



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
445 12th STREET S.W.
WASHINGTON D.C. 20554

News media information 202-418-0500
Internet: <http://www.fcc.gov> (or <ftp.fcc.gov>)
TTY (202) 418-2555

Report No. SES-01258

Wednesday July 7, 2010

SATELLITE COMMUNICATIONS SERVICES INFORMATION

RE: ACTIONS TAKEN

The Commission, by its International Bureau, took the following actions pursuant to delegated authority. The effective dates of the actions are the dates specified.

SES-ASG-20100201-00143 E E060373 Sherjan Broadcasting Company, Inc.
Application for Consent to Assignment
Grant of Authority Date Effective: 07/02/2010

Current Licensee: Sherjan Broadcasting Company, Inc.

FROM: SHERJAN BROADCASTING CO., INC.

TO: America-CV Station Group, Inc.

No. of Station(s) listed: 1

SES-LIC-20100519-00611 E E100066 ETERNAL WORD TELEVISION NETWORK, INC. **EZ**
Application for Authority 06/30/2010 - 06/30/2025
Grant of Authority Date Effective: 06/30/2010

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 3222 COUNTY ROAD 548, CULLMAN, HANCEVILLE, AL

34 ° 3 ' 30.50 " N LAT.

86 ° 41 ' 40.80 " W LONG.

ANTENNA ID:	1	9.3 meters	VERTEX	9.3 KPK
	14000.0000 - 14500.0000 MHz	36M0F8F	87.50 dBW	Analog Video w/Audio & Data Subcarriers
	14000.0000 - 14500.0000 MHz	36M0G7W	86.04 dBW	DIGITAL VIDEO w/AUDIO, VOICE, & DATA
	11700.0000 - 12200.0000 MHz	36M0F8F		Analog Video w/Audio & Data Subcarriers
	11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL VIDEO w/AUDIO, VOICE, & DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20100519-00626 E E100067 ETERNAL WORD TELEVISION NETWORK, INC. **EZ**
Application for Authority 06/30/2010 - 06/30/2025
Grant of Authority Date Effective: 06/30/2010

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 5817 OLD LEEDS ROAD, JEFFERSON, BIRMINGHAM, AL
33 ° 31 ' 57.30 " N LAT. 86 ° 40 ' 28.70 " W LONG.

ANTENNA ID:	1	7.2 meters	VERTEX	7.2 KPK
14000.0000 - 14500.0000 MHz	36M0F8F	85.10 dBW	ANALOG VIDEO W/AUDIO & DATA SUBCARRIERS	
14000.0000 - 14500.0000 MHz	36M0G7W	83.64 dBW	DIGITAL VIDEO W/AUDIO, VOICE, & DATA	
11700.0000 - 12200.0000 MHz	36M0F8F		ANALOG VIDEO W/AUDIO & DATA SUBCARRIERS	
11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL VIDEO W/AUDIO, VOICE, & DATA	

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20100520-00629 E E100068 POSITIVE ALTERNATIVE RADIO INC. **EZ**
Application for Authority 06/30/2010 - 06/30/2025
Grant of Authority Date Effective: 06/30/2010

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 492 MAIN STREET, GREENUP, SOUTH SHORE, KY
38 ° 43 ' 8.00 " N LAT. 82 ° 57 ' 47.00 " W LONG.

ANTENNA ID:	Kentucky	2.4 meters	PRODELIN	1251
14000.0000 - 14500.0000 MHz	230KG7W	52.20 dBW	Digitally encoded audio and data @ 192 Kbps, QPSK, 1/2 FEC	
11700.0000 - 12200.0000 MHz	230KG7W		Digitally encoded audio and data @ 192 Kbps, QPSK, 1/2 FEC	

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20100525-00644 E E100069 UNITED SERVICES AUTOMOBILE ASSN (USAA)
Application for Authority 06/30/2010 - 06/30/2025
Grant of Authority Date Effective: 06/30/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: (1.2M.), TRANSPORTABLE

ANTENNA ID:	Sat-Lite	1.2 meters	SAT-LITE	1213
14000.0000 - 14500.0000 MHz		51K2G7W	40.27 dBW	DIGITAL DATA, VARIOUS FEC, VARIOUS DATA RATES
14000.0000 - 14500.0000 MHz		36M0G7W	67.17 dBW	DIGITAL DATA, VARIOUS FEC, VARIOUS DATA RATES, VARIOUS MODULATION

Points of Communication:

1 - PERMITTED LIST - ()

SES-MFS-20100510-00571 E E010016 Hawaii Pacific Teleport, LP
Modification 12/31/2002 - 12/31/2017
Grant of Authority Date Effective: 07/02/2010

Class of Station: Fixed Earth Stations

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

SITE ID: 1
LOCATION: 91-340 FARRINGTON HIGHWAY, KAPOLEI, HI
21 ° 20 ' 8.00 " N LAT. 158 ° 5 ' 25.00 " W LONG.

ANTENNA ID:	9.3M	9.3 meters	ANDREW CORP.	ESA93L
6681.0000 - 6723.0000 MHz		1M23G7W-	63.80 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
6681.0000 - 6723.0000 MHz		36M0G7W	78.50 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
6651.0000 - 6669.0000 MHz		1M23G7W-	63.80 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
6651.0000 - 6669.0000 MHz		36M0G7W	78.50 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
6633.0000 - 6639.0000 MHz		1M23G7W-	63.80 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
6633.0000 - 6639.0000 MHz		36M0G7W	78.50 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS

6587.0000 - 6627.0000 MHz	1M23G7W-	63.80 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
6587.0000 - 6627.0000 MHz	36M0G7W	78.50 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
3600.0000 - 3698.0000 MHz	1M23G7W-		DIGITAL, VARIOUS COMBINATION OF CARRIERS
3600.0000 - 3698.0000 MHz	36M0G7W		DIGITAL, VARIOUS COMBINATION OF CARRIERS
ANTENNA ID: 11M	11 meters	VERTEX	KPC
5925.0000 - 6425.0000 MHz	51K2G7D-	59.50 dBW	DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK.
5925.0000 - 6425.0000 MHz	36M0G7D	84.00 dBW	DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK.
5925.0000 - 6425.0000 MHz	36M0G7W	82.40 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS. Emission range: 51K2G7W to 36M0G7W
5925.0000 - 6425.0000 MHz	51K2G7W	59.50 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
5925.0000 - 6425.0000 MHz	36M0G7D	82.40 dBW	DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK. MESAT-2 only
5925.0000 - 6425.0000 MHz	51K2G7D	59.50 dBW	DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK. Emission Range: 51K2G7D-36M0G7D. MESAT-2 only
3700.0000 - 4200.0000 MHz	51K2G7D-		DIGITAL, QPSK, 3/4 1/2 FEC
3700.0000 - 4200.0000 MHz	36M0G7D		DIGITAL, QPSK, 3/4 1/2 FEC
3700.0000 - 4200.0000 MHz	36M0G7W		DIGITAL, VARIOUS COMBINATION OF CARRIERS
3700.0000 - 4200.0000 MHz	51K2G7W		DIGITAL, VARIOUS COMBINATION OF CARRIERS. Emission range: 51K2G7W to 36M0G7W
3700.0000 - 4200.0000 MHz	36M0G7D		DIGITAL DATA, FEC, 3/4, 1/2 ETC., QPSK. Emission Range: 51K2G7D-36M0G7D.
3700.0000 - 4200.0000 MHz	51K2G7D		DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
3700.0000 - 4200.0000 MHz	10M1G7W		DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.

3700.0000 - 4200.0000 MHz	4M09G7W		DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
5925.0000 - 6425.0000 MHz	10M1G7W	73.38 dBW	DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
5925.0000 - 6425.0000 MHz	4M09G7W	70.84 dBW	DIGITAL DATA, VARIOUS FEC, 3/4, 1/2 ETC., VARIOUS MOD., QPSK, ETC.
ANTENNA ID: 9.3M-2nd	9.3 meters	ANDREW CORP.	ESA9.3-46
5925.0000 - 6425.0000 MHz	36M0G7F	77.40 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	3M00G7F	73.40 dBW	DIGITAL VIDEO. Emission range: 3M00G7F to 36M0G7F
5925.0000 - 6425.0000 MHz	36M0G7W	80.43 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS
5925.0000 - 6425.0000 MHz	51K2G7W	57.97 dBW	DIGITAL, VARIOUS COMBINATION OF CARRIERS. Emission range: 51K2G7W to 36M0G7W
5925.0000 - 6425.0000 MHz	36M0G7D	80.43 dBW	DIGITAL DATA, VARIOUS FEC 3/4, 1/2 ETC VARIOUS MOD QPSK, ETC.
5925.0000 - 6425.0000 MHz	51K2G7D	57.97 dBW	DIGITAL DATA, VARIOUS FEC 3/4, 1/2 ETC VARIOUS MOD QPSK, ETC. Emission range: 51K2G7D to 36M0G7D
3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	3M00G7F		DIGITAL VIDEO. Emission range: 3M00G7F to 36M0G7F
3700.0000 - 4200.0000 MHz	36M0G7W		DIGITAL, VARIOUS COMBINATION OF CARRIERS
3700.0000 - 4200.0000 MHz	51K2G7W		DIGITAL, VARIOUS COMBINATION OF CARRIERS. Emission range: 51K2G7W to 36M0G7W
3700.0000 - 4200.0000 MHz	36M0G7D		DIGITAL DATA, VARIOUS FEC 3/4, 1/2 ETC VARIOUS MOD QPSK, ETC.
3700.0000 - 4200.0000 MHz	51K2G7D		DIGITAL DATA, VARIOUS FEC 3/4, 1/2 ETC VARIOUS MOD QPSK, ETC. Emission range: 51K2G7D to 36M0G7D

Points of Communication:

1 - ALSAT - (ALSAT)

1 - APSTAR V - (138 E.L.)

1 - APSTAR VI - (226 W.L.)

1 - JCSAT 5A - (132 E.L.)

1 - Mabuhay (AGILA 2) - (146 E.L.)

1 - MEASAT-2 - (148 E.L.)

SES-MFS-20100514-00592 E E070026 STM Networks Inc

Modification

04/02/2007 - 04/02/2022

Grant of Authority

Date Effective: 06/30/2010

Class of Station: Fixed Earth Stations

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

SITE ID: IRVINE1

LOCATION: 2 FARADAY (4.5M. HUB-2), ORANGE, IRVINE, CA
33 ° 38 ' 27.60 " N LAT.

117 ° 43 ' 19.10 " W LONG.

ANTENNA ID:	Hub 2	4.5 meters	ANDREW	K45T
	11700.0000 - 12200.0000 MHz		4M50G7W	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		4M50G7W 71.00 dBW	DIGITAL VIDEO, VOICE, AND DATA

SITE ID: REMOTE 3

LOCATION: (1.8M. VSAT), 50 UNITS, CONUS, US, AK, HI

ANTENNA ID:	R18	1.8 meters	PRODELIN CORPORATION	1184
	11700.0000 - 12200.0000 MHz		4M50G7W	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		2M20G7W 52.50 dBW	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		4M50G7W 52.50 dBW	DIGITAL VIDEO, VOICE, AND DATA
	11700.0000 - 12200.0000 MHz		2M20G7W	DIGITAL VIDEO, VOICE, AND DATA

SITE ID: Jacksonville2

LOCATION: 4905 BELFORT ROAD, STE 145, DUVAL, JACKSONVILLE, FL
30 ° 14 ' 44.00 " N LAT.

81 ° 34 ' 53.00 " W LONG.

ANTENNA ID:	Hub4	4.5 meters	SHAANXI PROBECOM	K45T
	11700.0000 - 12200.0000 MHz		2M20G7W	DIGITAL VIDEO, VOICE, AND DATA
	11700.0000 - 12200.0000 MHz		4M50G7W	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		2M20G7W 67.90 dBW	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		4M50G7W 71.00 dBW	DIGITAL VIDEO, VOICE, AND DATA

SITE ID: Remote4

LOCATION:

ANTENNA ID:	R19	1 meters	SEATEL	4006RZA	
	11700.0000 - 12200.0000 MHz		2M20G7W	DIGITAL VIDEO, VOICE, AND DATA	
	11700.0000 - 12200.0000 MHz		4M50G7W	DIGITAL VIDEO, VOICE, AND DATA	
	14000.0000 - 14500.0000 MHz		2M20G7W	46.70 dBW	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		4M50G7W	46.70 dBW	DIGITAL VIDEO, VOICE, AND DATA

SITE ID: Remote5

LOCATION:

ANTENNA ID:	R20	0.6 meters	SEATEL	2406	
	11700.0000 - 12200.0000 MHz		4M50G7W	DIGITAL VIDEO, VOICE, AND DATA	
	11700.0000 - 12200.0000 MHz		2M20G7W	DIGITAL VIDEO, VOICE, AND DATA	
	14000.0000 - 14500.0000 MHz		2M20G7W	46.70 dBW	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		4M50G7W	46.70 dBW	DIGITAL VIDEO, VOICE, AND DATA

SITE ID: Remote6

LOCATION: Martime-Atlantic and Pacific

ANTENNA ID:	R21	1.5 meters	SEATEL	6009	
	11700.0000 - 12200.0000 MHz		2M20G7W	DIGITAL VIDEO, VOICE, AND DATA	
	11700.0000 - 12200.0000 MHz		4M50G7W	DIGITAL VIDEO, VOICE, AND DATA	
	14000.0000 - 14500.0000 MHz		2M20G7W	46.70 dBW	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		4M50G7W	46.70 dBW	DIGITAL VIDEO, VOICE, AND DATA

SITE ID: IRVINE3

LOCATION: 2 FARADAY (3.8M. HUB-3), ORANGE, IRVINE, CA

33 ° 38 ' 27.60 " N LAT.

117 ° 43 ' 19.10 " W LONG.

ANTENNA ID:	Hub 3	3.8 meters	PATRIOT ANTENNA SYS.	2M38091	
	11700.0000 - 12200.0000 MHz		2M20G7W	DIGITAL VIDEO, VOICE, AND DATA	
	11700.0000 - 12200.0000 MHz		4M50G7W	DIGITAL VIDEO, VOICE, AND DATA	
	14000.0000 - 14500.0000 MHz		2M20G7W	66.90 dBW	DIGITAL VIDEO, VOICE, AND DATA
	14000.0000 - 14500.0000 MHz		4M50G7W	70.00 dBW	DIGITAL VIDEO, VOICE, AND DATA

11700.0000 - 12200.0000 MHz	2M20G7W		DIGITAL VIDEO, VOICE, AND DATA
14000.0000 - 14500.0000 MHz	2M20G7W	66.90 dBW	DIGITAL VIDEO, VOICE, AND DATA

SITE ID: REMOTE 1
LOCATION: (1.0M. VSAT), 200 UNITS, CONUS, US, AK, HI

ANTENNA ID: R10	1 meters	PATRIOT ANTENNA SYS.	100KUG
11700.0000 - 12200.0000 MHz	2M20G7W		DIGITAL VIDEO, VOICE, AND DATA
14000.0000 - 14500.0000 MHz	2M20G7W	46.70 dBW	DIGITAL VIDEO, VOICE, AND DATA
14000.0000 - 14500.0000 MHz	4M50G7W	46.70 dBW	DIGITAL VIDEO, VOICE, AND DATA
11700.0000 - 12200.0000 MHz	4M50G7W		DIGITAL VIDEO, VOICE, AND DATA

SITE ID: Jacksonville1
LOCATION: 4905 BELFORT ROAD, SUITE 145, (4.5M. HUB-1), DUVAL, JACKSONVILLE, FL
30 ° 14 ' 44.00 " N LAT. 81 ° 34 ' 53.00 " W LONG.

ANTENNA ID: Hub 1	4.5 meters	SHAANXI PROBECOM	K45T
11700.0000 - 12200.0000 MHz	2M20G7W		DIGITAL VIDEO, VOICE, AND DATA
11700.0000 - 12200.0000 MHz	4M50G7W		DIGITAL VIDEO, VOICE, AND DATA
14000.0000 - 14500.0000 MHz	4M50G7W	71.00 dBW	DIGITAL VIDEO, VOICE, AND DATA
14000.0000 - 14500.0000 MHz	2M20G7W	67.90 dBW	DIGITAL VIDEO, VOICE, AND DATA

SITE ID: REMOTE 2
LOCATION: (1.2M. VSAT), 200 UNITS, CONUS, US, AK, HI

ANTENNA ID: R12	1.2 meters	PRODELIN CORPORATION	1123
11700.0000 - 12200.0000 MHz	2M20G7W		DIGITAL VIDEO, VOICE, AND DATA
11700.0000 - 12200.0000 MHz	4M50G7W		DIGITAL VIDEO, VOICE, AND DATA
14000.0000 - 14500.0000 MHz	2M20G7W	48.00 dBW	DIGITAL VIDEO, VOICE, AND DATA
14000.0000 - 14500.0000 MHz	4M50G7W	48.00 dBW	DIGITAL VIDEO, VOICE, AND DATA

Points of Communication:

- IRVINE1 - ALSAT - (ALSAT)
- IRVINE1 - SATMEX-5 - (116.8 W.L.)
- IRVINE3 - ALSAT - (ALSAT)
- IRVINE3 - GE-23 - (172 E. L.)

Jacksonville1 - ALSAT - (ALSAT)

Jacksonville1 - NSS-7 - (22 W.L.)

Jacksonville2 - ALSAT - (ALSAT)

Jacksonville2 - TELSTAR 11N - (37.55 W.L.)

REMOTE 1 - ALSAT - (ALSAT)

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

REMOTE 1 - TELSTAR 11N - (37.55 W.L.)

REMOTE 2 - ALSAT - (ALSAT)

REMOTE 2 - NSS-7 - (22 W.L.)

REMOTE 2 - SATMEX-5 - (116.8 W.L.)

REMOTE 2 - TELSTAR 11N - (37.55 W.L.)

REMOTE 3 - ALSAT - (ALSAT)

REMOTE 3 - NSS-7 - (22 W.L.)

REMOTE 3 - SATMEX-5 - (116.8 W.L.)

REMOTE 3 - TELSTAR 11N - (37.55 W.L.)

Remote4 - ALSAT - (ALSAT)

Remote4 - GE-23 - (172 E. L.)

Remote4 - NSS 5 - (177 W.L.)

Remote4 - SATMEX-5 - (116.8 W.L.)

Remote4 - TELSTAR 11N - (37.55 W.L.)

Remote5 - GE-23 - (172 E. L.)

Remote5 - NSS-7 - (22 W.L.)

Remote5 - SATMEX-5 - (116.8 W.L.)

Remote5 - TELSTAR 11N - (37.55 W.L.)

Remote6 - GE-23 - (172 E. L.)

Remote6 - NSS-7 - (22 W.L.)

Remote6 - SATMEX-5 - (116.8 W.L.)

Remote6 - TELSTAR 11N - (37.55 W.L.)

SES-MOD-20100414-00444 E E030120 Amtech Systems LLC
Application for Modification
Grant of Authority

07/14/2003 - 07/14/2018
Date Effective: 07/02/2010

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1
LOCATION: 100,000 half-duplex METs in the United States, VARIOUS

ANTENNA ID:	A4	0.1 meters	Transcore Link Logistics Corporation	MT-3000	
	1626.5000 - 1645.5000 MHz		20K0G1D	5.00 dBW	OQPSK/DATA
	1530.0000 - 1544.0000 MHz		5K00G1D		BPSK/DATA
ANTENNA ID:	A3	0.1 meters	Transcore Link Logistics Corporation	MT-2000	
	1626.5000 - 1645.5000 MHz		20K0G1D	5.00 dBW	OQPSK/DATA
	1530.0000 - 1544.0000 MHz		5K00G1D		BPSK/DATA

Points of Communication:

- 1 - AMSC 1 - (103 W.L.)
- 1 - INMARSAT 3F4 - (142 W.L.)
- 1 - INMARSAT 4F2 - (52.75)
- 1 - ISAT List -
- 1 - MSAT-1 - (106.5 W.L.)

SES-MOD-20100414-00445 E E990316 Amtech Systems LLC
Application for Modification
Grant of Authority

07/02/2006 - 07/02/2012
Date Effective: 07/02/2010

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1
LOCATION: 2,500 half-duplex METs in the United States, VARIOUS

ANTENNA ID:	A2	0.1 meters	Vistar Telecommunication Inc.	MT-1000	
	1626.5000 - 1645.5000 MHz		20K0G1D	5.00 dBW	OQPSK/DATA
	1530.0000 - 1544.0000 MHz		5K00G1D		BPSK/DATA
ANTENNA ID:	A1	0.1 meters	Transcore Link Logistics Corporation	MT-2000	

2 - ALSAT - (ALSAT)

SES-REG-20100510-00576 E E100061 MOUNTAIN RURAL TELEPHONE COOP CORP INC.
Registration 05/10/2010 - 05/10/2025
Grant of Authority Date Effective: 07/02/2010

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1423 HIGHWAY 191, MORGAN, WEST LIBERTY, KY
37 ° 53 ' 11.50 " N LAT. 83 ° 15 ' 53.90 " W LONG.

ANTENNA ID:	A1	4.5 meters	SUPERIOR SATELLITE	4.5M.
	3700.0000 - 4200.0000 MHz		36M0F8W	ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO, AUDIO, AND DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20100514-00595 E WX30 SERVICE ELECTRIC CABLEVISION, INC.
Registration 05/14/2010 - 05/14/2025
Grant of Authority Date Effective: 06/30/2010

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: END OF TOWER ROAD MILE HILL, SUNBURY HEADEND, NORTHUMBERLAND, SUNBURY, PA
40 ° 52 ' 52.30 " N LAT. 76 ° 45 ' 35.90 " W LONG.

ANTENNA ID:	A1	5 meters	SCIENTIFIC-ATLANTA	8008B
	3700.0000 - 4200.0000 MHz		36M0F8W	ANALOG VIDEO
	3700.0000 - 4200.0000 MHz		2M00G7W	DIGITAL AUDIO AND VIDEO
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL AUDIO AND VIDEO

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100615-00700 E E000320 Multimedia Holdings Corporation
Renewal 08/14/2010 - 08/14/2025
Grant of Authority Date Effective: 07/02/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 500 SPEER BLVD. DENVER, DENVER, VARIOUS, CO

ANTENNA ID:	1	1.2 meters	AVL	1.2M DSNG
	14000.0000 - 14500.0000 MHz	24M0G7F	60.37 dBW	PSK DIGITAL VIDEO W/DIGITAL AUDIO/DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100623-00746	E	E000294	Freedom Broadcasting of Tennessee, L.L.C., Debtor-In-Possession
Renewal			08/07/2010 - 08/07/2025
Grant of Authority			Date Effective: 07/02/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: VARIOUS

ANTENNA ID:	1	1.5 meters	ADVENT	NEWSSWIFT
	14000.0000 - 14500.0000 MHz	36M0G7W	63.50 dBW	MCPC DIGITAL CARRIER FOR VIDEO/AUDIO/DATA
	11700.0000 - 12200.0000 MHz	36M0G7W		

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100623-00751	E	E5605	Curtis Network Group, LLC
Renewal			07/17/2010 - 07/17/2025
Grant of Authority			Date Effective: 07/02/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: WAKE, NEAR AUBURN, NC
35 ° 40 ' 25.60 " N LAT. 78 ° 32 ' 6.00 " W LONG.

ANTENNA ID:	C-7M	7 meters	SATCOM TECHNOLOGIES	700CS
	5925.0000 - 6425.0000 MHz	256KG7D	54.62 dBW	BPSK, DATA
	5925.0000 - 6425.0000 MHz	256KG7D	57.62 dBW	QPSK, DATA

5925.0000 - 6425.0000 MHz	50KF8E	51.62 dBW	ANALOG FM AUDIO
3700.0000 - 4200.0000 MHz	256KG7D		BPSK, DATA
3700.0000 - 4200.0000 MHz	256KG7D		QPSK, DATA
3700.0000 - 4200.0000 MHz	50KF8E		ANALOG FM AUDIO

Points of Communication:

1 - SATCOM C5 - (139 W.L.)

SES-RWL-20100624-00790 E E000277 Globecomm Systems, Inc.
 Renewal 09/14/2010 - 09/14/2025
 Grant of Authority Date Effective: 07/02/2010

Class of Station: VSAT Network

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

SITE ID: REMOTE 1
 LOCATION: (100 UNITS 1.8M.), CONUS

ANTENNA ID:	REMOTE 1A	1.8 meters	PRODELIN	1189	
	14000.0000 - 14500.0000 MHz		77K0G7D	45.34 dBW	DIGITAL, QPSK, FEC 3/4 / data service
	14000.0000 - 14500.0000 MHz		307KG7D	51.35 dBW	DIGITAL, QPSK, FEC 3/4 / data service
	11700.0000 - 12200.0000 MHz		77K0G7D		DIGITAL, QPSK, FEC 3/4 / data service
	11700.0000 - 12200.0000 MHz		307KG7D		DIGITAL, QPSK, FEC 3/4 / data service
ANTENNA ID:	REMOTE 2A	1.8 meters	PRODELIN	1184	
	14000.0000 - 14500.0000 MHz		77K0G7D	45.34 dBW	DIGITAL, QPSK, FEC 3/4 / data service
	14000.0000 - 14500.0000 MHz		307KG7D	51.35 dBW	DIGITAL, QPSK, FEC 3/4 / data service
	11700.0000 - 12200.0000 MHz		77K0G7D		DIGITAL, QPSK, FEC 3/4 / data service
	11700.0000 - 12200.0000 MHz		307KG7D		DIGITAL, QPSK, FEC 3/4 / data service

Points of Communication:

- REMOTE 1 - ALSAT - (ALSAT)
- REMOTE 1 - ANIK E1 - (118.7 W.L.)
- REMOTE 1 - ANIK E2 - (111.1 W.L.)
- REMOTE 1 - SATMEX-5 - (116.8 W.L.)

SES-RWL-20100624-00791 E E000278 Globecom Systems, Inc.

Renewal

09/14/2010 - 09/14/2025

Grant of Authority

Date Effective: 07/02/2010

Class of Station: VSAT Network

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

SITE ID: REMOTE 2

LOCATION: 45 OSER AVENUE, (1.8M. VSAT), CONUS, (50 UNITS)

ANTENNA ID:	REMOTE 2A	1.8 meters	PRODELIN	1184
	14000.0000 - 14500.0000 MHz		44K0G7D 42.91 dBW	DIGITAL, QPSK, FEC, 3/4 / data service
	14000.0000 - 14500.0000 MHz		461KG7D 53.11 dBW	DIGITAL, QPSK, FEC, 3/4 / data service
	11700.0000 - 12200.0000 MHz		44K0G7D	DIGITAL, QPSK, FEC, 3/4 / data service
	11700.0000 - 12200.0000 MHz		461KG7D	DIGITAL, QPSK, FEC, 3/4 / data service

SITE ID: REMOTE 3

LOCATION: 45 OSER AVENUE, (1.2M. VSAT), CONUS, (50 UNITS)

ANTENNA ID:	REMOTE 3A	1.2 meters	PRODELIN	1139
	14000.0000 - 14500.0000 MHz		44K0G7D 39.61 dBW	DIGITAL, QPSK, FEC, 3/4 / data service
	14000.0000 - 14500.0000 MHz		461KG7D 49.81 dBW	DIGITAL, QPSK, FEC, 3/4 / data service
	11700.0000 - 12200.0000 MHz		44K0G7D	DIGITAL, QPSK, FEC, 3/4 / data service
	11700.0000 - 12200.0000 MHz		461KG7D	DIGITAL, QPSK, FEC, 3/4 / data service

SITE ID: REMOTE 4

LOCATION: 45 OSER AVENUE, (1.2M. VSAT), CONUS, (50 UNITS)

ANTENNA ID:	REMOTE 4A	1.2 meters	PRODELIN	1134
	14000.0000 - 14500.0000 MHz		44K0G7D 39.41 dBW	DIGITAL, QPSK, FEC, 3/4 / data service
	14000.0000 - 14500.0000 MHz		461KG7D 49.81 dBW	DIGITAL, QPSK, FEC, 3/4 / data service
	11700.0000 - 12200.0000 MHz		44K0G7D	DIGITAL, QPSK, FEC, 3/4 / data service
	11700.0000 - 12200.0000 MHz		461KG7D	DIGITAL, QPSK, FEC, 3/4 / data service

SITE ID: REMOTE 5

LOCATION: 45 OSER AVENUE, (.75M. VSAT), CONUS, (100 UNITS)

ANTENNA ID:	REMOTE 5A	0.75 meters	AVL TECHNOLOGIES	9066K
	14000.0000 - 14500.0000 MHz		596KG7D 47.40 dBW	DIGITAL, DATA

11700.0000 - 12200.0000 MHz	647KG7D		DIGITAL , DATA
SITE ID: HUB			
LOCATION: 45 OSER AVENUE, (3.7M. HUB), SUFFOLK, HAUPPAUGE, NY			
40 ° 48 ' 44.40 " N LAT.		73 ° 14 ' 13.40 " W LONG.	
ANTENNA ID: HUB A	3.7 meters	ANDREWS CORP.	ES37MPK
14000.0000 - 14500.0000 MHz	44K0G7D	49.71 dBW	DIGITAL, QPSK, FEC 3/4
14000.0000 - 14500.0000 MHz	461KG7D	59.91 dBW	DIGITAL, QPSK, FEC, 3/4
14000.0000 - 14500.0000 MHz	596KG7D	55.90 dBW	DIGITAL, DATA
11700.0000 - 12200.0000 MHz	44K0G7D		DIGITAL, QPSK, FEC 3/4
11700.0000 - 12200.0000 MHz	461KG7D		DIGITAL, QPSK, FEC, 3/4
11700.0000 - 12200.0000 MHz	647KG7D		DIGITAL, DATA

SITE ID: REMOTE 1
LOCATION: 45 OSER AVENUE, (1.8M. VSAT), CONUS, (50 UNITS)

ANTENNA ID: REMOTE 1A	1.8 meters	PRODELIN	1189
14000.0000 - 14500.0000 MHz	44K0G7D	42.91 dBW	DIGITAL, QPSK, FEC, 3/4 / data service
14000.0000 - 14500.0000 MHz	461KG7D	53.11 dBW	DIGITAL, QPSK, FEC, 3/4 / data service
11700.0000 - 12200.0000 MHz	44K0G7D		DIGITAL, QPSK, FEC, 3/4 / data service
11700.0000 - 12200.0000 MHz	461KG7D		DIGITAL, QPSK, FEC, 3.4 / data service

Points of Communication:

- HUB - ALSAT - (ALSAT)
- HUB - ANIK E1 - (118.7 W.L.)
- HUB - ANIK E2 - (111.1 W.L)
- HUB - INTELSAT AMERICAS-6 - (93 W.L.)
- HUB - SATMEX-5 - (116.8 W.L.)
- REMOTE 1 - ALSAT - (ALSAT)
- REMOTE 1 - ANIK E1 - (118.7 W.L.)
- REMOTE 1 - ANIK E2 - (111.1 W.L)
- REMOTE 1 - SATMEX-5 - (116.8 W.L.)
- REMOTE 2 - ALSAT - (ALSAT)

REMOTE 2 - ANIK E1 - (118.7 W.L.)
 REMOTE 2 - ANIK E2 - (111.1 W.L.)
 REMOTE 2 - SATMEX-5 - (116.8 W.L.)
 REMOTE 3 - ALSAT - (ALSAT)
 REMOTE 3 - ANIK E1 - (118.7 W.L.)
 REMOTE 3 - ANIK E2 - (111.1 W.L.)
 REMOTE 3 - SATMEX-5 - (116.8 W.L.)
 REMOTE 4 - ALSAT - (ALSAT)
 REMOTE 4 - ANIK E1 - (118.7 W.L.)
 REMOTE 4 - ANIK E2 - (111.1 W.L.)
 REMOTE 4 - SATMEX-5 - (116.8 W.L.)
 REMOTE 5 - INTELSAT AMERICAS-6 - (93 W.L.)

SES-RWL-20100628-00828 E KA273 AT&T Corp.

Renewal

08/06/2010 - 08/06/2025

Grant of Authority

Date Effective: 07/02/2010

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: 1700 S. BARDMAN AVENUE, LOS ANGELES, MALIBU, CA

34 ° 4 ' 50.30 " N LAT.

118 ° 53 ' 46.40 " W LONG.

ANTENNA ID:	1	32 meters	ROHR INDUSTRIES, INC.	10578
	5850.0000 - 6425.0000 MHz	18M0F3F-	85.40 dBW	(TV)
	5850.0000 - 6425.0000 MHz	30M0F3F	85.40 dBW	
	5850.0000 - 6425.0000 MHz	1M13F8W-	71.70 dBW	(FDM-FM)
	5850.0000 - 6425.0000 MHz	36M0F8W	87.90 dBW	(FDM-FM)
	5850.0000 - 6425.0000 MHz	30M7G7W	77.00 dBW	(DATA)
	5850.0000 - 6425.0000 MHz	66M8G7W	81.20 dBW	DATA
	5850.0000 - 6425.0000 MHz	72M0G7W	88.80 dBW	TDMA
	5850.0000 - 6425.0000 MHz	307KG7W	55.70 dBW	TDMA
	5850.0000 - 6425.0000 MHz	614KG7W	55.70 dBW	TDMA

5850.0000 - 6425.0000 MHz	1M23G7W	55.70 dBW	TDMA
5850.0000 - 6425.0000 MHz	38K4G7W	66.50 dBW	SCPC
5850.0000 - 6425.0000 MHz	54K6G7W	67.50 dBW	IDR
5850.0000 - 6425.0000 MHz	437KG7W	76.80 dBW	IDR
5850.0000 - 6425.0000 MHz	874KG7W	79.80 dBW	IDR
5850.0000 - 6425.0000 MHz	1M31G7W	81.60 dBW	IDR
5850.0000 - 6425.0000 MHz	1M72G7W	82.80 dBW	IDR
5850.0000 - 6425.0000 MHz	5M13G7W	87.50 dBW	IDR
5850.0000 - 6425.0000 MHz	6M84G7W	85.90 dBW	IDR
5850.0000 - 6425.0000 MHz	81K9G7W	68.00 dBW	IBS
5850.0000 - 6425.0000 MHz	164KG7W	71.00 dBW	IBS
5850.0000 - 6425.0000 MHz	328KG7W	74.00 dBW	IBS
5850.0000 - 6425.0000 MHz	492KG7W	75.80 dBW	IBS
5850.0000 - 6425.0000 MHz	655KG7W	77.00 dBW	IBS
5850.0000 - 6425.0000 MHz	983KG7W	78.80 dBW	IBS
5850.0000 - 6425.0000 MHz	1M97G7W	81.80 dBW	IBS
5850.0000 - 6425.0000 MHz	2M62G7W	83.10 dBW	IBS
5850.0000 - 6425.0000 MHz	8M34G7W	87.40 dBW	IBS
5850.0000 - 6425.0000 MHz	11M2G7W	88.60 dBW	IBS
5850.0000 - 6425.0000 MHz	54K6G7W	69.60 dBW	IBS
5850.0000 - 6425.0000 MHz	109KG7W	72.60 dBW	IBS
5850.0000 - 6425.0000 MHz	218KG7W	75.60 dBW	IBS
5850.0000 - 6425.0000 MHz	328KG7W	77.40 dBW	IBS
5850.0000 - 6425.0000 MHz	437KG7W	78.60 dBW	IBS
5850.0000 - 6425.0000 MHz	655KG7W	80.40 dBW	IBS
5850.0000 - 6425.0000 MHz	1M31G7W	83.40 dBW	IBS

6225.0000 - 6425.0000 MHz	36M0G7W	84.00 dBW	Digital Multiplexed carrier QPSK data, voice and video (non DTH)
3940.0000 - 4200.0000 MHz	3M09G7W		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
3940.0000 - 4200.0000 MHz	1M54G7W		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
3940.0000 - 4200.0000 MHz	384KG7W		QPSK, R=1/2 Encoded: Digital Multiplexed Carrier/ international voice, video, facsimile and data.
3700.0000 - 4200.0000 MHz	51K2G7D-		QPSK, Digital Multiplexed Carrier
3700.0000 - 4200.0000 MHz	36M0G7W		QPSK, Digital Multiplexed Carrier
3700.0000 - 3940.0000 MHz	51K2G7D-		QPSK, Digital Multiplexed Carrier
3700.0000 - 3940.0000 MHz	36M0G7W		QPSK, Digital Multiplexed Carrier

Points of Communication:

1 - ALSAT - (ALSAT)

1 - JCSAT-3 - (128 E.L.)

1 - Mabuhay (AGILA 2) - (146 E.L.)

SES-RWL-20100630-00845	E E000152	SES Americom, Inc.	09/18/2010 - 09/18/2025
Renewal			Date Effective: 07/02/2010
Grant of Authority			

Class of Station: Fixed Earth Stations

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

SITE ID: 1
 LOCATION: 8000 GAINESFORD CT., PRINCE WILLIAM, BRISTOW, VA
 38 ° 47 ' 1.60 " N LAT. 77 ° 34 ' 24.30 " W LONG.

ANTENNA ID: 9M.	9 meters	VERTEX	KPC
11701.0000 - 11701.0000 MHz	NON		CW, Tracking Beacon
11452.0000 - 11452.0000 MHz	NON		CW, Tracking Beacon
11198.0000 - 11198.0000 MHz	NON		CW, Tracking Beacon
6491.0000 - 6650.0000 MHz	20M0G7W-	66.20 dBW	Digital voice, data tracking & telecommand via New Skies satellites only

6491.0000 - 6650.0000 MHz	36M0G7W	68.75 dBW	Digital voice, video, data tracking & telecommand via New Skies satellites only
6425.0000 - 6491.0000 MHz	36M0G7W	68.75 dBW	Digital voice, video, data tracking & telecommand
6425.0000 - 6491.0000 MHz	20M0G7W	66.20 dBW	Digital voice, video, data tracking & telecommand
6175.5500 - 6177.0500 MHz	900KF1D	74.00 dBW	FM, Telecommand Frequency 2
6172.9500 - 6174.4500 MHz	900KF1D	74.00 dBW	FM, Telecommand Frequency 1
5925.0000 - 6425.0000 MHz	20M0G7W-	66.20 dBW	Digital voice, video, data tracking & telecommand
5925.0000 - 6425.0000 MHz	36M0G7W	68.75 dBW	Digital voice, video, data tracking & telecommand
5850.0000 - 5925.0000 MHz	20M0G7W-	66.20 dBW	Digital voice, video, data tracking & telecommand
5850.0000 - 5925.0000 MHz	36M0G7W	68.75 dBW	Digital voice, video, data tracking & telecommand
3952.2500 - 3952.7500 MHz	500KG7D		PM, Telemetry Beacpm 2(Beacon 2 and 2A not simultaneous)
3951.7500 - 3952.2500 MHz	500KG7D		PM, Telemetry Beacpm 2(Beacon 2 and 2A not simultaneous)
3950.0000 - 3950.0000 MHz	NON		CW, Tracking Beacon
3947.7500 - 3948.2500 MHz	500KG7D		PM, Telemetry Beacon 1A (Beacon 1 and 1A not Simultaneous)
3947.2500 - 3947.7500 MHz	500KG7D		PM, Telemetry Beacon 1A (Beacon 1 and 1A not Simultaneous)
3700.0000 - 4200.0000 MHz	20M0G7W-		Digital voice, video, data tracking & telecommand
3700.0000 - 4200.0000 MHz	36M0G7W		Digital voice, video, data tracking & telecommand
3625.0000 - 3700.0000 MHz	20M0G7W-		Digital voice, video, data tracking & telecommand
3625.0000 - 3700.0000 MHz	36M0G7W		Digital voice, video, data tracking & telecommand
ANTENNA ID: 6.5M.	6.5 meters	ANDREW CORP.	ES65-1
5925.0000 - 6425.0000 MHz	36M0G7W	78.00 dBW	DIGITAL TRAFFIC, VARIOUS FEC, VARIOUS DATA RATES, VARIOUS INFORMATION

5925.0000 - 6425.0000 MHz	102KG7W	56.80 dBW	DIGITAL TRAFFIC, VARIOUS FEC, VARIOUS DATA RATES, VARIOUS INFORMATION
3700.0000 - 4200.0000 MHz	36M0G7W		DIGITAL TRAFFIC, VARIOUS FEC, VARIOUS DATA RATES, VARIOUS INFORMATION
3700.0000 - 4200.0000 MHz	102KG7W		DIGITAL TRAFFIC, VARIOUS FEC, VARIOUS DATA RATES, VARIOUS INFORMATION

Points of Communication:

- 1 - ALSAT - (ALSAT)
- 1 - INTELSAT AOR - (307.0 E.L.)
- 1 - New Skies 806 - (319.5 E.L.)
- 1 - NSS-7 - (22 W.L.)
- 1 - NSS-8 - (105 W.L.)

SES-RWL-20100701-00847	E	E000363	PANAMSAT LICENSEE CORP.	09/12/2010 - 09/12/2025
Renewal				Date Effective: 07/02/2010
Grant of Authority				

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: Filmore
LOCATION: 33 Telegraph Road, Ventura, Filmore, CA
34 ° 24 ' 18.00 " N LAT. 118 ° 53 ' 39.00 " W LONG.

ANTENNA ID: FC-11/12	9.1 meters	Scientific Atlanta	8009A
5925.0000 - 6425.0000 MHz	750KF2D	73.90 dBW	Command carrier
5925.0000 - 6425.0000 MHz	3M00G7W	74.00 dBW	Digital video and data
5925.0000 - 6425.0000 MHz	36M0G7W	85.00 dBW	Digital video and data
5925.0000 - 6425.0000 MHz	64K0G7D	60.00 dBW	Digital data
5925.0000 - 6425.0000 MHz	18M0F8F	80.80 dBW	Analog video
5925.0000 - 6425.0000 MHz	36M0F8F	83.80 dBW	Analog video
3700.0000 - 4200.0000 MHz	750KF2D		
3700.0000 - 4200.0000 MHz	3M00G7W		
3700.0000 - 4200.0000 MHz	36M0G7W		

3700.0000 - 4200.0000 MHz	64K0G7D
3700.0000 - 4200.0000 MHz	18M0F8F
3700.0000 - 4200.0000 MHz	36M0F8F

Points of Communication:

Filmore - ALSAT - (ALSAT)

SES-RWL-20100701-00848	E E000274	PANAMSAT LICENSEE CORP.	08/10/2010 - 08/10/2025
Renewal			Date Effective: 07/02/2010
Grant of Authority			

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: Napa
 LOCATION: 961 Anselmo Court, Napa, Napa, CA
 38 ° 14 ' 43.00 " N LAT. 122 ° 16 ' 44.00 " W LONG.

ANTENNA ID: 1	9.3 meters	Vertex	9.3KPK
14000.0000 - 14500.0000 MHz	64K0G7D	52.30 dBW	Digital data
14000.0000 - 14500.0000 MHz	3M00G7W	69.00 dBW	Digital video and data
14000.0000 - 14500.0000 MHz	36M0G7W	87.00 dBW	Digital video and data
14000.0000 - 14500.0000 MHz	18M0F8F	84.00 dBW	Analog video
14000.0000 - 14500.0000 MHz	36M0F8W	87.00 dBW	Analog video
14000.0000 - 14500.0000 MHz	750KF2D	70.00 dBW	Command carrier
11700.0000 - 12200.0000 MHz	64K0G7D		
11700.0000 - 12200.0000 MHz	36M0G7W		
11700.0000 - 12200.0000 MHz	3M00G7W		
11700.0000 - 12200.0000 MHz	18M0F8F		
11700.0000 - 12200.0000 MHz	36M0F8W		
11700.0000 - 12200.0000 MHz	750KF2D		

Points of Communication:

Napa - ALSAT - (ALSAT)

SES-RWL-20100701-00849 E E000296 Intelsat North America LLC

Renewal

08/09/2010 - 08/09/2025

Grant of Authority

Date Effective: 07/02/2010

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: 22021 COMSAT DRIVE, MONTGOMERY, CLARKSBURG, MD

39 ° 13 ' 3.30 " N LAT.

77 ° 16 ' 13.90 " W LONG.

ANTENNA ID:	1	9 meters	VERTEX COMM.	9 KPC
5925.0000 - 6425.0000 MHz			800KF9D 80.00 dBW	TRACKING, TELEMETRY, AND RANGING CARRIER
5925.0000 - 6425.0000 MHz			800KF9D 81.00 dBW	COMMAND AND RANGING
5850.0000 - 5925.0000 MHz			800KF9D 80.00 dBW	TRACKING, TELEMETRY, AND RANGING CARRIER
5850.0000 - 5925.0000 MHz			800KF9D 81.00 dBW	TEST/COMM
3700.0000 - 4200.0000 MHz			800KF9D	TRACKING, TELEMETRY, AND RANGING CARRIER
3700.0000 - 4200.0000 MHz			800KF9D	TELEMETRY AND RANGING
3625.0000 - 4200.0000 MHz			800KF9D	TRACKING, TELEMETRY, AND RANGING CARRIER
3625.0000 - 3700.0000 MHz			800KF9D	TEST/COMM

Points of Communication:

- 1 - ALSAT - (ALSAT)
- 1 - INTELSAT 805 - (304.5 E.L.)
- 1 - INTELSAT AOR - (307.0 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 - New Skies 806 - (319.5 E.L.)

1 - NSS-5 - (183 E.L.)

SES-RWL-20100701-00850 E E000364 PANAMSAT LICENSEE CORP.

Renewal

09/08/2010 - 09/08/2025

Grant of Authority

Date Effective: 07/02/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: Atlanta

LOCATION: 2857 Fork Creek Church Rd, Dekalb, Ellenwood, GA

33 ° 39 ' 52.00 " N LAT.

84 ° 16 ' 16.00 " W LONG.

ANTENNA ID:	1	9 meters	Weston	WAL9mKu	
	14000.0000 - 14500.0000 MHz		64K0G7W	60.00 dBW	Digital video and data
	14000.0000 - 14500.0000 MHz		36M0G7W	80.00 dBW	Digital video and data
	14000.0000 - 14500.0000 MHz		18M0F8F	77.00 dBW	Analog video
	14000.0000 - 14500.0000 MHz		36M0F8F	80.00 dBW	Analog video
	11700.0000 - 12200.0000 MHz		64K0G7W		Digital video and data
	11700.0000 - 12200.0000 MHz		36M0G7W		Digital video and data
	11700.0000 - 12200.0000 MHz		18M0F8F		Analog video
	11700.0000 - 12200.0000 MHz		36M0F8F		Analog video

Points of Communication:

Atlanta - ALSAT - (ALSAT)

SES-RWL-20100701-00854 E E900412 Production & Satellite Services, Inc.

Renewal

08/24/2010 - 08/24/2025

Grant of Authority

Date Effective: 07/02/2010

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 4415 WAGON TRAIL, CLARK, LAS VEGAS, NV

ANTENNA ID:	1	2.4 meters	SATCOM TECHNOLOGIES	240 KV	
	14000.0000 - 14500.0000 MHz		36M0F3F	74.74 dBW	ANALOG TV WITH ASSOCIATED AUDIO

14000.0000 - 14500.0000 MHz	36M0G7F	74.74 dBW	DIGITAL TV WITH ASSOCIATED AUDIO
14000.0000 - 14500.0000 MHz	4M00G7F	62.20 dBW	DIGITAL TV WITH ASSOCIATED AUDIO
11700.0000 - 12200.0000 MHz	36M0F3F		ANALOG TV WITH ASSOCIATED AUDIO
11700.0000 - 12200.0000 MHz	36M0G7F		DIGITAL TV WITH ASSOCIATED AUDIO
11700.0000 - 12200.0000 MHz	4M00G7F		DIGITAL TV WITH ASSOCIATED AUDIO

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20100701-00855 E E000166 HNS License Sub, LLC
 Renewal 09/13/2010 - 09/13/2025
 Grant of Authority Date Effective: 07/02/2010

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

SITE ID: TF TR 1.2M
 LOCATION: CONUS, AK, HI, PR, VI 1.2 M (50,000 UNITS)

ANTENNA ID:	TF TR 1.2	1.2 meters	PRODELIN	1134
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER	
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER	
14000.0000 - 14500.0000 MHz	800KG7W	46.10 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER	
14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER	
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER	
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER	
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER	

11700.0000 - 12200.0000 MHz	6M00G7D			QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
SITE ID: R1.2M				
LOCATION: VSAT 1.2M (10 UNITS) CONUS, AK, HI, PR, VI				
ANTENNA ID: R1.2	1.2 meters	PRODELIN		1134
SITE ID: TR 74CM				
LOCATION: VSAT 0.74M (98 x 56 cm) (350,000 UNITS), CONUS, AK,HI,PR, VI				
ANTENNA ID: TR 74CM	0.74 meters	PRODELIN		HANT-91TR
14000.0000 - 14500.0000 MHz	200KG7D	42.00 dBW		QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	42.00 dBW		QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	42.00 dBW		QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW		QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D			QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D			QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D			QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
SITE ID: TR 1.2M				
LOCATION: VSAT 1.2M (100,000 UNITS) CONUS, AK, HI, VI, PR				
ANTENNA ID: TR 1.2M	1.2 meters	PRODELIN CORP.		1134
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW		QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW		QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW		QPSK, DIGITAL, 512 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID: TR 1.8 1.8 meters PRODELIN CORP. 1184

14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	49.70 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: HUB-B
LOCATION: 7.6M (HUB) 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 46.00 " N LAT. 77 ° 14 ' 41.00 " W LONG.

ANTENNA ID: HubB7.6 7.6 meters ANDREW CORP. ES76K-1

14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	53.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER

SITE ID: TR 1.0M

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

ANTENNA ID: TR 1.0 1 meters PRODELIN CORP. (135 cm x 58 cm) 1102

14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	OQPSK, DIGITAL 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.00 dBW	OQPSK, DIGITAL 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.00 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	12M0G7D			OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID: TF TR 98CM 0.98 meters PRODELIN 3981-226;9008688

14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	DIGITAL, PSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	DIGITAL, PSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	DIGITAL, PSK, DIGITAL, 1024 KSPS, RETURN CARRIER

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

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

ANTENNA ID: TF TR 74 0.74 meters PRODELIN HANT-91TR

14000.0000 - 14500.0000 MHz	200KG7D	42.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7W	42.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	42.00 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	24M0G7D	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: HUB-A
LOCATION: 7.6M.(HUB) 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 49.00 " N LAT. 77 ° 14 ' 47.00 " W LONG.

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

SITE ID: TR 2.4M
LOCATION: VSAT 2.4M (11,000 units), CONUS, AK, HI, VI, P

ANTENNA ID: TR 2.4M	2.4 meters	PRODELIN CORP.	1244
14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	52.20 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: HUB-C 7.6M
LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 43.00 " N LAT. 77 ° 14 ' 51.00 " W LONG.

ANTENNA ID: HubC 7.6M 7.6 meters NEC APS-12/14-F64A

14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	65.00 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	70.80 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: HUB-D 7.6M
 LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
 39 ° 10 ' 42.00 " N LAT. 77 ° 14 ' 53.00 " W LONG.

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

SITE ID: HUB-E 6.1M
 LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
 39 ° 10 ' 46.00 " N LAT. 77 ° 14 ' 49.00 " W LONG.

ANTENNA ID:	HubE 6.1M	6.1 meters	VERTEX	6.1KPK
	14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	6M00G7D	67.70 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	24M0G7D	79.70 dBW	OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

14000.0000 - 14500.0000 MHz	36M0G7D	97.70 dBW	OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DATA, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: HUB-F 5.6M

LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 46.00 " N LAT. 77 ° 14 ' 54.00 " W LONG.

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

11700.0000 - 12200.0000 MHz	400KG7D	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D	BPSK OR MSK, DATA, 522 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: HUB-G 4.6M
LOCATION: 10450 PACIFIC CENTER COURT, SAN DIEGO, SAN DIEGO, CA
32 ° 54 ' 31.00 " N LAT. 117 ° 11 ' 26.00 " W LONG.

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

SITE ID: MESH 3.5M
LOCATION: 11717 EXPLORATION LANE (5,000 3.5M UNITS), CONUS, AK, HI, VI, P

ANTENNA ID: MESH 3.5M	3.5 meters	COMTECH	846400G1
14000.0000 - 14500.0000 MHz	2M46G7D	66.20 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
11700.0000 - 12200.0000 MHz	2M46G7D		BPSK OR OQPSK, DATA, MESH CARRIER

SITE ID: MESH 1.8M
LOCATION: CONUS, AK, HI, PR, VI (5,000 1.8M UNITS)

ANTENNA ID: MESH 1.8M	1.8 meters	HUGHES NETWORK SYSTEMS	PES-RFT-180
14000.0000 - 14500.0000 MHz	156KG7D	48.60 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
11700.0000 - 12200.0000 MHz	156KG7D		BPSK OR OQPSK, DATA, MESH CARRIER

SITE ID: MESH 2.4M
LOCATION: CONUS, AK, HI, PR, VI (5,000 2.4M UNITS)

ANTENNA ID: MESH 2.4M 2.4 meters HUGHES NETWORK SYSTEMS PES-RFT-240

14000.0000 - 14500.0000 MHz 307KG7D 53.70 dBW BPSK OR OQPSK, DATA, MESH CARRIER

11700.0000 - 12200.0000 MHz 307KG7D BPSK OR OQPSK, DATA, MESH CARRIER

SITE ID: MESH 1.2M
LOCATION: CONUS, AK, HI, PR, VI (5,000 1.2M UNITS)

ANTENNA ID: MESH 1.2M 1.2 meters HUGHES NETWORK SYTEMS PES-RFT-120

14000.0000 - 14500.0000 MHz 156KG7D 45.00 dBW BPSK OR OQPSK, DATA, MESH CARRIER

11700.0000 - 12200.0000 MHz 156KG7D BPSK OR OQPSK, DATA, MESH CARRIER

SITE ID: TR 74-2 CM
LOCATION: CONUS, AK, HI, VI, PR 500,000 (.74 METER ANTENNAS)

ANTENNA ID: TR 74-2 0.74 meters RAVEN; PRODELIN HNS-1035610 ;1741

14000.0000 - 14500.0000 MHz 200KG7D 41.70 dBW OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz 400KG7D 41.70 dBW OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz 800KG7D 41.70 dBW OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz 1M60G7D 41.70 dBW OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

11700.0000 - 12200.0000 MHz 6M00G7D OQPSK, DATA, 5 MSPS, MULTIMEDIA

11700.0000 - 12200.0000 MHz 12M0G7D OQPSK, DATA, 10 MSPS, MULTIMEDIA

11700.0000 - 12200.0000 MHz 24M0G7D OQPSK, DATA, 20 MSPS, MULTIMEDIA

11700.0000 - 12200.0000 MHz 36M0G7D OQPSK, DATA, 30 MSPS, MULTIMEDIA

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

ANTENNA ID: TFTR 74-2C 0.74 meters RAVEN; PRODELIN HNS-1035610;1741

14000.0000 - 14500.0000 MHz	200KG7D	41.70 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA

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

ANTENNA ID:	HUB H	11.1 meters	VERTEX	11.1 KPK
14470.0000 - 14497.0000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE	
14470.0000 - 14497.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE	
14470.0000 - 14497.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE	
14470.0000 - 14497.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE	
14253.0000 - 14311.0000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE	
14253.0000 - 14311.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE	
14253.0000 - 14311.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE	
14253.0000 - 14311.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE	
14246.5000 - 14366.5000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE	

14246.5000 - 14366.5000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
12170.0000 - 12197.0000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE

11946.5000 - 12066.5000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	400KG7D	DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	400KG7D	DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	400KG7D	DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE

SITE ID: Hub 1 (3.9 M)
LOCATION: CONUS, AK, HI, PR, VI, Montgomery, Germantown, MD

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

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

ANTENNA ID: TR 98CM	0.98 meters	PRODELIN	3981-226;9008688
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117700.000 - 12200.0000 MHz	36M0G7D			OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW		OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW		OQPSK, DIGITAL, 1024 KSPS, REURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW		DIGITAL PSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW		DIGITAL PSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW		DIGITAL PSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW		DIGITAL PSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D			DIGITAL PSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	12M0G7D			DIGITAL PSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D			DIGITAL PSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	36M0G7D			DIGITAL PSK, DATA, 30 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	6M00G7D			OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D			OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

ANTENNA ID: TR 98CM-2 0.98 meters RAVEN MANUFACTURING LIMITED 3981-226;9008688

Points of Communication:

Hub 1 (3.9 M) - ALSAT - (ALSAT)

HUB H (11.1M) - INTELSAT AMERICAS-6 - (93 W.L.)

HUB-A - ALSAT - (ALSAT)

HUB-A - GALAXY 10R - (123 W.L.)

HUB-A - HORIZONS 1 - (127 WL)

HUB-A - IA-8 - (89 W.L.)

HUB-A - SATMEX-5 - (116.8 W.L.)

HUB-B - ALSAT - (ALSAT)

HUB-B - GALAXY 10R - (123 W.L.)

HUB-B - HORIZONS 1 - (127 WL)

HUB-B - IA-8 - (89 W.L.)

HUB-B - SATMEX-5 - (116.8 W.L.)

HUB-C 7.6M - ALSAT - (ALSAT)

HUB-C 7.6M - GALAXY 10R - (123 W.L.)

HUB-C 7.6M - HORIZONS 1 - (127 WL)

HUB-C 7.6M - IA-8 - (89 W.L.)

HUB-C 7.6M - SATMEX-5 - (116.8 W.L.)

HUB-D 7.6M - ALSAT - (ALSAT)

HUB-D 7.6M - GALAXY 10R - (123 W.L.)

HUB-D 7.6M - HORIZONS 1 - (127 WL)

HUB-D 7.6M - IA-8 - (89 W.L.)

HUB-D 7.6M - SATMEX-5 - (116.8 W.L.)

HUB-E 6.1M - ALSAT - (ALSAT)

HUB-E 6.1M - GALAXY 10R - (123 W.L.)

HUB-E 6.1M - HORIZONS 1 - (127 WL)

HUB-E 6.1M - IA-8 - (89 W.L.)

HUB-E 6.1M - SATMEX-5 - (116.8 W.L.)

HUB-F 5.6M - ALSAT - (ALSAT)

HUB-F 5.6M - GALAXY 10R - (123 W.L.)

HUB-F 5.6M - HORIZONS 1 - (127 WL)

HUB-F 5.6M - IA-8 - (89 W.L.)

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

HUB-G 4.6M - ALSAT - (ALSAT)

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

MESH 1.2M - ALSAT - (ALSAT)

MESH 1.8M - ALSAT - (ALSAT)

MESH 2.4M - ALSAT - (ALSAT)

R1.2M - SATMEX-5 - (116.8 W.L.)

TF TR 1.2M - ALSAT - (ALSAT)

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

TF TR 74CM - AMC-3 - (87 W.L.)

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

TF TR 74CM - AMC-6 - (72 W.L.)

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

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

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

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

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

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

TF TR 74CM - GALAXY III-C - (95 W.L.)

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

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

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

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

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

TF TR 74CM - SATMEX 6 - (113 W.L.)

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

TF TR 98CM - AMC-3 - (87 W.L.)

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

TF TR 98CM - AMC-6 - (72 W.L.)

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

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

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

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

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

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

TF TR 98CM - GALAXY III-C - (95 W.L.)

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

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

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

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

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

TF TR 98CM - SATMEX 6 - (113 W.L.)

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

TFTR 74-2CM - AMC-3 - (87 W.L.)

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

TFTR 74-2CM - AMC-6 - (72 W.L.)

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

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

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

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

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

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

TFTR 74-2CM - GALAXY III-C - (95 W.L.)

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

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

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

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

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

TFTR 74-2CM - SATMEX 6 - (113 W.L.)

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

TR 1.0M - ALSAT - (ALSAT)
TR 1.0M - SATMEX-5 - (116.8 W.L.)
TR 1.2M - ALSAT - (ALSAT)
TR 1.2M - SATMEX-5 - (116.8 W.L.)
TR 1.8M - ALSAT - (ALSAT)
TR 1.8M - SATMEX-5 - (116.8 W.L.)
TR 2.4M - ALSAT - (ALSAT)
TR 2.4M - SATMEX-5 - (116.8 W.L.)
TR 74-2 CM - AMC-3 - (87 W.L.)
TR 74-2 CM - AMC-4 (formerl GE-4 - (101 W.L.)
TR 74-2 CM - AMC-6 - (72 W.L.)
TR 74-2 CM - AMC-9 - (85 W.L.)
TR 74-2 CM - GALAXY 10R - (123 W.L.)
TR 74-2 CM - GALAXY 16 - (99 W.L.)
TR 74-2 CM - GALAXY 17 - (91 W.L.)
TR 74-2 CM - GALAXY 18 - (123 W.L.)
TR 74-2 CM - GALAXY 19 - (97 W.L.)
TR 74-2 CM - GALAXY III-C - (95 W.L.)
TR 74-2 CM - GALAXY XI - (91 W.L.)
TR 74-2 CM - HORIZONS 1 - (127 WL)
TR 74-2 CM - IA-8 - (89 W.L.)
TR 74-2 CM - INTELSAT AMERICAS 5 - (97 W.L.)
TR 74-2 CM - INTELSAT AMERICAS-6 - (93 W.L.)
TR 74-2 CM - SATMEX 6 - (113 W.L.)
TR 74-2 CM - SATMEX-5 - (116.8 W.L.)
TR 74CM - AMC-3 - (87 W.L.)
TR 74CM - AMC-4 (formerl GE-4 - (101 W.L.)
TR 74CM - AMC-6 - (72 W.L.)
TR 74CM - AMC-9 - (85 W.L.)
TR 74CM - GALAXY 10R - (123 W.L.)

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

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

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

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

TR 74CM - GALAXY III-C - (95 W.L.)

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

TR 74CM - HORIZONS 1 - (127 WL)

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

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

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

TR 74CM - SATMEX 6 - (113 W.L.)

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

TR 98CM - AMC-3 - (87 W.L.)

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

TR 98CM - AMC-6 - (72 W.L.)

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

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

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

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

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

TR 98CM - GALAXY III-C - (95 W.L.)

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

TR 98CM - HORIZONS 1 - (127 WL)

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

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

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

TR 98CM - SATMEX 6 - (113 W.L.)

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

SES-RWL-20100702-00859 E E2454 Oral Roberts University

Renewal

09/29/2010 - 09/29/2025

Grant of Authority

Date Effective: 07/02/2010

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 7777 SOUTH LEWIS AVENUE, TULSA, TULSA, OK

36 ° 5 ' 53.30 " N LAT.

95 ° 57 ' 17.00 " W LONG.

ANTENNA ID:	1A	11 meters	HARRIS CORPORATION	5260	
	5925.0000 - 6425.0000 MHz		36M0F3F	85.20 dBW	ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	3700.0000 - 4200.0000 MHz		36M0F3F		ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
ANTENNA ID:	1B	6.3 meters	VERTEX	KPC	
	5925.0000 - 6425.0000 MHz		36M0F8F	73.60 dBW	ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	5925.0000 - 6425.0000 MHz		36M0G7W	76.80 dBW	DIGITAL TRAFFIC, VARIOUS FEC, DATA RATES, MODULATION AND INFORMATION TYPES
	5925.0000 - 6425.0000 MHz		51K2G7W	48.40 dBW	DIGITAL TRAFFIC, VARIOUS FEC, DATA RATES, MODULATION AND INFORMATION TYPES
	3700.0000 - 4200.0000 MHz		36M0F8F		ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL TRAFFIC, VARIOUS FEC, DATA RATES, MODULATION AND INFORMATION TYPES
	3700.0000 - 4200.0000 MHz		51K2G7W		DIGITAL TRAFFIC, VARIOUS FEC, DATA RATES, MODULATION AND INFORMATION TYPES
ANTENNA ID:	1C	3.8 meters	PRODELIN	1383	
	5925.0000 - 6425.0000 MHz		36M0G7W	71.30 dBW	
	5925.0000 - 6425.0000 MHz		64K0G7W	47.00 dBW	
	3700.0000 - 4200.0000 MHz		36M0G7W		
	3700.0000 - 4200.0000 MHz		64K0G7W		

Points of Communication:

1 - ALSAT - (ALSAT)

SES-STA-20100405-00395 E E070098 TerreStar License Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 06/30/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 60 days beginning May 5, 2010 and ending July 5, 2010.

Points of Communication:

SES-STA-20100405-00396 E E070098 TerreStar License Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 06/30/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 60 days beginning May 5, 2010 and ending July 5, 2010.

Points of Communication:

SES-STA-20100405-00397 E E070098 TerreStar License Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 06/30/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 60 days beginning May 5, 2010 and ending July 5, 2010.

Points of Communication:

SES-STA-20100405-00398 E E070098 TerreStar License Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 06/30/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 60 days beginning May 5, 2010 and ending July 5, 2010.

Points of Communication:

SES-STA-20100405-00399 E E070098 TerreStar License Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 06/30/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 60 days beginning May 5, 2010 and ending July 5, 2010.

Points of Communication:

SES-STA-20100503-00517 E KA249 Vizada, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 07/02/2010

Class of Station:

Extension of special temporary authority is GRANTED according to the same conditions in SES-STA-20100304-00294 for an additional 60 days beginning May 10, 2010 and ending July 10, 2010.

Points of Communication:

SES-STA-20100511-00585 E E000035 SPACENET SERVICES LICENSE SUB, INC.
Special Temporary Authority
Grant of Authority

Date Effective: 07/01/2010

Class of Station:

Extension of special temporary authority is GRANTED with conditions for an additional 60 days beginning June 1, 2010 and ending August 1, 2010.

Points of Communication:

SES-STA-20100518-00604 E E100065 ISOTROPIC NETWORKS, INC.
Special Temporary Authority
Grant of Authority

Date Effective: 06/30/2010

Class of Station:

Special Temporary Authority is GRANTED for a period of 60 days beginning June 30, 2010 and ending August 30, 2010.

Points of Communication:

SES-STA-20100601-00665 E Universal Space Network, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 06/30/2010

Class of Station:

Special temporary authority is GRANTED with conditions for 30 days.

Points of Communication:

SES-STA-20100615-00706 E E990444 WATERFALL GROUP LTD
Special Temporary Authority
Grant of Authority

Date Effective: 07/01/2010

Class of Station:

Special temporary authority is GRANTED with condition for a period of 30 days beginning June 30, 2010 and ending July 31, 2010.

Points of Communication:

SES-STA-20100616-00707 E KA258 Intelsat North America LLC
Special Temporary Authority
Grant of Authority Date Effective: 07/01/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 30 days beginning June 21, 2010 and ending July 21, 2010.

Points of Communication:

SES-STA-20100621-00725 E E881406 SHARED DATA NETWORKS, LLC
Special Temporary Authority
Grant of Authority Date Effective: 06/30/2010

Class of Station:

Extension of Special Temporary Authority is GRANTED with conditions for a period of 60 days beginning July 1, 2010 and ending September 1, 2010.

Points of Communication:

SES-STA-20100621-00729 E KA275 Intelsat North America LLC
Special Temporary Authority
Grant of Authority Date Effective: 06/30/2010

Class of Station:

Special temporary authority is GRANTED with condition for a period of 30 days.

Points of Communication:

SES-STA-20100623-00750 E E100080 DIRECTV Enterprises, LLC
Special Temporary Authority
Grant of Authority Date Effective: 06/30/2010

Class of Station:

Special temporary authority is GRANTED with condition for a period of 60 days beginning July 5, 2010 and ending September 5, 2010.

Points of Communication:

SES-STA-20100624-00784 E E980005 EchoStar Corporation
Special Temporary Authority
Grant of Authority Date Effective: 07/02/2010

Class of Station:

Special temporary authority is GRANTED with condition for a period of 60 days beginning July 10, 2010 and ending September 10, 2010.

Points of Communication:

SES-STA-20100624-00785 E E070014 EchoStar Corporation
Special Temporary Authority
Grant of Authority

Date Effective: 07/02/2010

Class of Station:

Special temporary authority is GRANTED with condition for a period of 60 days beginning July 10, 2010 and ending September 10, 2010.

Points of Communication:

SES-STA-20100628-00829 E E980136 Vizada, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 07/06/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 60 days beginning June 24, 2010 and ending August 24, 2010.

Points of Communication:

SES-STA-20100628-00830 E E980136 Vizada, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 07/06/2010

Class of Station:

Extension of special temporary authority is GRANTED with condition for an additional 60 days beginning June 24, 2010 and ending August 24, 2010.

Points of Communication:

SES-STA-20100628-00831 E E100082 EDUCATIONAL MEDIA FOUNDATION
Special Temporary Authority
Grant of Authority

Date Effective: 07/01/2010

Class of Station:

Special Temporary Authority is GRANTED for a period of 60 days beginning July 1, 2010 and ending September 1, 2010.

Points of Communication:

SES-T/C-20100609-00685 E E040390 Vizada, Inc.
Application for Consent to Transfer of Control
Grant of Authority

Date Effective: 07/06/2010

Current Licensee: Vizada, Inc.

FROM: MOBSAT GROUP HOLDINGS S.A.R.L.

TO: Chrysaor S.a r.l.

No. of Station(s) listed: 18

SES-T/C-20100610-00686 E E010263 Stratos Offshore Services Company
Application for Consent to Transfer of Control
Grant of Authority Date Effective: 06/29/2010

Current Licensee: Stratos Offshore Services Company
FROM: INMARSAT PLC
TO: Inmarsat plc

No. of Station(s) listed: 2

This grant is subject to and without prejudice to any action the Commission may take on the Stratos Offshore Services Company and Stratos Communications Inc. Petition for Declaratory Ruling pursuant to Section 310(b) of the Communications Act (ISP-PDR-20100628-00013).

SES-T/C-20100610-00687 E E950149 Stratos Offshore Services Company
Application for Consent to Transfer of Control
Grant of Authority Date Effective: 06/29/2010

Current Licensee: Stratos Offshore Services Company
FROM: INMARSAT PLC
TO: Inmarsat plc

No. of Station(s) listed: 2

This grant is subject to and without prejudice to any action the Commission may take on the Stratos Offshore Services Company and Stratos Communications Inc. Petition for Declaratory Ruling pursuant to Section 310(b) of the Communications Act (ISP-PDR-20100628-00013).

SES-T/C-20100610-00688 E E000180 Stratos Communications, Inc.
Application for Consent to Transfer of Control
Grant of Authority Date Effective: 06/29/2010

Current Licensee: Stratos Communications, Inc.
FROM: INMARSAT PLC
TO: Inmarsat plc

No. of Station(s) listed: 6

This grant is subject to and without prejudice to any action the Commission may take on the Stratos Offshore Services Company and Stratos Communications Inc. Petition for Declaratory Ruling pursuant to Section 310(b) of the Communications Act (ISP-PDR-20100628-00013).

SES-T/C-20100610-00692 E E070114 Stratos Offshore Services Company
Application for Consent to Transfer of Control
Grant of Authority Date Effective: 06/29/2010

Current Licensee: Stratos Offshore Services Company
FROM: INMARSAT PLC
TO: Inmarsat plc

No. of Station(s) listed: 1

SES-T/C-20100611-00694 E E000280 Vizada, Inc.
Application for Consent to Transfer of Control
Grant of Authority Date Effective: 07/06/2010

Current Licensee: Vizada, Inc.
FROM: MOBSAT GROUP HOLDINGS S.A.R.L.
TO: Chrysaor S.a r.l.

No. of Station(s) listed: 4

SURRENDER

SES-LIC-20010816-01553 E010222 PEORIA BROADCASTING SERVICES, INC.

SURRENDER

License has been surrendered per letter filed May 27, 2010.

SES-LIC-20020516-00853 E020144 PEORIA BROADCASTING SERVICES, INC.

License has been surrendered per letter filed May 27, 2010.

SES-LIC-20030115-00070 E030028 PEORIA BROADCASTING SERVICES, INC.

License has been surrendered per letter filed May 27, 2010.

SES-MOD-20030213-00186 E010310 Veritas DGC Land, Inc.

License surrendered by Licensee, see letter dated July 6, 2010.

SES-RWL-20000602-00891 E900215 Brazos Valley Public Broadcasting Foundation

License has been surrendered per letter filed June 10, 2010.

SES-RWL-20050921-01306 E950276 HARRIS CORPORATION

Licensee has surrendered earth station license per letter dated May 3, 2010.

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