

6338.0000 - 6342.0000 MHz	1M40F2D	89.00 dBW	Digital Data/TTAC (Emergency)
6338.0000 - 6342.0000 MHz	1M40F3X	89.00 dBW	Digital Data/TTAC (Emergency)
6338.0000 - 6342.0000 MHz	1M40F2D	69.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M40F3X	69.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M40F2D	77.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M40F3X	77.00 dBW	Digital Data/TTAC (On-Station)
3945.0000 - 3955.0000 MHz	200KG7D		Digital Data/TTAC
3945.0000 - 3955.0000 MHz	750HG7D		Digital Data/TTAC
3600.0000 - 3700.0000 MHz	750HG7D	0.00 dBW	Digital Data/Feeder link via 4F1 & 4F3
3600.0000 - 3700.0000 MHz	2K50G1D		Packet-switched data
3600.0000 - 3700.0000 MHz	5K00G1D		Packet-switched data
3600.0000 - 3700.0000 MHz	10K0G1D		Circuit-switched data
3600.0000 - 3700.0000 MHz	5K00G1D		Circuit-switched data
3600.0000 - 3700.0000 MHz	17K5G1E		Circuit-switched voice
3600.0000 - 3700.0000 MHz	45K0G7D		Packet-switched and IDSN
1626.5000 - 1660.5000 MHz	100KN0N	41.00 dBW	Unmodulated Continuous Wave Pilot Carriers
1525.0000 - 1559.0000 MHz	100KN0N		Unmodulated Continuous Wave Pilot Carriers

SITE ID: 2

LOCATION: P.O. Box 698 58-350 Kamehameha Hwy, Haleiwa, HI
21 ° 40 ' 11.30 " N LAT.

158 ° 1 ' 59.60 " W LONG.

ANTENNA ID: 16m HAW2 16.4 meters Vertex 16M

6538.5500 - 6558.5500 MHz	20M0X2D	85.00 dBW	BPSK/Navigational Carrier
6532.5200 - 6536.5200 MHz	4M00X2D	85.00 dBW	BPSK/Navigational Carrier
6425.0000 - 6575.0000 MHz	750HG7D	63.70 dBW	Digital Data/Feeder link via 4F1 & 4F3
6425.0000 - 6575.0000 MHz	2K50G1D	59.60 dBW	Packet-switched data
6425.0000 - 6575.0000 MHz	2K50G1D	61.00 dBW	Packet-switched data

6425.0000 - 6575.0000 MHz	5K00G1D	58.60 dBW	Packet-switched data
6425.0000 - 6575.0000 MHz	10K0G1D	63.70 dBW	Circuit-switched data
6425.0000 - 6575.0000 MHz	5K00G1D	60.70 dBW	Circuit-switched data
6425.0000 - 6575.0000 MHz	17K5G1E	63.70 dBW	Circuit-switched voice
6425.0000 - 6575.0000 MHz	45K0G7D	65.50 dBW	Packet-switched and IDSN
6338.0000 - 6342.0000 MHz	1M40F2D	89.00 dBW	Digital Data/TTAC (Emergency)
6338.0000 - 6342.0000 MHz	1M40F3X	89.00 dBW	Digital Data/TTAC (Emergency)
6338.0000 - 6342.0000 MHz	1M40F2D	69.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M50F3X	69.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M40F2D	77.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M40F3X	77.00 dBW	Digital Data/TTAC (On-Station)
3945.0000 - 3955.0000 MHz	200KG7D		Digital Data/TTAC
3945.0000 - 3955.0000 MHz	750HG7D		Digital Data/TTAC
3600.0000 - 3700.0000 MHz	750HG7D	0.00 dBW	Digital Data/Feeder link via 4F1 & 4F3
3600.0000 - 3700.0000 MHz	2K50G1D		Packet-switched data
3600.0000 - 3700.0000 MHz	5K00G1D		Packet-switched data
3600.0000 - 3700.0000 MHz	10K0G1D		Circuit-switched data
3600.0000 - 3700.0000 MHz	5K00G1D		Circuit-switched data
3600.0000 - 3700.0000 MHz	17K5G1E		Circuit-switched voice
3600.0000 - 3700.0000 MHz	45K0G7D		Packet-switched and IDSN
1626.5000 - 1660.5000 MHz	100KN0N	41.00 dBW	Unmodulated Continuous Wave Pilot Carriers
1525.0000 - 1559.0000 MHz	100KN0N		Unmodulated Continuous Wave Pilot Carriers

Points of Communication:

- 1 - INMARSAT 4F1 - (143.5 E.L.)
- 1 - INMARSAT 4F3 - (97.65 W.L.)
- 2 - INMARSAT 4F1 - (143.5 E.L.)

2 - INMARSAT 4F3 - (97.65 W.L.)

SES-AMD-20100628-00834 E E100060 Kaufman Broadcast Services Corporation

Amendment

Grant of Authority

Date Effective: 08/10/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: Transportable

LOCATION: CONUS, Alaska, and Hawaii

ANTENNA ID:	T1	2.4 meters	Vertex Corporation	SM-LT
	14000.0000 - 14500.0000 MHz		36M0F8W 74.40 dBW	Analog Video with Associated Audio Subcarriers
	14000.0000 - 14500.0000 MHz		36M0G7W 74.40 dBW	Digital Video and Audio

Points of Communication:

Transportable - ALSAT - (ALSAT)

SES-LIC-20100108-00057 E E100010 UCSD Scripps Institution of Oceanography

Application for Authority

08/10/2010 - 08/10/2025

Grant of Authority

Date Effective: 08/10/2010

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

Nature of Service: Fixed Satellite Service, Other

SITE ID: UCSD Scripps HUB

LOCATION: 10100 John J Hopkins Dr, San Diego, La Jolla, CA

32 ° 53 ' 6.00 " N LAT.

117 ° 14 ' 24.00 " W LONG.

ANTENNA ID:	UCSD Hub	3.8 meters	Prodelin	1383
	11700.0000 - 12200.0000 MHz		66K6G7D 0.00 dBW	QPSK SCPC
	14000.0000 - 14500.0000 MHz		266KG7D 51.98 dBW	QPSK SCPC
ANTENNA ID:	ESV4006	1 meters	Seatel	4006
	11700.0000 - 12200.0000 MHz		266KG7D 0.00 dBW	QPSK SCPC
	14000.0000 - 14500.0000 MHz		66K6G7D 36.40 dBW	QPSK SCPC
ANTENNA ID:	ESV4996	1.2 meters	Seatel	4996
	11700.0000 - 12200.0000 MHz		266KG7D 0.00 dBW	QPSK SCPC
	14000.0000 - 14500.0000 MHz		66K6G7D 36.41 dBW	QPSK SCPC

ANTENNA ID:	ESV6006	1.5 meters	Seatel	6006
	11700.0000 - 12200.0000 MHz		266KG7D	0.00 dBW
				QPSK SCPC
	14000.0000 - 14500.0000 MHz		66K6G7D	36.43 dBW
				QPSK SCPC

Points of Communication:

UCSD Scripps HUB - SATMEX-5 - (116.8 W.L.)

SES-LIC-20100505-00523	E	E100060	Kaufman Broadcast Services Corporation	
Application for Authority				08/10/2010 - 08/10/2025
Grant of Authority				Date Effective: 08/10/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: Transportable
 LOCATION: CONUS, Alaska, and Hawaii

ANTENNA ID:	T1	2.4 meters	Vertex Corporation	SM-LT
	14000.0000 - 14500.0000 MHz		36M0G7W	74.40 dBW
				Digital Video and Audio
	14000.0000 - 14500.0000 MHz		36M0F8W	74.40 dBW
				Analog Video with Associated Audio Subcarriers

Points of Communication:

Transportable - ALSAT - (ALSAT)

SES-LIC-20100625-00789	E	E100081	UNIVERSAL SATELLITE COMMUNICATIONS INC.	EZ
Application for Authority				08/04/2010 - 08/04/2025
Grant of Authority				Date Effective: 08/04/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: (2.4M.), VARIOUS

ANTENNA ID:	2.4M.	2.4 meters	ANDREW CORP.	ESA-24SNG-LTE-25
	14000.0000 - 14500.0000 MHz		36M0G7W	74.84 dBW
				DIGITAL CARRIER, VARIOUS FEC, DATA RATES, MODULATION.
	14000.0000 - 14500.0000 MHz		36M0F3F	76.29 dBW
				STANDARD ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS.
	14000.0000 - 14500.0000 MHz		51K2G7W	46.37 dBW
				DIGITAL CARRIER, VARIOUS FEC, DATA RATES, MODULATION.

14000.0000 - 14500.0000 MHz	540KG7D	47.10 dBW	QPSK, DIGITAL
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Points of Communication:

HUB-INDYIN - ALSAT - (ALSAT)

Remotes 1_8 - ALSAT - (ALSAT)

REMOTES1_2 - ALSAT - (ALSAT)

Remotes2_4 - ALSAT - (ALSAT)

SES-MFS-20091105-01418 E E080059 Inmarsat Hawaii Inc.

Modification

12/18/2008 - 12/18/2023

Grant of Authority

Date Effective: 08/05/2010

Class of Station: Fixed Earth Stations

Nature of Service: Feeder Link for Mobile Satellite Service, Mobile Satellite Service, Radionavigation Satellite Service

SITE ID: 1

LOCATION: P.O. Box 698 58-350 Kamehameha Hwy, Haleiwa, HI

21 ° 40 ' 10.40 " N LAT.

158 ° 1 ' 59.40 " W LONG.

ANTENNA ID:	16m HAW1	16.4 meters	Vertex	16M	
6538.5500 - 6558.5500 MHz			20M0X2D	85.00 dBW	BPSK/Navigational Carrier
6532.5200 - 6536.5200 MHz			4M00X2D	85.00 dBW	BPSK/Navigational Carrier
6425.0000 - 6575.0000 MHz			750HG7D	63.70 dBW	Digital Data/Feeder link via 4F1 & 4F3
6425.0000 - 6575.0000 MHz			2K50G1D	59.60 dBW	Packet-switched data
6425.0000 - 6575.0000 MHz			2K50G1D	61.00 dBW	Packet-switched data
6425.0000 - 6575.0000 MHz			10K0G1D	63.70 dBW	Circuit-switched data
6425.0000 - 6575.0000 MHz			5K00G1D	60.70 dBW	Circuit-switched data
6425.0000 - 6575.0000 MHz			17K5G1E	63.70 dBW	Circuit-switched voice
6425.0000 - 6475.0000 MHz			5K00G1D	58.60 dBW	Packet-switched data
6338.0000 - 6342.0000 MHz			1M40F2D	89.00 dBW	Digital Data/TTAC (Emergency)
6338.0000 - 6342.0000 MHz			1M40F3X	89.00 dBW	Digital Data/TTAC (Emergency)
6338.0000 - 6342.0000 MHz			1M40F2D	69.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz			1M40F3X	69.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz			1M40F2D	77.00 dBW	Digital Data/TTAC (On-Station)

6338.0000 - 6342.0000 MHz	1M40F3X	77.00 dBW	Digital Data/TTAC (On-Station)
3945.0000 - 3955.0000 MHz	200KG7D		Digital Data/TTAC
3945.0000 - 3955.0000 MHz	750HG7D		Digital Data/TTAC
3600.0000 - 3700.0000 MHz	750HG7D	0.00 dBW	Digital Data/Feeder link via 4F1 & 4F3
3600.0000 - 3700.0000 MHz	2K50G1D		Packet-switched data
3600.0000 - 3700.0000 MHz	5K00G1D		Packet-switched data
3600.0000 - 3700.0000 MHz	10K0G1D		Circuit-switched data
3600.0000 - 3700.0000 MHz	5K00G1D		Circuit-switched data
3600.0000 - 3700.0000 MHz	17K5G1E		Circuit-switched voice
1626.5000 - 1660.5000 MHz	100KN0N	41.00 dBW	Unmodulated Continuous Wave Pilot Carriers
1525.0000 - 1559.0000 MHz	100KN0N		Unmodulated Continuous Wave Pilot Carriers
6425.0000 - 6575.0000 MHz	45K0G7D	65.50 dBW	Packet-switched and IDSN
3600.0000 - 3700.0000 MHz	45K0G7D		Packet-switched and IDSN

SITE ID: 2

LOCATION: P.O. Box 698 58-350 Kamehameha Hwy, Haleiwa, HI
21 ° 40 ' 11.30 " N LAT.

158 ° 1 ' 59.60 " W LONG.

ANTENNA ID: 16m HAW2 16.4 meters Vertex 16M

6538.5500 - 6558.5500 MHz	20M0X2D	85.00 dBW	BPSK/Navigational Carrier
6532.5200 - 6536.5200 MHz	4M00X2D	85.00 dBW	BPSK/Navigational Carrier
6425.0000 - 6575.0000 MHz	750HG7D	63.70 dBW	Digital Data/Feeder link via 4F1 & 4F3
6425.0000 - 6575.0000 MHz	2K50G1D	59.60 dBW	Packet-switched data
6425.0000 - 6575.0000 MHz	2K50G1D	61.00 dBW	Packet-switched data
6425.0000 - 6575.0000 MHz	5K00G1D	58.60 dBW	Packet-switched data
6425.0000 - 6575.0000 MHz	10K0G1D	63.70 dBW	Circuit-switched data
6425.0000 - 6575.0000 MHz	5K00G1D	60.70 dBW	Circuit-switched data
6425.0000 - 6575.0000 MHz	17K5G1E	63.70 dBW	Circuit-switched voice

6338.0000 - 6342.0000 MHz	1M40F2D	89.00 dBW	Digital Data/TTAC (Emergency)
6338.0000 - 6342.0000 MHz	1M40F3X	89.00 dBW	Digital Data/TTAC (Emergency)
6338.0000 - 6342.0000 MHz	1M40F2D	69.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M50F3X	69.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M40F2D	77.00 dBW	Digital Data/TTAC (On-Station)
6338.0000 - 6342.0000 MHz	1M40F3X	77.00 dBW	Digital Data/TTAC (On-Station)
3945.0000 - 3955.0000 MHz	200KG7D		Digital Data/TTAC
3945.0000 - 3955.0000 MHz	750HG7D		Digital Data/TTAC
3600.0000 - 3700.0000 MHz	750HG7D	0.00 dBW	Digital Data/Feeder link via 4F1 & 4F3
3600.0000 - 3700.0000 MHz	2K50G1D		Packet-switched data
3600.0000 - 3700.0000 MHz	5K00G1D		Packet-switched data
3600.0000 - 3700.0000 MHz	10K0G1D		Circuit-switched data
3600.0000 - 3700.0000 MHz	5K00G1D		Circuit-switched data
3600.0000 - 3700.0000 MHz	17K5G1E		Circuit-switched voice
1626.5000 - 1660.5000 MHz	100KN0N	41.00 dBW	Unmodulated Continuous Wave Pilot Carriers
1525.0000 - 1559.0000 MHz	100KN0N		Unmodulated Continuous Wave Pilot Carriers
3600.0000 - 3700.0000 MHz	45K0G7D		Packet-switched and IDSN
6425.0000 - 6575.0000 MHz	45K0G7D	65.50 dBW	Packet-switched and IDSN

SITE ID: 3

LOCATION: P.O. Box 698 58-350 Kamehameha Hwy, Haleiwa, HI
21 ° 40 ' 10.10 " N LAT.

158 ° 1 ' 59.20 " W LONG.

ANTENNA ID: 16m HAW3 1.8 meters Prodelin 1184

1166.4500 - 1186.4500 MHz 20M0X2D Navigational Carrier via I4F3

1573.4200 - 1577.4200 MHz 4M00X2D Navigational Carrier via I4F3

Points of Communication:

1 - INMARSAT 4F1 - (143.5 E.L.)

1 - INMARSAT 4F3 - (97.65 W.L.)

2 - INMARSAT 4F1 - (143.5 E.L.)

2 - INMARSAT 4F3 - (97.65 W.L.)

3 - INMARSAT 4F3 - (97.65 W.L.)

SES-MFS-20100119-00089 E E980136 Vizada, Inc.

Modification

10/09/2001 - 10/09/2011

Grant of Authority

Date Effective: 08/05/2010

Class of Station: Fixed Earth Stations

Nature of Service: Feeder Link in Fixed Satellite Service, Mobile Satellite Service, Radionavigation Satellite Service

SITE ID: SAPA17 (16.4m, 1.8m)

LOCATION: 7676 PINE GROVE ROAD, VENTURA, SANTA PAULA, CA

34 ° 24 ' 6.00 " N LAT.

119 ° 4 ' 21.80 " W LONG.

ANTENNA ID:	SAPA-16.4M	16.4 meters	COMSAT RSI	16.4M
6454.4000 - 6456.6000 MHz		2M20G1D	83.00 dBW	DIGITAL DATA & Feederlink to support FAA-WASS program
6440.8000 - 6443.0000 MHz		2M20G1D	83.00 dBW	DIGITAL DATA & Feederlink to support FAA-WASS program
3629.4000 - 3631.6000 MHz		2M20G1D		DIGITAL DATA & Feederlink to support FAA-WASS program
1574.4000 - 1576.6000 MHz		2M20G1D		DIGITAL DATA to support FAA-WASS program
1545.8000 - 1548.0000 MHz		2M20G1D		DIGITAL DATA to support FAA-WASS program
3947.0000 - 3953.0000 MHz		131KG2D		DIGITAL DATA
6352.5200 - 6536.5200 MHz		4M00X2D	85.00 dBW	DIGITAL DATA
6538.5500 - 6558.5500 MHz		20M0X2D	85.00 dBW	DIGITAL DATA
ANTENNA ID:	SAPA-1.8M	1.8 meters	PRODELIN	1183-912
1166.4500 - 1186.4500 MHz		20M0X2D		NAVIGTIONAL CARRIER VIA I4F3 SATELLITE
1573.4200 - 1577.4200 MHz		4M00X2D		NAVIGTIONAL CARRIER VIA I4F3 SATELLITE

Points of Communication:

SAPA17 (16.4m, 1.8m) - INMARSAT 4F3 - (97.65 W.L.)

SAPA17 (16.4m, 1.8m) - INMARSAT 4F3 - (97.65 W.L.)

SES-MOD-20100528-00661 E E020074 LXE Inc.
Application for Modification
Grant of Authority

03/07/2003 - 03/07/2018
Date Effective: 08/06/2010

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1

LOCATION: 25,000 INMARSAT D(D+ and M2M) half duplex METs throughout in U.S., Conus

ANTENNA ID: 1	0.11 meters	JRC (Size of MET: 121mm x 121mm x 41mm)	JUE-610 DT
1626.5000 - 1645.5000 MHz	2K50F1D	9.00 dBW	2 level FSK, 256Hz tone spacing, symbol rates
1525.0000 - 1544.0000 MHz	2K50F1D		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32 -ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
ANTENNA ID: 2	0.11 meters	SKYWAVE	DMR-200
1626.5000 - 1645.5000 MHz	2K50F1D	9.00 dBW	2 level FSK, 256Hz tone spacing, symbol rates
1525.0000 - 1544.0000 MHz	2K50F1D		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32 -ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
ANTENNA ID: 3	0.11 meters	SATAMATICS	SAT-101
1626.5000 - 1645.5000 MHz	2K50F1D	9.00 dBW	2 level FSK, 256Hz tone spacing, symbol rates
1525.0000 - 1544.0000 MHz	2K50F1D		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32 -ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
ANTENNA ID: 4	0.11 meters	SATAMATICS	SAT-201
1626.5000 - 1645.5000 MHz	2K50F1D	9.00 dBW	2 level FSK, 256Hz tone spacing, symbol rates
1525.0000 - 1544.0000 MHz	2K50F1D		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32 -ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
ANTENNA ID: 5	0.11 meters	SATMATICS	SAT 200/202

11700.0000 - 12200.0000 MHz	135KG7D	DIGITAL, DATA QPSK, FEC 3/4
11700.0000 - 12200.0000 MHz	269KG7D	DIGITAL, DATA QPSK, FEC 3/4

SITE ID: REMOTE 1
LOCATION: VSAT (1.2 M) (136 UNITS), CONUS

ANTENNA ID: REMT1	1.2 meters	PRODELIN	1125
14000.0000 - 14500.0000 MHz	7K50G7D	31.10 dBW	DIGITAL, DATA QPSK, FEC 3/4
14000.0000 - 14500.0000 MHz	30K0G7D	37.10 dBW	DIGITAL, DATA QPSK, FEC 3/4
14000.0000 - 14500.0000 MHz	135KG7D	42.10 dBW	DIGITAL, DATA QPSK, FEC 3/4
14000.0000 - 14500.0000 MHz	269KG7D	45.10 dBW	DIGITAL, DATA QPSK, FEC 3/4
11700.0000 - 12200.0000 MHz	7K50G7D		DIGITAL, DATA QPSK, FEC 3/4
11700.0000 - 12200.0000 MHz	30K0G7D		DIGITAL, DATA QPSK, FEC 3/4
11700.0000 - 12200.0000 MHz	135KG7D		DIGITAL, DATA QPSK, FEC 3/4
11700.0000 - 12200.0000 MHz	269KG7D		DIGITAL, DATA QPSK, FEC 3/4

SITE ID: REMOTE2
LOCATION: VSAT (1.2 M.) (200 UNITS), CONUS

ANTENNA ID: REMT2	1.2 meters	CHANNEL MASTER	TYPE 121
14000.0000 - 14500.0000 MHz	7K50G7D	31.10 dBW	DIGITAL DATA CARRIER
14000.0000 - 14500.0000 MHz	30K0G7D	37.10 dBW	DIGITAL DATA CARRIER
14000.0000 - 14500.0000 MHz	269KG7D	45.10 dBW	DIGITAL DATA CARRIER
14000.0000 - 14500.0000 MHz	135KG7D	42.10 dBW	DIGITAL DATA CARRIER
11700.0000 - 12200.0000 MHz	7K50G7D		DIGITAL DATA CARRIER
11700.0000 - 12200.0000 MHz	30K0G7D		DIGITAL DATA CARRIER
11700.0000 - 12200.0000 MHz	269KG7D		DIGITAL DATA CARRIER
11700.0000 - 12200.0000 MHz	135KG7D		DIGITAL DATA CARRIER

SITE ID: REMOTE 3
LOCATION: VSAT (1.2 M) (200 UNITS), CONUS

ANTENNA ID: REMT3	1.2 meters	VERTEX	1126
14000.0000 - 14500.0000 MHz	807KG7D	49.47 dBW	DIGITAL

5925.0000 - 6425.0000 MHz	36M0G7W	64.00 dBW	DIGITAL VIDEO, VOICE AND DATA
5925.0000 - 6425.0000 MHz	18M0G7W	66.00 dBW	DIGITAL VIDEO, VOICE AND DATA
3700.0000 - 4200.0000 MHz	9M00G7W		DIGITAL VIDEO, VOICE AND DATA
3700.0000 - 4200.0000 MHz	36M0G7W		DIGITAL VIDEO, VOICE AND DATA
3700.0000 - 4200.0000 MHz	18M0G7W		DIGITAL VIDEO, VOICE AND DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20010205-00286 P E2978 COMCAST OF ILLINOIS IV, INC.
 Renewal 04/15/2001 - 04/15/2011
 Grant of Authority Date Effective: 02/27/2001

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

Licensee has changed name, per letter dated March 17, 2010.

SITE ID: 1
 LOCATION: COOK, HOMEWOOD, IL
 41 ° 52 ' 26.00 " N LAT. 87 ° 48 ' 14.00 " W LONG.

ANTENNA ID: 1 4.5 meters ANDREW CORPORATION ESA5-4HP
 3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100727-00964 E E2425 TIME WARNER NY CABLE LLC
 Renewal 09/22/2010 - 09/22/2025
 Grant of Authority Date Effective: 08/10/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: JESSAMINE, NICHOLASVILLE, KY
 37 ° 53 ' 18.00 " N LAT. 84 ° 34 ' 48.00 " W LONG.

ANTENNA ID: 1 5 meters SCIENTIFIC ATLANTA 8008B
 3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100727-00965 E E2426 TIME WARNER NY CABLE LLC
Renewal 09/22/2010 - 09/22/2025
Grant of Authority Date Effective: 08/10/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: BOURBON, PARIS, KY
38 ° 13 ' 10.00 " N LAT. 84 ° 15 ' 53.00 " W LONG.

ANTENNA ID: 1 4.6 meters SCIENTIFIC ATLANTA 8005
3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100727-00966 E E2442 TIME WARNER NY CABLE LLC
Renewal 09/22/2010 - 09/22/2025
Grant of Authority Date Effective: 08/10/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: TAZEWELL, TAZEWELL, VA
37 ° 8 ' 4.00 " N LAT. 81 ° 33 ' 57.00 " W LONG.

ANTENNA ID: 1 4.5 meters ANDREW CORPORATION ESA5-4HP
3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100727-00967 E KE90 WINDJAMMER COMMUNICATIONS LLC
Renewal 09/14/2010 - 09/14/2025
Grant of Authority Date Effective: 08/10/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: ANDERSON, PALESTINE, TX
31 ° 46 ' 55.00 " N LAT. 95 ° 38 ' 26.00 " W LONG.

14000.0000 - 14500.0000 MHz	400KG1D	54.13 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
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11700.0000 - 12200.0000 MHz	400KG1D	0.00 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
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SITE ID: PRN IN
LOCATION: 6161 FALL CREEK ROAD, MARION, INDIANAPOLIS, IN
39 ° 51 ' 54.00 " N LAT. 86 ° 3 ' 43.00 " W LONG.

ANTENNA ID: PRN IN 2.4 meters Channel Master 243 TX/RX

14000.0000 - 14500.0000 MHz	400KG1D	54.64 dBW	QPSK
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11700.0000 - 12200.0000 MHz	400KG1D		QPSK
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SITE ID: PRN NC
LOCATION: 801 WOODRIDGE CENTER DR, MECKLENBERG, CHARLOTTE, NC
35 ° 10 ' 34.00 " N LAT. 80 ° 53 ' 34.00 " W LONG.

ANTENNA ID: PRN NC2 2.4 meters Prodelin 1244

14000.0000 - 14500.0000 MHz	400KG1D	54.64 dBW	QPSK
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11700.0000 - 12200.0000 MHz	400KG1D		QPSK
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ANTENNA ID: PRN NC1 4.6 meters Andrew Corporation ES46-124W

14000.0000 - 14500.0000 MHz	400KG1D	64.54 dBW	QPSK
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11700.0000 - 12200.0000 MHz	400KG1D		QPSK
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SITE ID: CC TAMPA
LOCATION: 4002 GRANDY BLVD., HILLSBOROUGH, TAMPA, FL
27 ° 53 ' 32.00 " N LAT. 82 ° 30 ' 41.00 " W LONG.

ANTENNA ID: 2.4 KU 2.4 meters Channel Master 243 TX/RX

14000.0000 - 14500.0000 MHz	400KG1D	54.64 dBW	QPSK
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11700.0000 - 12200.0000 MHz	400KG1D	0.00 dBW	QPSK
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ANTENNA ID: 3.8CCTAMP 3.8 meters Prodelin 1383

5925.0000 - 6425.0000 MHz	230KG7D	19.30 dBW	DIGITAL
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3700.0000 - 4200.0000 MHz	230KG7D		DIGITAL
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SITE ID: CC LIMA
LOCATION: 667 WEST MARKET STREET, LIMA, OH
40 ° 44 ' 23.20 " N LAT. 84 ° 6 ' 57.30 " W LONG.

ANTENNA ID: CC LIMA 1 3.8 meters Prodelin 1383

6331.0000 - 6360.0000 MHz	308KG7E	48.60 dBW	DIGITAL
3700.0000 - 4200.0000 MHz	308KG7E		DIGITAL
SITE ID: CC PORT ST LUCY			
LOCATION: 3371 S.E. JENNINGS ROAD, PORT ST LUCY, PORT ST LUCY, FL			
27 ° 16 ' 29.00 " N LAT.		80 ° 17 ' 11.00 " W LONG.	
ANTENNA ID: CC PSL	2.4 meters	Channel Master	243 TX/RX
14000.0000 - 14500.0000 MHz	400KG1D	54.64 dBW	QPSK
11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: PRN NV			
LOCATION: HC65 BOX 71885, NYE, PAHRUMP, NV			
36 ° 5 ' 0.00 " N LAT.		115 ° 57 ' 30.00 " W LONG.	
ANTENNA ID: PRNOO3	1.8 meters	Channel Master	6901
14000.0000 - 14500.0000 MHz	400KG1D	52.54 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
11700.0000 - 12200.0000 MHz	400KG1D		SCPC 3/4 RATE QPSK DIGITAL CARRIER
SITE ID: CC BURBANK			
LOCATION: 3400 RIVERSIDE DRIVE, SUITE 800, LOS ANGELES, BURBANK, CA			
34 ° 9 ' 8.00 " N LAT.		118 ° 20 ' 16.00 " W LONG.	
ANTENNA ID: CC BBANK	3.8 meters	Prodelin	1383
14000.0000 - 14500.0000 MHz	400KG1D	58.74 dBW	QPSK
11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: CC BOISE			
LOCATION: 827 E PARK BLVD, SUITE 201, ADA, BOISE, ID			
43 ° 36 ' 13.00 " N LAT.		116 ° 11 ' 25.00 " W LONG.	
ANTENNA ID: CC BOISE	2.4 meters	Channel Master	243 TX/RX
14000.0000 - 14500.0000 MHz	400KG1D	54.64 dBW	QPSK
11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: CC CLEVELAND			
LOCATION: 6200 OAK TREE BLVD., CUYAHOGA, INDEPENDENCE, OH			
41 ° 23 ' 36.00 " N LAT.		81 ° 39 ' 44.00 " W LONG.	
ANTENNA ID: CCLEVELAN	2.4 meters	Channel Master	243 TX/RX
14000.0000 - 14500.0000 MHz	400KG1D	54.64 dBW	QPSK

11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: RM0405			
LOCATION: 400 Ridgefield Ct., Buncombe, Asheville, NC			
35 ° 35 ' 32.00 " N LAT.		82 ° 34 ' 26.00 " W LONG.	
ANTENNA ID: RM0405	1.8 meters	Channel Master	62-18356-01
14000.0000 - 14500.0000 MHz	400KG1D	52.03 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
11700.0000 - 12200.0000 MHz	400KG1D	0.00 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
SITE ID: GW04			
LOCATION: 1103 Jamestown Rd, Burke, Morganton, NC			
35 ° 44 ' 40.00 " N LAT.		84 ° 41 ' 8.00 " W LONG.	
ANTENNA ID: GW04	2.4 meters	Channel Master	62-24356-01
14000.0000 - 14500.0000 MHz	400KG1D	54.64 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
11700.0000 - 12200.0000 MHz	400KG1D	0.00 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
SITE ID: RM0401			
LOCATION: 4351 North Atlantic, Oakland, Auburn Hills, MI			
42 ° 40 ' 50.00 " N LAT.		83 ° 12 ' 36.00 " W LONG.	
ANTENNA ID: RM0401	2.4 meters	Channel Master	62-24356-01
14000.0000 - 14500.0000 MHz	400KG1D	54.13 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
11700.0000 - 12200.0000 MHz	400KG1D	0.00 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
SITE ID: RM0402			
LOCATION: 9301 South M-221, Chippewa, Brimley, MI			
46 ° 24 ' 20.00 " N LAT.		84 ° 34 ' 38.00 " W LONG.	
ANTENNA ID: RM0402	1.8 meters	Channel Master	62-18356-01
14000.0000 - 14500.0000 MHz	400KG1D	52.03 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
11700.0000 - 12200.0000 MHz	400KG1D	0.00 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
SITE ID: DR1_8050			
LOCATION: 7042 S. REVERE PARKWAY SUITE 450, (1.8M. 8 UNITS), ARAPAHOE, CENTENNIAL, CO			
ANTENNA ID: DR18050	1.8 meters	PRODELIN	1184

14000.0000 - 14500.0000 MHz	10M0G1D	58.00 dBW	QPSK
11700.0000 - 12200.0000 MHz	10M0G1D		QPSK
SITE ID: MRV1_8050			
LOCATION: 7042 S. REVERE PARKWAY SUITE 450, (1.8M. 3 UNITS), ARAPAHOE, CENTENNIAL, CO			
ANTENNA ID: MRV18050	1.8 meters	AVL TECHNOLOGIES	1.8 SNG
14000.0000 - 14500.0000 MHz	10M0G1D	60.69 dBW	QPSK
11700.0000 - 12200.0000 MHz	10M0G1D		QPSK
SITE ID: TT2_4100			
LOCATION: 7042 S. REVERE PARKWAY SUITE 450, (2.4M. 15 UNITS), ARAPAHOE, CENTENNIAL, CO			
ANTENNA ID: TT24100	2.4 meters	SUMAN	SM-T2.4R
14000.0000 - 14500.0000 MHz	400KG1D	54.00 dBW	QPSK
11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: TT3_7150			
LOCATION: 7042 S. REVERE PARKWAY SUITE 450, (3.7M. 10 UNITS), ARAPAHOE, CENTENNIAL, CO			
ANTENNA ID: TT37150	3.7 meters	SUMAN	SM-T3.7R
14000.0000 - 14500.0000 MHz	400KG1D	57.50 dBW	QPSK
11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: TT1_8050			
LOCATION: 7042 S. REVERE PARKWAY SUITE 450, (1.8M. 12 UNITS), ARAPAHOE, CENTENNIAL, CO			
ANTENNA ID: TT18050	1.2 meters	PRODELIN	1184
14000.0000 - 14500.0000 MHz	400KG1D	52.00 dBW	QPSK
11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: DR3_7150			
LOCATION: 7042 S. REVERE PARKWAY SUITE 450, (3.7M. 5 UNITS), ARAPAHOE, CENTENNIAL, CO			
ANTENNA ID: DR37150	3.7 meters	SUMAN	SM-T3.7R
14000.0000 - 14500.0000 MHz	10M0G1D	70.56 dBW	QPSK
11700.0000 - 12200.0000 MHz	10M0G1D		QPSK
SITE ID: TT1_2020			
LOCATION: 7042 S. REVERE PARKWAY SUITE 450, (1.2M. 15 UNITS), ARAPAHOE, CENTENNIAL, CO			

ANTENNA ID:	TT12020	1.2 meters	CHANNEL MASTER	TYPE 121	
	14000.0000 - 14500.0000 MHz		6M00G1D	53.80 dBW	QPSK
	11700.0000 - 12200.0000 MHz		6M00G1D		QPSK
SITE ID:	CS0102				
LOCATION:	1819 Peachtree Rd Suite 700, Fulton, Atlanta, GA				
	33 ° 48 ' 16.00 " N LAT.			84 ° 23 ' 35.00 " W LONG.	
ANTENNA ID:	CS0102	2.4 meters	Channel Master	62-25356-01	
	14000.0000 - 14500.0000 MHz		400KG1D	54.64 dBW	QPSK
	11700.0000 - 12200.0000 MHz		400KG1D	0.00 dBW	QPSK
SITE ID:	RM0403				
LOCATION:	One Quality Way, Henderson, Fletcher, NC				
	35 ° 23 ' 5.00 " N LAT.			82 ° 30 ' 7.00 " W LONG.	
ANTENNA ID:	RM0403	1.8 meters	Channel Master	62-18356-01	
	14000.0000 - 14500.0000 MHz		400KG1D	52.03 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
	11700.0000 - 12200.0000 MHz		400KG1D	0.00 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
SITE ID:	RM0404				
LOCATION:	13456 Lovers Lane, Culpeper, Culpeper, VA				
	38 ° 28 ' 23.00 " N LAT.			77 ° 59 ' 36.00 " W LONG.	
ANTENNA ID:	RM0404	1.8 meters	Channel Master	62-18356-01	
	14000.0000 - 14500.0000 MHz		400KG1D	52.03 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
	11700.0000 - 12200.0000 MHz		400KG1D	0.00 dBW	SCPC 3/4 RATE QPSK DIGITAL CARRIER
SITE ID:	CCSSCM2_4100				
LOCATION:	76 INVERNESS DRIVE EAST SUITE B, (2.4M. 2 UNITS), ARAPAHOE, ENGLEWOOD, CO				
	39 ° 34 ' 47.00 " N LAT.			104 ° 51 ' 35.00 " W LONG.	
ANTENNA ID:	CCSCM2410	2.4 meters	CHANNEL MASTER	TYPE 243	
	14000.0000 - 14500.0000 MHz		400KG1D	54.50 dBW	QPSK
	11700.0000 - 12200.0000 MHz		400KG1D		QPSK
SITE ID:	CCSSCM1_8050				
LOCATION:	76 INVERNESS DRIVE EAST SUITE B, (1.8M. 2 UNITS), ARAPAHOE, ENGLEWOOD, CO				
	39 ° 34 ' 47.00 " N LAT.			104 ° 51 ' 35.00 " W LONG.	

ANTENNA ID:	CCSSM1805	1.8 meters	CHANNEL MASTER	183 TX/RX
	14000.0000 - 14500.0000 MHz		400KG1D 52.00 dBW	QPSK
	11700.0000 - 12200.0000 MHz		400KG1D	QPSK
SITE ID:	CCSSMN3_7150			
LOCATION:	76 INVERNESS DRIVE EAST SUITE B, (3.7M. 2 UNITS), ARAPAHOE, ENGLEWOOD, CO 39 ° 34 ' 47.00 " N LAT. 104 ° 51 ' 35.00 " W LONG.			
ANTENNA ID:	CCSMN3715	3.7 meters	SUMAN	SM-T3.7R
	14000.0000 - 14500.0000 MHz		400KG1D 57.50 dBW	QPSK
	11700.0000 - 12200.0000 MHz		400KG1D	QPSK
SITE ID:	CM2_4100			
LOCATION:	VSAT, (2.4M. 15 UNITS), CONUS			
ANTENNA ID:	CM2_4100	2.4 meters	CHANNEL MASTER	TYPE 243
	14000.0000 - 14500.0000 MHz		400KG1D 54.50 dBW	QPSK
	11700.0000 - 12200.0000 MHz		400KG1D	QPSK
SITE ID:	CCITSMN2_4100			
LOCATION:	20880 STONE OAK PARKWAY, BEXAR, SAN ANTONIO, TX 29 ° 38 ' 49.00 " N LAT. 98 ° 27 ' 13.00 " W LONG.			
ANTENNA ID:	CCITSMN24	2.4 meters	SUMAN	SM-T2.4R
	14000.0000 - 14500.0000 MHz		400KG1D 54.00 dBW	QPSK
	11700.0000 - 12200.0000 MHz		400KG1D	QPSK
SITE ID:	FINECITY2_4100			
LOCATION:	9660 GRANITE RIDGE DRIVE SUITE B, (2.4M. 3 UNITS), SAN DIEGO, SAN DIEGO, CA 32 ° 48 ' 25.00 " N LAT. 117 ° 7 ' 11.00 " W LONG.			
ANTENNA ID:	FINE2_4100	2.4 meters	CHANNEL MASTER	TYPE 243
	14000.0000 - 14500.0000 MHz		400KG1D 54.50 dBW	QPSK
	11700.0000 - 12200.0000 MHz		400KG1D	QPSK
SITE ID:	HORIZONPRD2_4016			
LOCATION:	1212 FARAON STREET, BUCHANAN, S. JOSEPH, MO 39 ° 46 ' 7.00 " N LAT. 94 ° 50 ' 40.00 " W LONG.			
ANTENNA ID:	HORPRD24	2.4 meters	PRODELIN	1251
	14000.0000 - 14500.0000 MHz		400KG1D 54.50 dBW	QPSK

11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: WAY 2.4MSUMAN			
LOCATION: 750 NORTH CR-41 2.4M., LARIMER, BELLVUE, CO			
40 ° 37 ' 2.00 " N LAT.		105 ° 19 ' 41.00 " W LONG.	
ANTENNA ID: WAY 2.4M	2.4 meters	SUMAN	SM-T2.4RK
14000.0000 - 14500.0000 MHz	400KG1D	54.50 dBW	QPSK
11700.0000 - 12200.0000 MHz	400KG1D		QPSK
SITE ID: UAMS3_7SUM			
LOCATION: 4301 W. MARKHAM # 890 3.7M., PULASKI, LITTLE ROCK, AR			
34 ° 44 ' 56.34 " N LAT.		92 ° 19 ' 11.97 " W LONG.	
ANTENNA ID: UAMS3_7S	3.7 meters	SUMAN	SM-T3.7R
14000.0000 - 14500.0000 MHz	6M00G1D	66.00 dBW	QPSK
11700.0000 - 12200.0000 MHz	6M00G1D		QPSK
SITE ID: MRV1_8100			
LOCATION: VSAT 1.8 M. SNG, CONUS, (10 UNITS)			
ANTENNA ID: MRVI_8100	1.8 meters	AVL	1.8 SNG
14000.0000 - 14500.0000 MHz	6M00G1D	63.70 dBW	8PSK, TPC
14000.0000 - 14500.0000 MHz	10M0G1D	63.70 dBW	QPSK
11700.0000 - 12200.0000 MHz	6M00G1D		8PSK, TPC
11700.0000 - 12200.0000 MHz	10M0G1D		QPSK

Points of Communication:

- CC BOISE - ALSAT - (ALSAT)
- CC BURBANK - ALSAT - (ALSAT)
- CC CLEVELAND - ALSAT - (ALSAT)
- CC LIMA - ALSAT - (ALSAT)
- CC PORT ST LUCY - ALSAT - (ALSAT)
- CC TAMPA - ALSAT - (ALSAT)
- CCITSMN2_4100 - ALSAT - (ALSAT)
- CCSSCM1_8050 - ALSAT - (ALSAT)
- CCSSCM2_4100 - ALSAT - (ALSAT)

CCSSSMN3_7150 - ALSAT - (ALSAT)
CM2_4100 - ALSAT - (ALSAT)
CS0102 - ALSAT - (ALSAT)
CS0104 - ALSAT - (ALSAT)
CS0113 - ALSAT - (ALSAT)
CSO111 - ALSAT - (ALSAT)
DR1_8050 - ALSAT - (ALSAT)
DR3_7150 - ALSAT - (ALSAT)
FINECITY2_4100 - ALSAT - (ALSAT)
GW04 - ALSAT - (ALSAT)
HORIZONPRD2_4016 - ALSAT - (ALSAT)
MRV1_8050 - ALSAT - (ALSAT)
MRV1_8100 - ALSAT - (ALSAT)
PRN IN - ALSAT - (ALSAT)
PRN NC - ALSAT - (ALSAT)
PRN NV - ALSAT - (ALSAT)
RM0401 - ALSAT - (ALSAT)
RM0402 - ALSAT - (ALSAT)
RM0403 - ALSAT - (ALSAT)
RM0404 - ALSAT - (ALSAT)
RM0405 - ALSAT - (ALSAT)
TT1_2020 - ALSAT - (ALSAT)
TT1_8050 - ALSAT - (ALSAT)
TT2_4100 - ALSAT - (ALSAT)
TT3_7150 - ALSAT - (ALSAT)
UAMS3_7SUM - ALSAT - (ALSAT)
WAY 2.4MSUMAN - ALSAT - (ALSAT)

SES-RWL-20100731-00972 E E872647 PREPA Networks Corp.
Renewal
Grant of Authority

09/28/2010 - 09/28/2025
Date Effective: 08/04/2010

Class of Station: Fixed Earth Stations

Nature of Service: International Fixed Satellite Service

SITE ID: 1

LOCATION: ROAD #3, KM. 76.6, HUMACAO 2, PR
18 ° 9 ' 5.00 " N LAT.

65 ° 47 ' 20.00 " W LONG.

ANTENNA ID: 1 15.2 meters VERTEX 15.2 KPC

5850.0000 - 6425.0000 MHz 36M0F9W 88.00 dBW

5850.0000 - 6425.0000 MHz 8M50F9W 78.80 dBW

3625.0000 - 4200.0000 MHz 36M0F9W

3625.0000 - 4200.0000 MHz 8M50F9W

Points of Communication:

1 - INTAOR - (AOR)

SES - RWL - 20100802 - 00973 E E000349 The Boeing Company

Renewal

08/23/2010 - 08/23/2025

Grant of Authority

Date Effective: 08/04/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 20403 68TH AVENUE S. (7.6M. HUB), KING, KENT, WA
47 ° 25 ' 13.70 " N LAT.

122 ° 15 ' 9.70 " W LONG.

ANTENNA ID: HUB 7.6 meters ANDREW ES76

14000.0000 - 14500.0000 MHz 1M23G7D 62.20 dBW VSAT 512KBPS, BPSK, 1/2 RATE, OUTROUTE

11700.0000 - 12200.0000 MHz 154KG7D VSAT 64KBPS, BPSK, 1/2 RATE, INROUTE

11700.0000 - 12200.0000 MHz 307KG7D VSAT 128KBPS, BPSK, 1/2 RATE, INROUTE

11700.0000 - 12200.0000 MHz 202KG7D VSAT 64KBPS, MSK, 1/2 RATE, INROUTE

11700.0000 - 12200.0000 MHz 404KG7D VSAT 128KBPS, MSK, 1/2 RATE, INROUTE

SITE ID: 1 REMOTE

LOCATION: 1.2M. VSAT, CONUS, (500 UNITS)

ANTENNA ID: REMOTE 1.2 meters PRODELIN

14000.0000 - 14500.0000 MHz	154KG7D	40.00 dBW	VSAT 64KBPS, BPSK, 1/2 RATE, INROUTE
14000.0000 - 14500.0000 MHz	307KG7D	40.00 dBW	VSAT 128KBPS, BPSK, 1/2 RATE, INROUTE
14000.0000 - 14500.0000 MHz	202KG7D	40.00 dBW	VSAT 64KBPS, MSK, 1/2 RATE, INROUTE
14000.0000 - 14500.0000 MHz	404KG7D	40.00 dBW	VSAT 128KBPS, MSK, 1/2 RATE, INROUTE
11700.0000 - 12200.0000 MHz	1M23G7D		VSAT 512KBPS, BPSK, 1/2 RATE, OUTROUTE

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100802-00974 E E900506 Regents of New Mexico State University
 Renewal 09/14/2010 - 09/14/2025
 Grant of Authority Date Effective: 08/04/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: STANLEY AND LOCUST STREETS, DONA ANA, LAS CRUCES, NM
 32 ° 16 ' 37.00 " N LAT. 106 ° 44 ' 36.00 " W LONG.

ANTENNA ID: 1 4.5 meters SCIENTIFIC ATLANTA 8345

14000.0000 - 14500.0000 MHz 36M0F9W 48.50 dBW

11700.0000 - 12200.0000 MHz 36M0F9W

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100802-00975 E KJ78 UTAH STATE UNIVERSITY OF AGRICULTURAL AND APPLIED SCIENCE
 Renewal 10/01/2010 - 10/01/2025
 Grant of Authority Date Effective: 08/10/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: CACHE, LOGAN, UT
 41 ° 44 ' 41.00 " N LAT. 111 ° 48 ' 17.00 " W LONG.

ANTENNA ID: 1 4.5 meters ROCKWELL SPECIFICED STANDARD ANTENNA

3700.0000 - 4200.0000 MHz 200F9

3700.0000 - 4200.0000 MHz 30F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100803-00979 E E900261 GCI Communication Corp.

Renewal

08/24/2010 - 08/24/2025

Grant of Authority

Date Effective: 08/04/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 1.4 MILES N. OF THE VILLAGE OF UNALASKA, BOROUGH, DUTCH HARBOR, AK

53 ° 53 ' 55.00 " N LAT.

166 ° 32 ' 13.00 " W LONG.

ANTENNA ID: 1 9 meters VERTEX 9.0 KPC

5925.0000 - 6425.0000 MHz 36M0G7W 79.50 dBW Transmit Data, Facsimile, & Telephony

5925.0000 - 6425.0000 MHz 36M0F3F 79.52 dBW Transmit Video

5925.0000 - 6425.0000 MHz 6K72G7W- 53.10 dBW Transmit Data, Facsimile, & Telephony

3700.0000 - 4200.0000 MHz 6K72G7W- Receive Data, Facsimile, & Telephony

3700.0000 - 4200.0000 MHz 36M0G7W Receive Data, Facsimile, & Telephony

3700.0000 - 4200.0000 MHz 36M0F3F Receive Video

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100803-00980 E E900478 GCI Communication Corp.

Renewal

08/24/2010 - 08/24/2025

Grant of Authority

Date Effective: 08/04/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 3 MILES NORTH-N.E OF DEADHORSE AIRPORT, PRUDHOE BAY, AK

70 ° 14 ' 6.00 " N LAT.

148 ° 22 ' 23.00 " W LONG.

ANTENNA ID: 1 9.1 meters ANDREW ESA91-46A

5925.0000 - 6425.0000 MHz	45K0G7W-	61.70 dBW	PSK MODULATION FOR TELEPHONY/FACSIMILE, AND DATA
5925.0000 - 6425.0000 MHz	36M0G7W	79.90 dBW	PSK MODULATION FOR TELEPHONY/FACSIMILE, AND DATA
5925.0000 - 6425.0000 MHz	60K0D7W-	63.00 dBW	QAM MODULATION FOR TELEPHONY/FACSIMILE, AND DATA
5925.0000 - 6425.0000 MHz	36M0D7W	79.90 dBW	QAM MODULATION FOR TELEPHONY/FACSIMILE, AND DATA
5925.0000 - 6425.0000 MHz	36M0F3F	79.00 dBW	FREQUENCY MODULATION FOR VIDEO AND AUDIO
3700.0000 - 4200.0000 MHz	45K0G7W-		PSK MODULATION FOR TELEPHONY/FACSIMILE, AND DATA
3700.0000 - 4200.0000 MHz	36M0G7W		PSK MODULATION FOR TELEPHONY/FACSIMILE, AND DATA
3700.0000 - 4200.0000 MHz	60K0D7W-		QAM MODULATION FOR TELEPHONY/FACSIMILE, AND DATA
3700.0000 - 4200.0000 MHz	36M0D7W		QAM MODULATION FOR TELEPHONY/FACSIMILE, AND DATA
3700.0000 - 4200.0000 MHz	36M0F3F		FREQUENCY MODULATION FOR VIDEO AND AUDIO

Points of Communication:

1 - ALSAT - (ALSAT)

1 - ANIK E1 - (118.7 W.L.)

SES-RWL-20100803-00981 E E900442 GCI Communication Corp.
Renewal 09/21/2010 - 09/21/2025
Grant of Authority Date Effective: 08/04/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: MILE 13, COOPER RIVER HIGHWAY, BOROUGH, CORDOVA, AK
60 ° 29 ' 47.00 " N LAT. 145 ° 27 ' 44.00 " W LONG.

ANTENNA ID: 1 7.3 meters ANDREW ESA73-46A

5925.0000 - 6425.0000 MHz	18M0F8F-	83.30 dBW	FM ANALOG VIDEO/AUDIO
5925.0000 - 6425.0000 MHz	38K4G7E	63.90 dBW	DIGITAL AUDIO
5925.0000 - 6425.0000 MHz	20M5D7W	79.40 dBW	16 QAM
5925.0000 - 6425.0000 MHz	35M9G7W	79.40 dBW	DIGITAL
5925.0000 - 6425.0000 MHz	618KD7W-	74.30 dBW	16 QAM
5925.0000 - 6425.0000 MHz	54K6G7W-	61.10 dBW	DIGITAL
5925.0000 - 6425.0000 MHz	36M0F8F	79.40 dBW	ANALOG TV
5925.0000 - 6425.0000 MHz	18M0F8F-	79.40 dBW	ANALOG TV
5925.0000 - 6425.0000 MHz	9M00G1F	79.40 dBW	DIGITAL TV
5925.0000 - 6425.0000 MHz	200KF3E	63.90 dBW	SCPC AUDIO FM
5925.0000 - 6425.0000 MHz	38K4G7E	59.50 dBW	DIGITAL AUDIO
5925.0000 - 6425.0000 MHz	24M0G7F	79.40 dBW	MCPC DIGITAL TV
3700.0000 - 4200.0000 MHz	18M0F8F-		FM ANALOG VIDEO/AUDIO
3700.0000 - 4200.0000 MHz	36M0F8F		FM ANALOG VIDEO/AUDIO
3700.0000 - 4200.0000 MHz	9M00G1F		SINGLE CHAN/CARRIER DIGITAL VIDEO/AUDIO
3700.0000 - 4200.0000 MHz	200KF3E		FM ANALOG AUDIO
3700.0000 - 4200.0000 MHz	38K4G7E		DIGITAL AUDIO
3700.0000 - 4200.0000 MHz	35M9G7W		QPSK, 8PSK DIGITAL DATA
3700.0000 - 4200.0000 MHz	618KD7W-		16QAM DIGITAL DATA
3700.0000 - 4200.0000 MHz	20M3D7W		16QAM DIGITAL DATA
3700.0000 - 4200.0000 MHz	24M0G7F		MULTIPLE CHAN/CARRIER DIGITAL VIDEO/AUDIO
3700.0000 - 4200.0000 MHz	54K6G7W-		QPSK, 8PSK DIGITAL DATA
3700.0000 - 4200.0000 MHz			ANALOG, DIGITAL TV, SCPC AUDIO FM, DIGITAL, 16 QAM
ANTENNA ID: 2	7.6 meters	Andrew	ES76K-1
14000.0000 - 14500.0000 MHz	38K4G7W	55.12 dBW	DIGITAL AUDIO

14000.0000 - 14500.0000 MHz	36M0G7F	84.84 dBW	MCPC DIGITAL VIDEO
14000.0000 - 14500.0000 MHz	9M00G1F	78.82 dBW	SCPC DIGITAL VIDEO
14000.0000 - 14500.0000 MHz	20M3D7W	82.35 dBW	16 QAM DIGITAL DATA
14000.0000 - 14500.0000 MHz	2M00G1F-	72.29 dBW	SCPC DIGITAL VIDEO
14000.0000 - 14500.0000 MHz	6M00G7F-	77.06 dBW	MCPC DIGITAL VIDEO
14000.0000 - 14500.0000 MHz	618KD7W-	67.19 dBW	16 QAM DIGITAL DATA
14000.0000 - 14500.0000 MHz	36M0F8F	86.30 dBW	FM ANALOG VIDEO/AUDIO
14000.0000 - 14500.0000 MHz	18M0F8F-	86.30 dBW	FM ANALOG VIDEO/AUDIO
14000.0000 - 14500.0000 MHz	35M9G7W	84.83 dBW	QPSK, 8PSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz	54K6G7W-	56.65 dBW	QPSK, 8PSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz			DIGITAL AUDIO, 16 QAM DIGITAL DATA, FM ANALOG VIDEO/AUDIO, QPSK, 8PSK, DIGITAL DATA, SCPC DIGITAL VIDEO, MCPC DIGITAL VIDEO

Points of Communication:

- 1 - ALSAT - (ALSAT)
- 1 - INTELSAT POR - (174.0 E.L.)
- 1 - INTELSAT POR - (176.0 E.L.)
- 1 - INTELSAT POR - (180.0 E.L.)
- 1 - NSS-5 - (183 E.L.)
- 1 - PANAMSAT 5 - (194 W.L.)
- 1 - PAS-4 - (191.0 W.L.)

SES-RWL-20100804-00989 E E000585 ABS-CBN International, Inc.

Renewal

10/23/2010 - 10/23/2025

Grant of Authority

Date Effective: 08/06/2010

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: 2901 COLUMBIA AVE., CONTRA COSTA, RICHMOND, CA

37 ° 54 ' 16.70 " N LAT.

122 ° 19 ' 0.90 " W LONG.

ANTENNA ID: 1

13 meters

HARRIS/VERTEX

13 KPC

5925.0000 - 6425.0000 MHz	18M0F8F-	83.30 dBW	FM ANALOG VIDEO/AUDIO
5925.0000 - 6425.0000 MHz	36M0F8F	83.30 dBW	FM ANALOG VIDEO/AUDIO
5925.0000 - 6425.0000 MHz	9M00G1F	83.30 dBW	SINGLE CHAN/CARRIER DIGITAL VIDEO/AUDIO
5925.0000 - 6425.0000 MHz	24M0G7F	83.30 dBW	MULTIPLE CHAN/CARRIER DIGITAL VIDEO/AUDIO
5925.0000 - 6425.0000 MHz	200KF3E	67.79 dBW	FM ANALOG AUDIO
5925.0000 - 6425.0000 MHz	38K4G7E	63.90 dBW	DIGITAL AUDIO
5925.0000 - 6425.0000 MHz	54K6G7W-	65.50 dBW	QPSK, 8PSK DIGITAL
5925.0000 - 6425.0000 MHz	35M9G7W	83.30 dBW	QPSK, 8PSK DIGITAL
5925.0000 - 6425.0000 MHz	618KD7W	76.00 dBW	16QAM DIGITAL
5925.0000 - 6425.0000 MHz	20M3D7W	83.30 dBW	16QAM DIGITAL
3700.0000 - 4200.0000 MHz	18M0F8F		FM ANALOG VIDEO/AUDIO
3700.0000 - 4200.0000 MHz	36M0F8F		FM ANALOG VIDEO/AUDIO
3700.0000 - 4200.0000 MHz	9M00G1F		SINGLE CHAN/CARRIER DIGITAL VIDEO/AUDIO
3700.0000 - 4200.0000 MHz	24M0G7F		MULTIPLE CHAN/CARRIER DIGITAL VIDEO/AUDIO
3700.0000 - 4200.0000 MHz	200KF3E		FM ANALOG AUDIO
3700.0000 - 4200.0000 MHz	38K4G7E		DIGITAL AUDIO
3700.0000 - 4200.0000 MHz	54K6G7W-		QPSK, 8PSK DIGITAL
3700.0000 - 4200.0000 MHz	35M9G7W		QPSK, 8PSK DIGITAL
3700.0000 - 4200.0000 MHz	618KD7W-		16QAM DIGITAL
3700.0000 - 4200.0000 MHz	20M3D7W		16QAM DIGITAL

Points of Communication:

- 1 - ALSAT - (ALSAT)
- 1 - ANIK E1 - (118.7 W.L.)
- 1 - ANIK E2 - (111.1 W.L.)
- 1 - INTELSAT POR - (174.0 E.L.)

1 - INTELSAT POR - (176.0 E.L.)

1 - INTELSAT POR - (180.0 E.L.)

1 - New Skies 513 - (183 E.L.)

1 - SATMEX-5 - (116.8 W.L.)

1 - SOLIDARIDAD F-1 - (109.2 W.L.)

1 - SOLIDARIDAD F-2 - (113.0 W.L.)

SES-RWL-20100805-00990 E E000353 Videocom Inc

Renewal

09/07/2010 - 09/07/2025

Grant of Authority

Date Effective: 08/06/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (TES 6), VARIOUS

ANTENNA ID: TES 6 2.4 meters AVL 2400K SNG

14000.0000 - 14500.0000 MHz 36M0G7F 73.90 dBW COMPRESSED VIDEO

14000.0000 - 14500.0000 MHz 36M0F8F 75.00 dBW ANALOG VIDEO

14000.0000 - 14500.0000 MHz 18M0G7F 70.20 dBW NULL

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100805-00991 E E000360 The Comcast Network, LLC

Renewal

09/06/2010 - 09/06/2025

Grant of Authority

Date Effective: 08/06/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: VARIOUS

ANTENNA ID: 1 1.2 meters AVL 1.2M DSNG

14000.0000 - 14500.0000 MHz 24M0G7F 61.98 dBW PSK DIGITAL VIDEO W/DIGITAL AUDIO/DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100805-00993 E E2353 COMCAST OF MT. CLEMENS
Renewal 09/02/2010 - 09/02/2025
Grant of Authority Date Effective: 08/06/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: HUNTINGTON, HUNTINGTON, IN
40 ° 54 ' 10.00 " N LAT. 85 ° 31 ' 11.00 " W LONG.

ANTENNA ID: 1 4.6 meters SCIENTIFIC ATLANTA 8005
3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100805-00994 E WE61 COMCAST OF CALIFORNIA/CONNECTICUT/MICHIGAN
Renewal 09/09/2010 - 09/09/2025
Grant of Authority Date Effective: 08/06/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: LENAWEE, ADRIAN, MI
41 ° 56 ' 22.00 " N LAT. 83 ° 59 ' 0.00 " W LONG.

ANTENNA ID: 1 5 meters SCIENTIFIC ATLANTA 8008B
3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100805-00995 E E2505 SES Americom, Inc.
Renewal 10/29/2010 - 10/29/2025
Grant of Authority Date Effective: 08/10/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 6461 Stephenson Way, FAIRFAX, ALEXANDRIA, VA
38 ° 47 ' 38.00 " N LAT. 77 ° 9 ' 57.00 " W LONG.

ANTENNA ID: 1 10 meters SCIENTIFIC ATLANTA 8002
5925.0000 - 6425.0000 MHz 36M0F8W 80.90 dBW

5925.0000 - 6425.0000 MHz	1M54G7D	76.50 dBW
5925.0000 - 6425.0000 MHz	200KF8E	76.50 dBW
3700.0000 - 4200.0000 MHz	36M0F8W	
3700.0000 - 4200.0000 MHz	1M54G7D	
3700.0000 - 4200.0000 MHz	200KF8E	

ANTENNA ID: 2 9.2 meters SATCOM/RSI 920CS

5925.0000 - 6425.0000 MHz	36M0F8W	80.90 dBW
5925.0000 - 6425.0000 MHz	1M54G7D	76.50 dBW
5925.0000 - 6425.0000 MHz	200KF8E	76.50 dBW
3700.0000 - 4200.0000 MHz	36M0F8W	
3700.0000 - 4200.0000 MHz	1M54G7D	
3700.0000 - 4200.0000 MHz	200KF8E	

ANTENNA ID: 3 9 meters VERTEX 9 KPC

5925.0000 - 6425.0000 MHz	36M0F8W	80.90 dBW
5925.0000 - 6425.0000 MHz	1M54G7D	76.50 dBW
5925.0000 - 6425.0000 MHz	200KF8E	76.50 dBW
3700.0000 - 4200.0000 MHz	36M0F8W	
3700.0000 - 4200.0000 MHz	1M54G7D	
3700.0000 - 4200.0000 MHz	200KF8E	

Points of Communication:

1 - ALSAT - (ALSAT)

SES - RWL - 20100805 - 00996	E E2391	COMCAST OF FLORIDA/GEORGIA, LLC	09/15/2010 - 09/15/2025
Renewal			Date Effective:
Grant of Authority			08/06/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: MARTIN, INDIAN TOWN, FL
27 ° 1 ' 39.00 " N LAT. 80 ° 30 ' 15.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100805-00997 E WE64 COMCAST OF PADUCAH INC.
Renewal 09/20/2010 - 09/20/2025
Grant of Authority Date Effective: 08/06/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: MC CRACKEN, PADUCAH, KY
37 ° 3 ' 52.00 " N LAT. 86 ° 37 ' 40.00 " W LONG.

ANTENNA ID: 1 6.1 meters RADIO MECHANICAL STR UCTURES, INC.TVRO 6

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100805-00998 E WE71 COMCAST OF PANAMA CITY, INC.
Renewal 09/23/2010 - 09/23/2025
Grant of Authority Date Effective: 08/06/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: BAY, PANAMA CITY, FL
30 ° 13 ' 50.00 " N LAT. 85 ° 38 ' 47.00 " W LONG.

ANTENNA ID: 1 5 meters SCIENTIFIC ATLANTA 8008A

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100805-00999 E WE72 COMCAST OF TALLAHASSEE, INC.
Renewal 09/23/2010 - 09/23/2025
Grant of Authority Date Effective: 08/06/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: LEON, TALLAHASSEE, FL
30 ° 30 ' 34.00 " N LAT. 84 ° 16 ' 5.00 " W LONG.

ANTENNA ID: 1 5 meters SCIENTIFIC-ATLANTA 8008-A
3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100806-01014 E E000316 BFI Licenses, LLC
Renewal 08/10/2010 - 08/10/2025
Grant of Authority Date Effective: 08/10/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: VARIOUS

ANTENNA ID: 1 2.4 meters RSI 240MVO

14000.0000 - 14500.0000 MHz	51K2G7W	45.37 dBW	BPSK, QPSK, 8PSK, QAM, FEC RATES 1/2 - 7/8, VARIOUS DATA RATES FROM 64KBPS, VARIOUS INFORMATION.
14000.0000 - 14500.0000 MHz	36M0G7W	73.84 dBW	BPSK, QPSK, 8PSK, QAM, FEC RATES 1/2 - 7/8, VARIOUS DATA RATES FROM 45MBPS, VARIOUS INFORMATION.
14000.0000 - 14500.0000 MHz	36M0F3F	75.29 dBW	STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS.
11700.0000 - 12200.0000 MHz	51K2G7W		BPSK, QPSK, 8PSK, QAM, FEC RATES 1/2 - 7/8, VARIOUS DATA RATES FROM 64KBPS, VARIOUS INFORMATION.
11700.0000 - 12200.0000 MHz	36M0G7W		BPSK, QPSK, 8PSK, QAM, FEC RATES 1/2 - 7/8, VARIOUS DATA RATES FROM 45MBPS, VARIOUS INFORMATION.

11700.0000 - 12200.0000 MHz

36M0F3F

STANDARD VIDEO WITH
ASSOCIATED AUDIO
SUBCARRIERS.

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100806-01015 E E000317 BFI Licenses, LLC

Renewal

08/23/2010 - 08/23/2025

Grant of Authority

Date Effective: 08/10/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 1329 MEADOW ROAD, LEE, LEHIGH ACRES, FL

ANTENNA ID: 1 2.4 meters RSI 240MVO

5925.0000 - 6425.0000 MHz 36M0W9W 66.80 dBW ANALOG AND COMPRESSED
DIGITAL VIDEO

3700.0000 - 4200.0000 MHz

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100809-01017 E E900691 CHEVRON USA INC

Renewal

09/25/2010 - 09/25/2025

Grant of Authority

Date Effective: 08/09/2010

Class of Station: VSAT Network

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: VSAT 1.0 M. (5000 UNITS), CONUS, AK, HI

ANTENNA ID: 1 1 meters HUGHES NETWORK SYSTEMS INC. SCE3000172

14000.0000 - 14500.0000 MHz 307KG7D 44.00 dBW

14000.0000 - 14500.0000 MHz 240KG7D 44.00 dBW 5 MSP, QPSK, OUTROUTE CARRIER

14000.0000 - 14500.0000 MHz 200KG7D 44.00 dBW 128 KSPS, OQPSK, INROUTE
CARRIER

14000.0000 - 14500.0000 MHz 1M60G7D 44.00 dBW 1024 KSPS, OQPSK, INROUTE

14000.0000 - 14500.0000 MHz 800KG7D 44.00 dBW 512 KSPS, OQPSK, INROUTE

14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	256 KSPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	1M23G7D		
11700.0000 - 12200.0000 MHz	22M0F8W		
11700.0000 - 12200.0000 MHz	6M20G7D		128 KBPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	1M60G7D		1024 KSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	12M0G7D		10 MSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	6M00G7D		5 MSPS, OQPSK, OUTROUTE

Points of Communication:

1 - ALSAT - (ALSAT)

1 - GALAXY III-C - (95 W.L.)

SES-RWL-20100809-01018 E E900690 CHEVRON USA INC

Renewal

09/25/2010 - 09/25/2025

Grant of Authority

Date Effective: 08/09/2010

Class of Station: VSAT Network

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: VSAT 1.8M., (68 UNITS), CONUS, AK

ANTENNA ID: 1 1.8 meters HUGHES NETWORK SYSTEMS INC. SCE300063

14000.0000 - 14500.0000 MHz	307KG7D	49.70 dBW	
14000.0000 - 14500.0000 MHz	240KG7D	49.70 dBW	128 KBPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	1M60G7D	49.70 dBW	1024 KSPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	512 KSPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	256 KSPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	128 KBPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	1M23G7D		
11700.0000 - 12200.0000 MHz	22M0F8W		
11700.0000 - 12200.0000 MHz	6M20G7D		5 MSP, QPSK, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		5 MSP, QPSK, OUTROUTE CARRIER

11700.0000 - 12200.0000 MHz	1M60G7D	1024 KSPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	12M0G7D	10 MSPS, OQPSK, OUTROUTE

Points of Communication:

1 - ALSAT - (ALSAT)

1 - GALAXY III-C - (95 W.L.)

SES-RWL-20100809-01019	E E900689	CHEVRON USA INC	
Renewal			09/25/2010 - 09/25/2025
Grant of Authority			Date Effective: 08/10/2010

Class of Station: VSAT Network

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: VSAT 2.4M. (12 UNITS), CONUS, AK, HI

ANTENNA ID: 1	2.4 meters	HUGHES NETWORK SYSTEMS INC.	SCE3000130
14000.0000 - 14500.0000 MHz	307KG7D	51.80 dBW	
14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	128 KBPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	512 KBPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	1M60G7D	52.20 dBW	1024 KBPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	256 KSPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	1M60G7D		1024 KSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	12M0G7D		10 MSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	6M00G7D		5 MSPS, OQPSK, OUTROUTE

Points of Communication:

1 - ALSAT - (ALSAT)

1 - GALAXY III-C - (95 W.L.)

SES-RWL-20100809-01020	E E900688	CHEVRON USA INC	
Renewal			09/25/2010 - 09/25/2025
Grant of Authority			Date Effective: 08/10/2010

Class of Station: VSAT Network

Nature of Service: Domestic Fixed Satellite Service

SITE ID: HUB-1
 LOCATION: 6001 BOLLINGER CANYON RD. (6.1M.HUB-1 PRIMARY), CONTRA COSTA, SAN RAMON, CA
 37 ° 5 ' 31.00 " N LAT. 121 ° 7 ' 26.00 " W LONG.

ANTENNA ID:	HUB-1	6.1 meters	VERTEX	6.1KPK	
	14000.0000 - 14500.0000 MHz		1M60G7D	61.80 dBW	1024 KSPS, OQPSK, OUTROUTE
	14000.0000 - 14500.0000 MHz		22M0F8W	73.20 dBW	FM AUDIO/VIDEO DISTRIBUTION, OUTROUTE
	14000.0000 - 14500.0000 MHz		6M00G7D	67.50 dBW	5 MSPS, QPSK, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz		12M0G7D	70.50 dBW	10 MSPS, OQPSK, OUTROUTE
	11700.0000 - 12200.0000 MHz		1M60G7D		1024 KSPS, OQPSK, OUTROUTE
	11700.0000 - 12200.0000 MHz		200KG7D		128 KBPS, OQPSK, INROUTE
	11700.0000 - 12200.0000 MHz		400KG7D		256 KSPS, OQPSK, INROUTE
	11700.0000 - 12200.0000 MHz		800KG7D		512 KSPS, OQPSK, INROUTE

SITE ID: 2(VSAT2)
 LOCATION: (.74 METER VSAT) 7000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	VSAT2	0.74 meters	HUGHES NETWORK SYSTEMS	AN4-074	
	14000.0000 - 14500.0000 MHz		200KG7D	42.00 dBW	128 KBPS, OQPSK, INROUTE
	14000.0000 - 14500.0000 MHz		1M60G7D	42.00 dBW	1024 KSPS, OQPSK, OUTROUTE
	14000.0000 - 14500.0000 MHz		400KG7D	42.00 dBW	256 KSPS, OQPSK, INROUTE
	14000.0000 - 14500.0000 MHz		800KG7D	42.00 dBW	512 KSPS, OQPSK, INROUTE
	11700.0000 - 12200.0000 MHz		6M00G7D		5 MSPS, QPSK, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz		12M0G7D		10 MSPS, OQPSK, OUTROUTE
	11700.0000 - 12200.0000 MHz		1M60G7D		1024 KSPS, OQPSK, OUTROUTE

SITE ID: 3(VSAT3)
 LOCATION: (.98 METER VSAT) 7000 UNITS, CONUS, AK, HI, PR VI

ANTENNA ID:	VSAT3	0.98 meters	HUGHES NETWORK SYSTEMS	AN4-098	
	14000.0000 - 14500.0000 MHz		200KG7D	44.30 dBW	128 KBPS, OQPSK, INROUTE
	14000.0000 - 14500.0000 MHz		400KG7D	44.30 dBW	256 KSPS, OQPSK, INROUTE

14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW	1024 KSPS, OQPSK, OUTROUTE
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	512 KSPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	1M60G7D		1024 KSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	12M0G7D		10 MSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	6M00G7D		5 MSPS, OQPSK, OUTROUTE

SITE ID: 4(VSAT4)
LOCATION: (.74 METER VSAT) 7000 UNITS-RAVEN, CONUS, AK, HI, PR VI

ANTENNA ID: VSAT4	0.74 meters	RAVEN-.74 CM ELLIPTICAL	HNS-1035610
14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	1024 KSPS, OQPSK, OUTROUTE
14000.0000 - 14500.0000 MHz	200KG7D	41.70 dBW	128 KBPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	256 KSPS, OQPSK, INROUTE
14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	512 KSPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	1M60G7D		1024 KSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	12M0G7D		10 MSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	6M00G7D		5 MSPS, OQPSK, OUTROUTE

SITE ID: HUB-B
LOCATION: 4800 FOURNACE PLACE (5.6M.HUB-B SECONDARY), HARRIS, BELLAIRE, TX
29 ° 43 ' 0.80 " N LAT. 95 ° 27 ' 46.80 " W LONG.

ANTENNA ID: HUB-B	56 meters	ANDREW	ES56-1
14000.0000 - 14500.0000 MHz	1M60G7D	61.80 dBW	1024 KSPS, OQPSK, OUTROUTE
14000.0000 - 14500.0000 MHz	22M0F8W	73.20 dBW	FM AUDIO/VIDEO DISTRIBUTION, OUTROUTE
14000.0000 - 14500.0000 MHz	6M00G7D	67.50 dBW	5 MSPS, OQPSK, OUTROUTE
14000.0000 - 14500.0000 MHz	12M0G7D	70.50 dBW	10 MSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	1M60G7D		1024 KSPS, OQPSK, OUTROUTE
11700.0000 - 12200.0000 MHz	200KG7D		128 KSPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	400KG7D		256 KSPS, OQPSK, INROUTE
11700.0000 - 12200.0000 MHz	800KG7D		512 KSPS, OQPSK, INROUTE

Points of Communication:

2(VSAT2) - GALAXY III-C - (95 W.L.)

3(VSAT3) - GALAXY III-C - (95 W.L.)

4(VSAT4) - GALAXY III-C - (95 W.L.)

HUB-1 - ALSAT - (ALSAT)

HUB-B - ALSAT - (ALSAT)

SES-STA-20100803-00976 E KA249 Vizada, Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 08/10/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 30 days beginning August 12, 2010 and ending September 10, 2010.

Points of Communication:

SES-STA-20100803-00984 E KA275 Intelsat North America LLC

Special Temporary Authority

Grant of Authority

Date Effective: 08/10/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 30 days beginning August 7, 2010 and ending September 5, 2010.

Points of Communication:

Dismissal

SES-LIC-20100203-00146 E100026 SCHLUMBERGER TECHNOLOGY CORPORATION

Application dismissed without prejudice to refiling for failure to request waiver of the Commission's rules. See dismissal letter, DA 10-1471 released August 10, 2010.

INFORMATIVE

SES-MOD-20010730-01416 E3443 COMCAST OF COLORADO V, LLC

Licensee has changed name, per letter dated March 17, 2010.

SES-RWL-20000807-01464 E2543 COMCAST OF CALIFORNIA/CONNECTICUT/MICHIGAN

Licensee has changed name only per letter dated March 17, 2010.

SES-RWL-20001006-01936 E2656 COMCAST OF GREATER FLORIDA/GEORGE, INC.

Licensee has changed name, per letter dated March 17, 2010.

SES-RWL-20010205-00282 E3007 COMCAST OF ILLINOIS/INDIANA/MICHIGAN

Licensee has changed name, per letter dated March 17, 2010.

SES-RWL-20010409-00727 E3235 COMCAST OF NORTHERN CALIFORNIA II, INC.

Licensee has changed name, per letter dated March 17, 2010.

SES-RWL-20010507-00892 E3260 COMCAST OF CALIFORNIA/COLORADO/WASHINGTON I, INC.

Licensee has changed name, per letter dated March 17, 2010.

SES-RWL-20010611-01071 E3328 COMCAST OF MASSACHUSETTS I, INC.

Licensee has changed name, per letter dated March 17, 2010.

INFORMATIVE

SES-RWL-20010709-01282 E3376 COMCAST OF FRESNO, INC.

Licensee has changed name, per letter dated March 17, 2010.

SES-RWL-20010709-01294 E3361 COMCAST OF CALIFORNIA VII, INC.

Licensee has changed name, per letter dated March 17, 2010.

SES-RWL-20100702-00860 E2120 COMCAST OF CALIFORNIA/COLORADO/WASHINGTON I, INC.

Licensee has changed name only per letter dated March 17, 2010.

SURRENDER

SES-LIC-20080304-00226 E080055 SEGOVIA, INC.

Licensee has surrendered license per letter dated July 23, 2010.

For more information concerning this Notice, contact the Satellite Division at 418-0719; TTY 202-418-2555.