 CODE	
14000.0000 - 14500.0000 MHz	380KG7W	52.50 dBW	QPSK 256 KBPS, TURBO CODE	
14000.0000 - 14500.0000 MHz	750KG7W	52.80 dBW	QPSK 512 KBPS, TURBO CODE	

14000.0000 - 14500.0000 MHz	1M50G7W	52.80 dBW	QPSK 1024 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	3M00G7W	52.80 dBW	QPSK 2048 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	360KG7W	52.20 dBW	QPSK 144 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	936KG7W	52.80 dBW	QPSK 384 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	2M45G7W	52.80 dBW	QPSK 1024 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	4M90G7W	52.80 dBW	QPSK 2048 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	380KG7W	49.80 dBW	QPSK 256 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	750KG7W	49.80 dBW	QPSK 512 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	1M50G7W	49.80 dBW	QPSK 1024 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	3M00G7W	49.80 dBW	QPSK 2048 KBPS, TURBO CODE
14000.0000 - 14500.0000 MHz	360KG7W	49.80 dBW	QPSK 144 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	936KG7W	49.80 dBW	QPSK 384 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	2M45G7W	49.80 dBW	QPSK 1024 KBPS, CONCATENATED CODE
14000.0000 - 14500.0000 MHz	4M90G7W	49.70 dBW	QPSK 2048 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	8M79G7W		QPSK 8MBPS HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	3M91G7W		QPSK 3MBPS HUB OUTBOUND TO VSAT
11700.0000 - 12200.0000 MHz	54M0G7W		QPSK 48MBPS 2/3 FEC

SITE ID: HUB 9.3-M
LOCATION: 1305 INDUSTRIAL PARK ROAD (9.3M. HUB), SHENANDOAH, MT. JACKSON, VA
38 ° 43 ' 47.42 " N LAT. 78 ° 39 ' 29.92 " W LONG.

ANTENNA ID: 9.3-MT. J 9.3 meters VERTEX 9KPC

14000.0000 - 14500.0000 MHz	3M91G7W	67.00 dBW	QPSK 3MBPS HUB OUTBOUND TO VSAT
14000.0000 - 14500.0000 MHz	8M79G7W	66.70 dBW	QPSK 8MBPS HUB OUTBOUND TO VSAT

14000.0000 - 14500.0000 MHz	54M0G7W	78.30 dBW	QPSK 48MBPS 2/3 FEC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	168,768 KBPS 8PSK, FEC TPC, 0.879, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	152.256 KBPS 8PSK, FEC TPC, 0.793, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	112.512 KBPS QPSK, FEC TPC, 0.879, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	101.504 KBPS QPSK, FEC TPC, 0.793, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	68.224 KBPS QPSK, FEC TPC, 0.533, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	63.36 KBPS QPSK, FEC TPC, 0.495, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	55.168 KBPS QPSK, FEC TPC, 0.431, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	56.256 KBPS BPSK, FEC TPC, 0.879, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	27.584 KBPS BPSK, FEC TPC, 0.431, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	50.752 KBPS BPSK, FEC TPC, 0.793, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	34.112 KBPS BPSK, FC TPC, 0.533, SCPC
13800.0000 - 14500.0000 MHz	76K8G7W	77.20 dBW	31.68 KBPS BPSK, FEC TPC, 0.495, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	30.3255 MBPS 8PSK, FEC TPC, 0.879, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	27.3585 MBPS 8PSK, FEC TPC, 0.793, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	20.217 MBPS QPSK, FEC TPC, 0.879, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	18.239 MBPS QPSK, FEC TPC, 0.793, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	12.259 MBPS QPSK, FEC TPC, 0.533, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	11.385 MBPS QPSK, FEC TPC, 0.495, SCPC

13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	9.913 MBPS QPSK, FEC TPC, 0.431, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	10.1085 MBPS BPSK, FEC TPC, 0.879, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	9.1195 MBPS BPSK, FEC TPC, 0.793, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	6.1295 MBPS BPSK, FEC TPC, 0.533, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	5.6925 MBPS BPSK, FEC TPC, 0.495, SCPC
13800.0000 - 14500.0000 MHz	13M8G7W	77.20 dBW	4.9565 MBPS BPSK, FEC TPC, 0.431, SCPC
13800.0000 - 14500.0000 MHz	6M90G7W	77.20 dBW	9.1195 MBPS QPSK, FEC TPC, 0.793, SCPC
13800.0000 - 14500.0000 MHz	6M90G7W	77.20 dBW	5.6925 MBPS QPSK, FEC TPC, 0.495 SCPC
11700.0000 - 12200.0000 MHz	324KG7W		QPSK 144 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	842KG7W		QPSK 384 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	4M41G7W		QPSK 2048 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	3M17G7W		QPSK 2048 KBPS, RATE 1/2 CODE
11700.0000 - 12200.0000 MHz	380KG7W		QPSK 256 KBPS, TURBO CODE
11700.0000 - 12200.0000 MHz	750KG7W		QPSK 512 KBPS, TURBO CODE
11700.0000 - 12200.0000 MHz	1M50G7W		QPSK 1024 KBPS, TURBO CODE
11700.0000 - 12200.0000 MHz	3M00G7W		QPSK 2048 KBPS, TURBO CODE
11700.0000 - 12200.0000 MHz	360KG7W		QPSK 144 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	936KG7W		QPSK 384 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	2M45G7W		QPSK 1024 KBPS, CONCATENATED CODE
11700.0000 - 12200.0000 MHz	4M90G7W		QPSK 2048 KBPS, CONCATENATED CODE

11700.0000 - 12200.0000 MHz	3M45G1W	6.839625 MBPS BPSK, FEC TPC, 0.793, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	5.6925 MBPS BPSK, FEC TPC, 0.66, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	4.55975 MBPS QPSK, FEC TPC, 0.793, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	3.795 MBPS QPSK, FEC TPC, 0.66, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	3.06475 MBPS QPSK, FEC TPC, 0.533, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	2.4825 MBPS QPSK, FEC TPC, 0.431, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	2.279875 MBPS BPSK, FEC TPC, 0.793, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	1.8975 MBPS BPSK, FEC TPC, 0.66, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	1.532375 MBPS BPSK, FEC TPC, 0.533, TDMA
11700.0000 - 12200.0000 MHz	3M45G1W	1.239125 MBPS BPSK, FEC TPC, 0.431, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	152.256 KBPS 8PSK, FEC TPC, 0.793, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	126.72 KBPS 8PSK, FEC TPC, 0.66, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	101.504 KBPS QPSK, FEC TPC, 0.793, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	84.48 KBPS QPSK, FEC TPC, 0.66, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	68.224 KBPS QPSK, FEC TPC, 0.533, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	55.168 KBPS QPSK, FEC TPC, 0.431, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	50.752 KBPS BPSK, FEC TPC, 0.793, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	42.24 KBPS BPSK, FEC TPC, 0.66, TDMA
11700.0000 - 12200.0000 MHz	76K8G7W	34.112 KBPS BPSK, FEC TPC, 0.533, TDMA

11700.0000 - 12200.0000 MHz 76K8G7W 27.584 KBPS BPSK, FEC TPC, 0.431, TDMA

SITE ID: REMOTE13
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.2M. VSAT) ENSURE, CONUS, 5000 UNITS

ANTENNA ID: ENS 1.2 2W 1.2 meters PATRIOT TXFLY-120KU

14000.0000 - 14500.0000 MHz 356KG7W 45.50 dBW 395 QPSK

14000.0000 - 14500.0000 MHz 693KG7W 45.50 dBW 770 QPSK

11700.0000 - 12200.0000 MHz 356KG7W 395 QPSK

11700.0000 - 12200.0000 MHz 693KG7W 770 QPSK

SITE ID: REMOTE14
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.8M. VSAT) ENSURE, CONUS, 5000 UNITS

ANTENNA ID: ENS 1.8 2W 1.8 meters PATRIOT TXFLY-180KU

14000.0000 - 14500.0000 MHz 356KG7W 49.00 dBW 395 QPSK

14000.0000 - 14500.0000 MHz 693KG7W 49.00 dBW 770 QPSK

11700.0000 - 12200.0000 MHz 356KG7W 395 QPSK

11700.0000 - 12200.0000 MHz 693KG7W 770 QPSK

SITE ID: REMOTE15
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.8M. VSAT) ENSURE, CONUS, 5000 UNITS

ANTENNA ID: ENS 1.8 4W 1.8 meters PATRIOT TXFLY-180KU

14000.0000 - 14500.0000 MHz 356KG7W 51.70 dBW 395 QPSK

14000.0000 - 14500.0000 MHz 693KG7W 52.60 dBW 770 QPSK

11700.0000 - 12200.0000 MHz 356KG7W 395 QPSK

11700.0000 - 12200.0000 MHz 693KG7W 770 QPSK

SITE ID: REMOTE12
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.2M. VSAT) ENSURE, CONUS, 5000 UNITS

ANTENNA ID: ENS 1.2 4W 1.2 meters PATRIOT TXFLY-120KU

14000.0000 - 14500.0000 MHz 356KG7W 48.20 dBW 395 QPSK

14000.0000 - 14500.0000 MHz 693KG7W 48.20 dBW 770 QPSK

11700.0000 - 12200.0000 MHz	356KG7W	395 QPSK
11700.0000 - 12200.0000 MHz	693KG7W	770 QPSK

Points of Communication:

HUB 9.3-M - ESTRELA DO SUL 2 - (63 W.L.)

HUB 9.3-M - PERMITTED LIST - ()

REMOTE 0.95M - TELSTAR 11 - (37.5 W.L.)

REMOTE 1.2M - PERMITTED LIST - ()

REMOTE 1.8M - PERMITTED LIST - ()

REMOTE 6 - PERMITTED LIST - ()

REMOTE 7 - PERMITTED LIST - ()

REMOTE 8 - PERMITTED LIST - ()

REMOTE10P - PERMITTED LIST - ()

REMOTE11 PROD - PERMITTED LIST - ()

REMOTE12 - PERMITTED LIST - ()

REMOTE13 - PERMITTED LIST - ()

REMOTE14 - PERMITTED LIST - ()

REMOTE15 - PERMITTED LIST - ()

REMOTE8P - PERMITTED LIST - ()

REMOTE9P - PERMITTED LIST - ()

SES-RWL-20170725-00800 E E4707 WAND(TV) Partnership

Renewal

09/03/2017 - 09/03/2032

Grant of Authority

Date Effective: 09/07/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: MACON, DECATUR, IL

39 ° 49 ' 28.00 " N LAT.

88 ° 58 ' 3.00 " W LONG.

ANTENNA ID: 1

7 meters

SCIENTIFIC ATLANTA

8010

3700.0000 - 4200.0000 MHz

36000F9

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170726-00820 E E020223 GCI Communication Corp.
Renewal 10/09/2017 - 10/09/2032
Grant of Authority Date Effective: 09/06/2017

Class of Station: Fixed Earth Stations

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

SITE ID: Fort Yukon

LOCATION: No Street Address Available, Fort Yukon, AK

66 ° 34 ' 6.50 " N LAT.

145 ° 14 ' 44.20 " W LONG.

ANTENNA ID: 1	9.1 meters	Scientific - Atlanta	8009A
5925.0000 - 6425.0000 MHz	36M0D7D	76.80 dBW	Phase and amplitude modulated voice, video, and data services
5925.0000 - 6425.0000 MHz	6K72D7D	76.80 dBW	Phase and amplitude modulated voice, video, and data services
5925.0000 - 6425.0000 MHz	36M0G7D	76.80 dBW	Phase modulated voices, video, and data services
5925.0000 - 6425.0000 MHz	6K72G7D-	76.80 dBW	Phase modulated voices, video, and data services
3700.0000 - 4200.0000 MHz	45K0G7W		PSK modulation for telephony, facsimile and data
3700.0000 - 4200.0000 MHz	6K72D7D-		Phase and amplitude modulated voice, video, and data services
3700.0000 - 4200.0000 MHz	36M0G7D		Phase modulated voices, video, and data services
3700.0000 - 4200.0000 MHz	6K72G7D-		Phase modulated voices, video, and data services

Points of Communication:

Fort Yukon - ANIK F2 - (111.1 W.L.)

Fort Yukon - PERMITTED LIST - ()

SES-RWL-20170728-00828 E E020109 KMEX License Partnership, G.P.
Renewal 09/03/2017 - 09/03/2032
Grant of Authority Date Effective: 09/11/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: 5999 CENTER DRIVE, LOS ANGELES, LOS ANGELES, CA
 33 ° 58 ' 35.80 " N LAT. 118 ° 23 ' 17.50 " W LONG.

ANTENNA ID:	1	9.3 meters	VERTEX COMM.	KPC
6301.4000 - 6425.0000 MHz	36M0F8F	73.90 dBW	ANALOG VIDEO AND AUDIO SUBCARRIERS	
6301.4000 - 6425.0000 MHz	36M0G7F	73.90 dBW	DIGITAL VIDEO AND AUDIO SUBCARRIERS	
6192.7000 - 6271.0000 MHz	36M0F8F	73.90 dBW	ANALOG VIDEO AND AUDIO SUBCARRIERS	
6182.7000 - 6271.0000 MHz	36M0G7F	73.90 dBW	DIGITAL VIDEO AND AUDIO SUBCARRIERS	
6059.3000 - 6107.9000 MHz	36M0F8F	73.90 dBW	ANALOG VIDEO AND AUDIO SUBCARRIERS	
6049.3000 - 6107.9000 MHz	36M0G7F	73.90 dBW	DIGITAL VIDEO AND AUDIO SUBCARRIERS	
5939.8000 - 6009.0000 MHz	36M0F8F	73.90 dBW	ANALOG VIDEO AND AUDIO SUBCARRIERS	
5929.8000 - 6019.0000 MHz	36M0G7F	73.90 dBW	DIGITAL VIDEO AND AUDIO SUBCARRIERS	
3700.0000 - 4200.0000 MHz	36M0F8F	0.00 dBW	ANALOG VIDEO AND AUDIO SUBCARRIERS	
3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO AND AUDIO SUBCARRIERS	

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170731-00831 E E4792 KVOA Communications, LLC
 Renewal 09/17/2017 - 09/17/2032
 Grant of Authority Date Effective: 09/11/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: PIMA, TUCSON, AZ
 32 ° 14 ' 32.00 " N LAT. 110 ° 58 ' 30.00 " W LONG.

ANTENNA ID:	1	7 meters	SATCOM	1300 C
3700.0000 - 4200.0000 MHz	36000F9			

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170731-00832 E E020247 Nexstar Broadcasting, Inc.
Renewal 10/28/2017 - 10/28/2032
Grant of Authority Date Effective: 09/11/2017

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 4595 S. Dixie Ave., Montgomery, Dayton, OH

ANTENNA ID:	1	1.5 meters	Vertex	1.5 SMK
	14000.0000 - 14500.0000 MHz	9M00G7F	61.52 dBW	Digital Compressed Video
	11700.0000 - 12200.0000 MHz	9M00G7F	0.00 dBW	Digital Compressed Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170731-00845 E E020235 Hearst Stations Inc.
Renewal 10/25/2017 - 10/25/2032
Grant of Authority Date Effective: 09/11/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 3 TELEVISION CIRCLE KCRA, SACRAMENTO, SACRAMENTO, CA
38 ° 35 ' 16.80 " N LAT. 121 ° 29 ' 27.60 " W LONG.

ANTENNA ID:	1	3.8 meters	PRODELIN	1383
	14000.0000 - 14500.0000 MHz	5M25G7W	62.10 dBW	QPSK 5,500 KBPS 3/4 FEC WITH RS
	14000.0000 - 14500.0000 MHz	1M00G7W	54.60 dBW	QPSK 1,000 KBPS 3/4 FEC WITH RS
	14000.0000 - 14500.0000 MHz	2M70G7W	67.49 dBW	DIGITAL MCPC QPSK CARRIER USED FOR VIDEO, AUDIO, AND DATA
	14000.0000 - 14500.0000 MHz	5M50G7W	70.58 dBW	DIGITAL MCPC QPSK CARRIER USED FOR VIDEO, AUDIO, AND DATA
	14000.0000 - 14500.0000 MHz	8M00G7W	72.21 dBW	DIGITAL MCPC QPSK CARRIER USED FOR VIDEO, AUDIO, AND DATA

10950.0000 - 11200.0000 MHz	45K8G7W -	Combination of digital carriers, various FEC rates, various data rates, various modulation.
10950.0000 - 11200.0000 MHz	72M0G7W	Combination of digital carriers, various FEC rates, various data rates, various modulation.
10950.0000 - 11200.0000 MHz	36M0F3F	Standard Video

Points of Communication:

- Nuevo 9.3 Meter Ku D - INTELSAT 18 (S2817) - (180 E.L.)
- Nuevo 9.3 Meter Ku D - INTELSAT 1R (S2368) - (50.1 W.L)
- Nuevo 9.3 Meter Ku D - INTELSAT 23 - (53 W. L.)
- Nuevo 9.3 Meter Ku D - INTELSAT 805 (S2404) - (304.5 E.L.)
- Nuevo 9.3 Meter Ku D - PERMITTED LIST - ()

SES-RWL-20170801-00847 E E920559 Troy Cablevision, Inc.
Renewal 08/07/2017 - 08/07/2032
Grant of Authority Date Effective: 09/11/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 0.6 M N OF INTERSECTION GIBB & ELM ST., PIKE, TROY, AL
31 ° 48 ' 46.00 " N LAT. 85 ° 57 ' 9.00 " W LONG.

ANTENNA ID: 1 4.5 meters SCIENTIFIC-ATLANTA 4345 4.5 METER

3700.0000 - 4200.0000 MHz 25M0F8W

Points of Communication:

- 1 - PERMITTED LIST - ()

SES-RWL-20170811-00900 E E920489 SINCLAIR EUGENE LICENSEE, LLC
Renewal 08/14/2017 - 08/14/2032
Grant of Authority Date Effective: 09/11/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 4575 BLANTON ROAD, EUGENE, OR
44 ° 0 ' 6.00 " N LAT. 123 ° 6 ' 53.00 " W LONG.

ANTENNA ID: 1 4.6 meters ANDREW CORP. ESA46-124

1 - PERMITTED LIST - ()

SES-RWL-20170815-00919 E E020277 Nebraska Educational Telecommunications Commission
Renewal 10/01/2017 - 10/01/2032
Grant of Authority Date Effective: 09/12/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 1590 SOUTH MAPLE STREET, DAWES, CHADRON, NE
42 ° 48 ' 47.00 " N LAT. 103 ° 0 ' 22.00 " W LONG.

ANTENNA ID:	1	4.5 meters	DH SATELLITE	4.5METER
	3700.0000 - 4200.0000 MHz		36M0F8W	ANALOG VIDEO WITH ASSOCIATED SUBCARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO WITH ASSOCIATED SUBCARRIERS

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170815-00920 E WN30 Cable One, Inc.
Renewal 10/22/2017 - 10/22/2032
Grant of Authority Date Effective: 09/07/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: MEMORIAL DRIVE, BOLIVAR, CLEVELAND, MS
33 ° 43 ' 32.00 " N LAT. 90 ° 43 ' 53.00 " W LONG.

ANTENNA ID:	1	5 meters	SCIENTIFIC-ATLANTA	8008B
	3700.0000 - 4200.0000 MHz		36M0F8W	

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170823-00944 E E020199 Nebraska Educational Telecommunications Commission
Renewal 11/18/2017 - 11/18/2032
Grant of Authority Date Effective: 09/12/2017

Class of Station: Fixed Earth Stations

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

SITE ID: 1
LOCATION: 1800 NORTH 33RD STREET, LANCASTER, LINCOLN, NE
40 ° 49 ' 52.80 " N LAT. 96 ° 40 ' 17.10 " W LONG.

ANTENNA ID: 1 4.5 meters ANDREW CORP. ESA45-46

5925.0000 - 6425.0000 MHz 36M0G7W 72.70 dBW DIGITAL DATA, AUDIO, AND VIDEO

5925.0000 - 6425.0000 MHz 308KG7W 62.40 dBW DIGITAL DATA, AUDIO, AND VIDEO

3700.0000 - 4200.0000 MHz 36M0G7W DIGITAL DATA, AUDIO, AND VIDEO

3700.0000 - 4200.0000 MHz 308KG7W DIGITAL DATA, AUDIO, AND VIDEO

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170823-00945 E WY84 Community Television Co Inc
Renewal 10/05/2017 - 10/05/2032
Grant of Authority Date Effective: 09/07/2017

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: CHATSWORTH ROAD, GILMER, ELLIJAY, GA
34 ° 42 ' 50.00 " N LAT. 84 ° 29 ' 37.00 " W LONG.

ANTENNA ID: 1 4 meters US TOWER CO. USTC-4

3700.0000 - 4200.0000 MHz 36M0F9W

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170905-00976 E E020205 HNS License Sub, LLC
Renewal 09/27/2017 - 09/27/2032
Grant of Authority Date Effective: 09/05/2017

Class of Station: Earth Stations on-board Vessels/VSAT

Nature of Service: Fixed Satellite Service

SITE ID: ESV 1
LOCATION: AOR, POR, Gulf of Mexico, Caribbean Sea and navigable inland waters, Various

ANTENNA ID: 1 0.6 meters SeaTel Inc. 2406

14000.0000 - 14470.0000 MHz 200KG7D 31.40 dBW DIGITAL DATA SERVICES

14000.0000 - 14470.0000 MHz	4M59G7D	45.00 dBW	DIGITAL DATA SERVICES
11700.0000 - 12170.0000 MHz	1M60G7D		DIGITAL DATA SERVICES
11700.0000 - 12170.0000 MHz	36M0G7D		DIGITAL DATA SERVICES

SITE ID: ESV 2
LOCATION: AOR, POR, Gulf of Mexico,Caribbean Sea and navigable inland waters

ANTENNA ID: 2	0.6 meters	Azimuth	AZU-06
14000.0000 - 14470.0000 MHz	200KG7D	32.60 dBW	DIGITAL DATA SERVICES
14000.0000 - 14470.0000 MHz	3M33G7D	44.80 dBW	DIGITAL DATA SERVICES
11700.0000 - 12170.0000 MHz	1M60G7D		DIGITAL DATA SERVICES
11700.0000 - 12170.0000 MHz	36M0G7D		DIGITAL DATA SERVICES

Points of Communication:

ESV 1 - PERMITTED LIST - ()

ESV 2 - PERMITTED LIST - ()

SES-RWL-20170905-00977 E E020261 Illinois Valley Public Telecommunications Corp
Renewal 11/13/2017 - 11/13/2032
Grant of Authority Date Effective: 09/05/2017

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: (WTVP-TV), VARIOUS

ANTENNA ID: 1	2.4 meters	ANDREW CORPORATION	ES24SNG-LT-25
14000.0000 - 14500.0000 MHz	36M0G7W	74.44 dBW	ONE 36MBIT MCPC DIGITAL CARRIER FOR VOICE/ DATA
14000.0000 - 14500.0000 MHz	36M0F8W	74.44 dBW	ONE WIDEBAND 36MHZ MODULATION VIDEO CARRIER WITH ASSOCIATED AUDIO AND ATIS SUBCARRIERS
11700.0000 - 12200.0000 MHz	36M0G7W		ONE 36MBIT MCPC DIGITAL CARRIER FOR VOICE/ DATA
11700.0000 - 12200.0000 MHz	36M0F8W		ONE WIDEBAND 36MHZ MODULATION VIDEO CARRIER WITH ASSOCIATED AUDIO AND ATIS SUBCARRIERS

Points of Communication:

1 - PERMITTED LIST - ()

SES-RWL-20170908-00990 E E020216 Scripps Broadcasting Holdings LLC
Renewal 09/27/2017 - 09/27/2032
Grant of Authority Date Effective: 09/11/2017

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 3355 SOUTH VALLEY VIEW BLVD. (KTNV UPLINK TRUCK), VARIOUS

ANTENNA ID:	1	1.2 meters	AVL TECHNOLOGIES	1.2M DSGN
	14000.0000 - 14500.0000 MHz	24M0G7F	62.24 dBW	PSK DIGITAL VIDEO W/DIGITAL AUDIO/DATA
	11700.0000 - 12200.0000 MHz	24M0G7F		PSK DIGITAL VIDEO W/DIGITAL AUDIO/DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-STA-20170731-00848 E RBC Signals, LLC
Special Temporary Authority
Grant of Authority Date Effective: 09/11/2017

Class of Station:

On September 11, 2017, RBC Signals, LLC, was granted special temporary authority for 180-days, beginning September 11, 2017, to operate a fixed earth station in Deadhorse, AK to provide telemetry, tracking and command (TT&C) services to the "Red Diamond", "Green Diamond" and "Blue Diamond" satellites, licensed by the United Kingdom, in the 399.926-399.950 MHz (Earth-to-space) and 401.05-401.25 MHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20170821-00935 E KB27 SES Americom, Inc.
Special Temporary Authority
Grant of Authority Date Effective: 09/08/2017

Class of Station:

On September 8, 2017, SES Americom, Inc., was granted special temporary authority for 30 days, beginning September 27, 2017, to operate its fixed earth station located in Somis, CA to perform in-orbit testing (IOT) of SES-11 (S2964) satellite at 142.5° W.L. orbital location and provide tracking, telemetry and command (TT&C) operations in the 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands.

Points of Communication:

SES-T/C-20170901-00975 E E861068 Commonwealth Public Broadcasting Corporation

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 09/06/2017

Current Licensee: Commonwealth Public Broadcasting Corporation

FROM: Commonwealth Public Broadcasting Corporation

TO: Virginia Foundation for Public Media

No. of Station(s) listed: 1

SURRENDER

SES-LIC-20061207-02105 E060432 Saga Communications of Charlottesville, LLC

License surrendered by letter filed on August 24, 2017.

SES-RWL-20020913-01536 WU58 Falcon Cable Media, a California Limited Partnership

License surrendered by letter filed on September 1, 2017.

SES-RWL-20021106-01990 E5020 Time Warner Cable Midwest LLC

License surrendered by letter filed on September 1, 2017.

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