



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-00587

Wednesday March 17, 2004

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-AMD-20031231-01874 E E030209 NORTHROP GRUMMAN DEFENSE MISSION SYSTEMS, INC.
Amendment
Grant of Authority Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

This Amendment filed is for a Name Change Only Northrop Grumman Defense Mission Systems, Inc. ('NGDMS') seeks amendment to the Form 312 application (File No. SES-LIC-20030919-01304) filed by Northrop Grumman Information Technology, Inc. ('NGIT') to change the applicant name from NGIT to NGDMS. As the result of a corporate reorganization, certain facilities and contracts will be transferred from NGIT to NGDMS on January 1, 2004. Both NGIT and NGDMS are subsidiaries of Northrop Grumman Corporation.

SITE ID: 1
LOCATION: SATCOM ENGINEERING LABORATORY AMSEL-RD-ST-TE-EL, MONMOUTH, FT. MONMOUTH, NJ
40 ° 19 ' 11.40 " N LAT. 74 ° 2 ' 7.20 " W LONG.

ANTENNA ID:	9C-BAND	9 meters	VERTEX COMMUNICATIONS	9 KPC
	5925.0000 - 6425.0000 MHz	35M5G1D	76.51 dBW	DIGITAL DATA CARRIER
	5925.0000 - 6425.0000 MHz	210KG1D	68.00 dBW	DIGITAL DATA CARRIER
	3700.0000 - 4200.0000 MHz	35M5G1D		DIGITAL DATA CARRIER
	3700.0000 - 4200.0000 MHz	210KG1D		DIGITAL DATA CARRIER
ANTENNA ID:	8.1KU	8.1 meters	VERTEX	8.1 KPC
	14000.0000 - 14500.0000 MHz	35M5G1D	82.23 dBW	DIGITAL DATA CARRIER

14000.0000 - 14500.0000 MHz	210KG1D	63.00 dBW	DIGITAL DATA CARRIER
11450.0000 - 12200.0000 MHz	35M5G1D		DIGITAL DATA CARRIER
11450.0000 - 12200.0000 MHz	210KG1D		DIGITAL DATA CARRIER
10950.0000 - 11200.0000 MHz	35M5G1D		DIGITAL DATA CARRIER
10950.0000 - 11200.0000 MHz	210KG1D		DIGITAL DATA CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

1 - INTELSAT AOR - (307.0 E.L.)

SES-AMD-20040123-00117 E E990088 Local Communications Network, Inc.

Amendment

Grant of Authority

Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: 105 EXECUTIVE DRIVE, SUITE 100-A, LOUDON, STERLING, VA

39 ° 59 ' 7.00 " N LAT.

77 ° 26 ' 45.00 " W LONG.

ANTENNA ID: 1 9.2 meters SATCOM 920C

5850.0000 - 6425.0000 MHz	1M23G7D	55.80 dBW	QPSK, 3/4 FEC, 1544 kbps, point to point data network
5850.0000 - 6425.0000 MHz	36M0G7W	76.00 dBW	QPSK, 1M to 4M point to point data network
5850.0000 - 6425.0000 MHz	64K0G7W	47.60 dBW	QPSK, 1M to 4M point to point data network
3625.0000 - 4200.0000 MHz	1M23G7D		QPSK, 3/4 FEC, 1544 kbps, point to point data network
3625.0000 - 4200.0000 MHz	36M0G7W		QPSK, 1M to 4M point to point data network
3625.0000 - 4200.0000 MHz	64K0G7W		QPSK, 1M to 4M point to point data network

Points of Communication:

1 - ALSAT - (ALSAT)

1 - COL515 - (37.7 W.L.)

1 - INTELSAT AOR - (335.5 E.L.)

1 - NSS-7 - (338.5 E.L.)

1 - PAS-1R - (45.0 W.L.)

1 - PAS-3R - (43.0 W.L.)

1 - TDRS-6 - (47.0 W.L.)

SES-ASG-20031114-01887 E E020084 UNITED UTILITIES, INC.

Application for Consent to Assignment

Grant of Authority

Date Effective: 03/12/2004

Current Licensee: UNITED UTILITIES, INC.

FROM: UNITED UTILITIES, INC.

TO: GCI Communication Corp.

No. of Station(s) listed: 7

SES-ASG-20031219-01888 E E990157 FREEDOM BROADCASTING OF MICHIGAN, INC.

Application for Consent to Assignment

Grant of Authority

Date Effective: 03/12/2004

Current Licensee: FREEDOM BROADCASTING OF MICHIGAN, INC.

FROM: FREEDOM BROADCASTING OF MICHIGAN, INC.

TO: FREEDOM BROADCASTING OF MICHIGAN LICENSEE, L.L.C.

No. of Station(s) listed: 1

SES-ASG-20031229-01889 E E000294 FREEDOM BROADCASTING OF TENNESSEE, INC.

Application for Consent to Assignment

Grant of Authority

Date Effective: 03/12/2004

Current Licensee: FREEDOM BROADCASTING OF TENNESSEE, INC.

FROM: FREEDOM BROADCASTING OF TENNESSEE, INC.

TO: FREEDOM BROADCASTING OF TENNESSEE LICENSEE, L.L.C.

No. of Station(s) listed: 2

SES-ASG-20040204-00183 E E900558 WMTW Broadcast Group, LLC

Application for Consent to Assignment

Grant of Authority

Date Effective: 03/12/2004

Current Licensee: WMTW Broadcast Group, LLC

FROM: WMTW BROADCAST GROUP,LLC

TO: Hearst-Argyle Properties, Inc.

No. of Station(s) listed: 1

SES-ASG-20040205-00185 E E960489 CHELSEY BROADCASTING COMPANY OF DULUTH, LLC
Application for Consent to Assignment
Grant of Authority Date Effective: 03/12/2004

Current Licensee: CHELSEY BROADCASTING COMPANY OF DULUTH, LLC
FROM: CHELSEY BROADCASTING COMPANY OF DULUTH, LLC
TO: NVG-Duluth II, LLC

No. of Station(s) listed: 1

SES-ASG-20040305-00330 E E930091 EAGLE COMMUNICATIONS, INC.
Application for Consent to Assignment
Grant of Authority Date Effective: 03/10/2004

Current Licensee: EAGLE COMMUNICATIONS, INC.
FROM: EAGLE COMMUNICATIONS, INC.
TO: BLUESTONE LICENSE HOLDINGS INC.

No. of Station(s) listed: 1

SES-ASG-20040305-00331 E E8042 APPALACHIAN BROADCASTING CORPORATION
Application for Consent to Assignment
Grant of Authority Date Effective: 03/16/2004

Current Licensee: APPALACHIAN BROADCASTING CORP.
FROM: APPALACHIAN BROADCASTING CORPORATION
TO: BLUESTONE LICENSE HOLDINGS INC.

No. of Station(s) listed: 1

SES-ASG-20040305-00332 E E900512 APPALACHIAN BROADCASTING CORPORATION
Application for Consent to Assignment
Grant of Authority Date Effective: 03/10/2004

Current Licensee: APPALACHIAN BROADCASTING CORPORATION
FROM: APPALACHIAN BROADCASTING CORPORATION
TO: BLUESTONE LICENSE HOLDINGS INC.

No. of Station(s) listed: 1

SES-ASG-20040305-00333 E E5945 ABILENE-SWEETWATER BROADCASTING COMPANY
Application for Consent to Assignment
Grant of Authority Date Effective: 03/16/2004

Current Licensee: ABILENE-SWEETWATER BROADCASTING COMPANY
FROM: ABILENE-SWEETWATER BROADCASTING COMPANY
TO: BLUESTONE LICENSE HOLDINGS INC.

No. of Station(s) listed: 1

SES-ASG-20040305-00334 E E920610 ABILENE-SWEETWATER BROADCASTING COMPANY

Application for Consent to Assignment

Grant of Authority

Date Effective: 03/10/2004

Current Licensee: ABILENE-SWEETWATER BROADCASTING COMPANY

FROM: ABILENE-SWEETWATER BROADCASTING COMPANY

TO: BLUESTONE LICENSE HOLDINGS INC.

No. of Station(s) listed: 1

SES-LIC-20020920-01681 P E020271 LORAL SPACECOM CORPORATION (DEBTOR-IN-POSSESSION)

Application for Authority

Returned No Action

Date Effective: 03/16/2004

Class of Station: Blanket Earth Stations

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

SITE ID: 1

LOCATION: 500 HILLS DRIVE, P.O. BOX 7018, SOMERSET, BEDMINSTER, NJ

ANTENNA ID: 3.7M	3.7 meters	PRODELIN	1374
3700.0000 - 4200.0000 MHz		36M0G7W	BPSK, QPSK or 8PSK signal carrying video audio and data. Service: Digital broadcast television relay (both Standard and High Definition)
3700.0000 - 4200.0000 MHz		36M0F8F	FM Television using either NTSC, PAL or SECAM analog video formats including audio and station identification sub-carriers Service: Analog broadcast television relay
ANTENNA ID: 3.6M	3.6 meters	ANDREW	ES36P
3700.0000 - 4200.0000 MHz		36M0G7W	BPSK, QPSK or 8PSK signal carrying video audio and data. Service: Digital broadcast television relay (both Standard and High Definition)
3700.0000 - 4200.0000 MHz		36M0F8F	FM Television using either NTSC, PAL or SECAM analog video formats including audio and station identification sub-carriers Service: Analog broadcast television relayFM Television using either NTSC, PAL or SECAM analog video formats including audio and sta
ANTENNA ID: 3.8M	3.8 meters	PATRIOT	3.8 METER SOLID
3700.0000 - 4200.0000 MHz		36M0G7W	BPSK, QPSK or 8PSK signal carrying video audio and data. Service: Digital broadcast television relay (both Standard and High Definition)

3700.0000 - 4200.0000 MHz	36M0F8F			FM Television using either NTSC, PAL or SECAM analog video formats including audio and station identification sub-carriers Service: Analog broadcast television relay
ANTENNA ID: 4.5MA	4.5 meters	ANDREW		ES45P
3700.0000 - 4200.0000 MHz	36M0G7W			BPSK, QPSK or 8PSK signal carrying video audio and data. Service: Digital broadcast television relay (both Standard and High Definition)
3700.0000 - 4200.0000 MHz	36M0F8F			FM Television using either NTSC, PAL or SECAM analog video formats including audio and station identification sub-carriers Service: Analog broadcast television relay
ANTENNA ID: 4.5MPAT	4.5 meters	PATRIOT		4.5 METER SOLID
3700.0000 - 4200.0000 MHz	36M0G7W			BPSK, QPSK or 8PSK signal carrying video audio and data. Service: Digital broadcast television relay (both Standard and High Definition)
3700.0000 - 4200.0000 MHz	36M0F8F			FM Television using either NTSC, PAL or SECAM analog video formats including audio and station identification sub-carriers Service: Analog broadcast television relay
ANTENNA ID: 4.5MPRO	4.5 meters	PRODELIN		1451
3700.0000 - 4200.0000 MHz	36M0G7W			BPSK, QPSK or 8PSK signal carrying video audio and data. Service: Digital broadcast television relay (both Standard and High Definition)
3700.0000 - 4200.0000 MHz	36M0F8F			FM Television using either NTSC, PAL or SECAM analog video formats including audio and station identification sub-carriers Service: Analog broadcast television relay

Points of Communication:

SES-LIC-20030919-01304	E	E030209	NORTHROP GRUMMAN DEFENSE MISSION SYSTEMS, INC.
Application for Authority			03/15/2004 - 03/15/2019
Grant of Authority			Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

This application is for a 9.0 Meter C-band and a 8.1 Meter Ku-band Earth Station operating in the Points of Communication for Intelsat 706 @ 307 deg. East Longitude (53 deg. West) Per E-mail request, also the Licensee Name on this Pending License has been changed only from the original filing of (Northrop Grumman Information Technology) to "Northrop Grumman Defense Mission Systems, Inc." per an Amendment SES-AMD-20031231-01874 filed on December 31, 2004.

SITE ID: 1

LOCATION: SATCOM ENGINEERING LABORATORY AMSEL-RD-ST-TE-EL, MONMOUTH, FT. MONMOUTH, NJ
40 ° 19 ' 11.40 " N LAT. 74 ° 2 ' 7.20 " W LONG.

ANTENNA ID:	9C-BAND	9 meters	VERTEX COMMUNICATIONS	9 KPC	
	3700.0000 - 4200.0000 MHz		210KG1D	DIGITAL DATA CARRIER	
	3700.0000 - 4200.0000 MHz		35M5G1D	DIGITAL DATA CARRIER	
	5925.0000 - 6425.0000 MHz		210KG1D	68.00 dBW	DIGITAL DATA CARRIER
	5925.0000 - 6425.0000 MHz		35M5G1D	76.51 dBW	DIGITAL DATA CARRIER
ANTENNA ID:	8.1KU	8.1 meters	VERTEX	8.1 KPK	
	14000.0000 - 14500.0000 MHz		35M5G1D	82.23 dBW	DIGITAL DATA CARRIER
	14000.0000 - 14500.0000 MHz		210KG1D	63.00 dBW	DIGITAL DATA CARRIER
	11450.0000 - 12200.0000 MHz		35M5G1D		DIGITAL DATA CARRIER
	10950.0000 - 11200.0000 MHz		35M5G1D		DIGITAL DATA CARRIER
	11450.0000 - 12200.0000 MHz		210KG1D		DIGITAL DATA CARRIER
	10950.0000 - 11200.0000 MHz		210KG1D		DIGITAL DATA CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

1 - INTELSAT AOR - (307.0 E.L.)

SES-LIC-20031028-01570 P E030277 U.S. Satellite Corp

Application for Authority

03/12/2004 - 03/12/2019

Grant of Authority

Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

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

The proposed use of the non-compliant 3.5 meter antenna is not supported in the application. Such use is therefore denied.

SITE ID: MURRAY
 LOCATION: 935 WEST BULLION STREET, SALT LAKE COUNTY, MURRAY, UT
 40 ° 38 ' 54.10 " N LAT. 111 ° 55 ' 3.10 " W LONG.

ANTENNA ID:	C92M2	9.2 meters	SATCOM TECHNOLOGIES	920CS
	5925.0000 - 6425.0000 MHz	30K0F8E	56.75 dBW	ANALOG NBFM
	5925.0000 - 6425.0000 MHz	360KF8E	67.50 dBW	ANALOG SCPC
	5925.0000 - 6425.0000 MHz	1M20G7D	75.07 dBW	DIGITAL VIDEO 2.9 & DIGITAL AUDIO/DATA
	5925.0000 - 6425.0000 MHz	1M23G7D	75.17 dBW	DIGITAL OUTROUTE DATA DIGITAL AUDIO/VOICE
	5925.0000 - 6425.0000 MHz	1M34G7D	75.55 dBW	DIGITAL 3.3 VIDEO & DIGITAL AUDIO/DATA
	5925.0000 - 6425.0000 MHz	18M0G7D	83.20 dBW	DIGITAL MCPC VIDEO & DIGITAL AUDIO/DATA
	5925.0000 - 6425.0000 MHz	36M0G7D	83.20 dBW	DIGITAL MCPC VIDEO & DIGITAL AUDIO/DATA
	5925.0000 - 6425.0000 MHz	36M0F8F	83.20 dBW	ANALOG VIDEO & AUDIO SUBCARRIERS
	3700.0000 - 4200.0000 MHz	30K0F8E		ANALOG NBFM
	3700.0000 - 4200.0000 MHz	360KF8E		ANALOG SCPC
	3700.0000 - 4200.0000 MHz	1M20G7D		DIGITAL VIDEO 2.9 & DIGITAL AUDIO/DATA
	3700.0000 - 4200.0000 MHz	1M23G7D		DIGITAL OUTROUTE DATA DIGITAL AUDIO/VOICE
	3700.0000 - 4200.0000 MHz	1M34G7D		DIGITAL 3.3 VIDEO & DIGITAL AUDIO/DATA
	3700.0000 - 4200.0000 MHz	2M98G7D		DIGITAL 6.6 VIDEO & DIGITAL AUDIO/DATA
	3700.0000 - 4200.0000 MHz	18M0G7D		DIGITAL MCPC VIDEO & DIGITAL AUDIO/DATA
	3700.0000 - 4200.0000 MHz	36M0G7D		DIGITAL MCPC VIDEO & DIGITAL AUDIO/DATA
	3700.0000 - 4200.0000 MHz	36M0F8F		ANALOG VIDEO & AUDIO SUBCARRIERS

Points of Communication:

MURRAY - ALSAT - (ALSAT)

MURRAY - INTELSAT 805 - (304.5 E.L.)

MURRAY - INTELSAT AOR - (307.0 E.L.)

MURRAY - INTELSAT AOR - (310.0 E.L.)

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

SES-LIC-20031117-01628 E E030305 Cable News Network LP, LLLP

Application for Authority

03/15/2004 - 03/15/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: Turner Teleport

LOCATION: 1050 Techwood Drive, Fulton, Atlanta, GA

33 ° 47 ' 2.00 " N LAT.

84 ° 23 ' 41.80 " W LONG.

ANTENNA ID: USATTP004 2.4 meters Vertex 2.4 DPUK

14000.0000 - 14500.0000 MHz 7M00G2D 57.55 dBW QPSK digital video

11700.0000 - 12200.0000 MHz 7M00G2D QPSK digital video

Points of Communication:

Turner Teleport - ALSAT - (ALSAT)

Turner Teleport - NSS-7 - (338.5 E.L.)

SES-LIC-20031203-01765 E E030336 LCN International, LLC

Application for Authority

03/11/2004 - 03/11/2019

Grant of Authority

Date Effective: 03/11/2004

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: 105 Executive Drive, USA, Sterling, VA

38 ° 59 ' 7.00 " N LAT.

77 ° 26 ' 45.00 " W LONG.

ANTENNA ID: 1 9.3 meters Andrew Corporation ESA9.3

3625.0000 - 4200.0000 MHz	64K0G7W		QPSK, 1 M to 4 M point to point data network
3625.0000 - 4200.0000 MHz	36M0G7W		QPSK, 1 M to 4 M point to point data network
5850.0000 - 6425.0000 MHz	64K0G7W	48.50 dBW	QPSK, 1 M to 4 M point to point data network
5850.0000 - 6425.0000 MHz	36M0G7W	76.90 dBW	QPSK, 1 M to 4 M point to point data network

Points of Communication:

1 - ALSAT - (ALSAT)

1 - NSS-7 - (338.5 E.L.)

SES-LIC-20040108-00022 E E040023 CENTRAL MUTUAL INSURANCE COMPANY
 Application for Authority 03/11/2004 - 03/11/2019
 Grant of Authority Date Effective: 03/11/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: 800 S. WASHINGTON STREET (CMI01), VAN WERT, VAN WERT, OH
 40 ° 52 ' 54.66 " N LAT. 84 ° 34 ' 56.16 " W LONG.

ANTENNA ID: E1	1.8 meters	PRODELIN	1184
11700.0000 - 12200.0000 MHz	1M56G7D		DIGITAL DATA
14000.0000 - 14500.0000 MHz	1M56G7D	54.75 dBW	DIGITAL DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20040112-00024 E E040025 CONTACTMEO COMMUNICATIONS, LLC
 Application for Authority 03/11/2004 - 03/11/2019
 Grant of Authority Date Effective: 03/11/2004

Class of Station: VSAT Network

Nature of Service: Domestic Fixed Satellite Service

SITE ID: HUB 1
 LOCATION: 2539 HIGHWAY 67 NORTH P.O. BOX 348, (8.1M.), DOUGLAS, SEDALIA, CO
 39 ° 22 ' 55.00 " N LAT. 105 ° 2 ' 50.00 " W LONG.

ANTENNA ID:	A1HUB	8.1 meters	VERTEX COMMUNICATIONS	8.1 KPK
	14000.0000 - 14500.0000 MHz	36M0G7W	78.30 dBW	DIGITAL DATA, VOICE, AND VIDEO
	14000.0000 - 14500.0000 MHz	34K2G7W-	55.10 dBW	DIGITAL DATA, VOICE, AND VIDEO
	11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL DATA, VOICE, AND VIDEO
	11700.0000 - 12200.0000 MHz	34K2G7W-		DIGITAL DATA, VOICE, AND VIDEO

SITE ID: HUB 2
LOCATION: 2539 HIGHWAY 67 NORTH P.O. BOX 348, (9.0M.), DOUGLAS, SEDALIA, CO
39 ° 22 ' 55.00 " N LAT. 105 ° 2 ' 50.00 " W LONG.

ANTENNA ID:	A2HUB	9 meters	VERTEX COMMUNICATIONS	9 KPK
	14000.0000 - 14500.0000 MHz	36M0G7W	78.30 dBW	DIGITAL DATA, VOICE, AND VIDEO
	14000.0000 - 14500.0000 MHz	34K2G7W-	55.30 dBW	DIGITAL DATA, VOICE, AND VIDEO
	11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL DATA, VOICE, AND VIDEO
	11700.0000 - 12200.0000 MHz	34K2G7W-		DIGITAL DATA, VOICE, AND VIDEO

SITE ID: REMOTE1
LOCATION: VSAT (4.6M.), 20 UNITS Various Locations Throughout, CONUS, US, AK, HI

ANTENNA ID:	A3REMT	4.6 meters	ANDREW CORPORATION	ESA4.6
	14000.0000 - 14500.0000 MHz	36M0G7W	67.00 dBW	DIGITAL DATA, VOICE, AND VIDEO
	14000.0000 - 14500.0000 MHz	34K2G7W-	50.30 dBW	DIGITAL DATA, VOICE, AND VIDEO
	11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL DATA, VOICE, AND VIDEO
	11700.0000 - 12200.0000 MHz	34K2G7W-		DIGITAL DATA, VOICE, AND VIDEO

SITE ID: REMOTE2
LOCATION: VSAT (3.8M.), 25 UNITS Various Locations Throughout, CONUS, US, AK, HI

ANTENNA ID: A4REMT	3.8 meters	VERTEX/RSI	DPK
11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	34K2G7W -	48.30 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	36M0G7W	62.00 dBW	DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	34K2G7W -		DIGITAL DATA, VOICE, AND VIDEO

SITE ID: REMOTE3
LOCATION: VSAT (2.4M.), 100 UNITS Various Locations Throughout, CONUS, US, AK, HI

ANTENNA ID: A5REMT	2.4 meters	PRODELIN CORPORATION	1251
11700.0000 - 12200.0000 MHz	34K2G7W -		DIGITAL DATA, VOICE, AND VIDEO
11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	34K2G7W -	44.50 dBW	DIGITAL DATA, VOICE, AND VIDEO
14000.0000 - 14500.0000 MHz	36M0G7W	58.20 dBW	DIGITAL DATA, VOICE, AND VIDEO

Points of Communication:

- HUB 1 - ALSAT - (ALSAT)
- HUB 2 - ALSAT - (ALSAT)
- REMOTE1 - ALSAT - (ALSAT)
- REMOTE2 - ALSAT - (ALSAT)
- REMOTE3 - ALSAT - (ALSAT)

SES-LIC-20040112-00029 E E040028 NORTHROP GRUMMAN SYSTEMS CORPORATION
Application for Authority 03/11/2004 - 03/11/2019
Grant of Authority Date Effective: 03/11/2004

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: (JOINT-STARS 1.8METER NO.3), VARIOUS

ANTENNA ID: 1	1.8 meters	VERTEX RSI	18QD
14000.0000 - 14500.0000 MHz	6M55G7W	49.50 dBW	8.192 MBPS, QPSK, FEC
11700.0000 - 12200.0000 MHz	6M55G7W		8.192 MBPS, QPSK, FEC

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20040112-00030 E E040029 NORTHROP GRUMMAN SYSTEMS CORPORATION
Application for Authority 03/11/2004 - 03/11/2019
Grant of Authority Date Effective: 03/11/2004

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: (JOINT-STARS 1.8METER NO.4), VARIOUS

ANTENNA ID: 1	1.8 meters	VERTEX RSI	18QD
14000.0000 - 14500.0000 MHz	6M55G7W	49.50 dBW	8.192 MBPS, QPSK, FEC
11700.0000 - 12200.0000 MHz	6M55G7W		8.192 MBPS, QPSK, FEC

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20040120-00065 E E040042 PACIFIC SATELLITE CONNECTION, INC.
Application for Authority 03/11/2004 - 03/11/2019
Grant of Authority Date Effective: 03/11/2004

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 1629 S. STREET, (KU-8) SACRAMENTO, CA 95814, VARIOUS, (SNV)
37 ° 25 ' 0.00 " N LAT. 121 ° 27 ' 0.00 " W LONG.

ANTENNA ID: KU-8	1.5 meters	VERTEX	SMK-LT
14000.0000 - 14500.0000 MHz	54K6G7W	42.65 dBW	DIGITAL DATA, QPSK, 8PSK

14000.0000 - 14500.0000 MHz	36M0F3F	72.00 dBW	FREQUENCY MODULATED TV
14000.0000 - 14500.0000 MHz	25M0F3F	72.00 dBW	FREQUENCY MODULATED TV
14000.0000 - 14500.0000 MHz	7M70G7F	64.74 dBW	DIGITAL TV
14000.0000 - 14500.0000 MHz	16M0G7F	67.92 dBW	DIGITAL TV
14000.0000 - 14500.0000 MHz	35M9G7W	71.32 dBW	DIGITAL DATA, QPSK, 8PSK
11700.0000 - 12200.0000 MHz	16M0G7F		DIGITAL TV
11700.0000 - 12200.0000 MHz	7M70G7F		DIGITAL TV
11700.0000 - 12200.0000 MHz	25M0F3F		FREQUENCY MODULATED TV
11700.0000 - 12200.0000 MHz	36M0F3F		FREQUENCY MODULATED TV
11700.0000 - 12200.0000 MHz	35M9G7W		DIGITAL DATA, QPSK, 8PSK
11700.0000 - 12200.0000 MHz	54K6G7W		DIGITAL DATA, QPSK, 8PSK

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20040129-00136 E E040058 CENTRAL WYOMING COLLEGE (d/b/a WYOMING PUBLIC TELEVISION, KCWC-)
 Application for Authority 03/15/2004 - 03/15/2019
 Grant of Authority Date Effective: 03/15/2004

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
 LOCATION: VARIOUS

ANTENNA ID: 1 2.4 meters Vertex/RSI 2.4 DMK

14000.0000 - 14500.0000 MHz 36M0G7W 74.30 dBW One 36 Mb MCPC digital carrier for voice/data.

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20040203-00173 E E040068 MCGRAW-HILL BROADCASTING COMPANY, INC. dba KMGH-TV
Application for Authority 03/12/2004 - 03/12/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: DENVER, CO 80203, VARIOUS

ANTENNA ID: 1	1.5 meters	VERTEX/RSI	1.5-SMK-LT
14000.0000 - 14500.0000 MHz	15M0G7W	67.66 dBW	DIGITAL MCPC QPSK CARRIER USED FOR VIDEO/VOICE/DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20031014-01498 P E000135 NETUNE COMMUNICATIONS, INC.
Application for Modification 05/18/2000 - 05/18/2010
Grant of Authority Date Effective: 03/10/2004

Class of Station: VSAT Network

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

"MOD" for the purpose of changing the address of the corporation of ownership and the location of the hub transmit/receive antenna.

SITE ID: REMOTE 1
LOCATION: (2.4M. VSAT), CONUS, (20 UNITS)

ANTENNA ID: RET 1A	2.4 meters	PRODELIN CORPORATION /2.44 x 2.67m	1244KU2.4
14000.0000 - 14500.0000 MHz	400KG1F	53.50 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	3M00G1F	62.30 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	4M40G1F	63.90 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	13M2G1F	68.70 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	29M0G1F	71.30 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA

11700.0000 - 12200.0000 MHz	400KG1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	3M00G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	4M40G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	13M2G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	29M0G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA

SITE ID: REMOTE 2
LOCATION: (1.8M. VSAT), CONUS, (50 UNITS)

ANTENNA ID: RET 2A 1.8 meters PRODELIN CORPORATION /1.8 x 1.95m 1184KU1.8

14000.0000 - 14500.0000 MHz	400KG1F	52.40 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	3M00G1F	61.20 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	4M40G1F	62.80 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	7M40G1F	65.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	13M2G1F	67.60 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	400KG1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA	
11700.0000 - 12200.0000 MHz	3M00G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA	
11700.0000 - 12200.0000 MHz	4M40G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA	
11700.0000 - 12200.0000 MHz	13M2G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA	
11700.0000 - 12200.0000 MHz	29M0G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA	

SITE ID: REMOTE 3
LOCATION: (1.2 M. VSAT), CONUS, (250 UNITS)

ANTENNA ID: RET 3A	1.2 meters	PRODLIN CORPORATION /1.1 x 1.25m	123KU1.2
14000.0000 - 14500.0000 MHz	200KG1F	46.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	400KG1F	49.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	800KG1F	52.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	1M60G1F	55.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	2M20G1F	56.50 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	200KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	400KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	800KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	1M60G1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	2M20G1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	13M2G1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	29M0G1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA

SITE ID: REMOTE 4
LOCATION: (0.95 M. VSAT), CONUS, (250 UNITS)

ANTENNA ID: RET 4A	0.95 meters	PRODELIN CORPORATION /0.67 x 1.34m	1951KU0.95
14000.0000 - 14500.0000 MHz	200KG1F	44.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA

14000.0000 - 14500.0000 MHz	400KG1F	47.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	800KG1F	50.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	1M60G1F	53.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	200KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	400KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	800KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	1M60G1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	13M2G1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA

SITE ID: HUB

LOCATION: 3453 S. LA CIENEGA BLVD. (3.7M.HUB), LOS ANGELES, LOS ANGELES, CA

34 ° 1 ' 35.60 " N LAT.

118 ° 22 ' 26.60 " W LONG.

ANTENNA ID: HUB-A 3.7 meters ANDREW CORPORATION ES37MPJK-1

14000.0000 - 14500.0000 MHz	3M00G1F	67.50 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	4M40G1F	69.10 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	13M2G1F	73.90 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	29M0G1F	77.30 dBW	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	200KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	400KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	800KG1F		PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA

11700.0000 - 12200.0000 MHz	1M60G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	2M20G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	3M00G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	4M40G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	7M40G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	13M2G1F	PSK, DIGITAL VIDEO W/ASSOC. DIGITAL AUDIO/DATA

Points of Communication:

HUB - ALSAT - (ALSAT)

REMOTE 1 - ALSAT - (ALSAT)

REMOTE 2 - ALSAT - (ALSAT)

REMOTE 3 - ALSAT - (ALSAT)

REMOTE 4 - ALSAT - (ALSAT)

SES-MOD-20031014-01831 P E000686 NETUNE COMMUNICATIONS, INC.

Application for Modification

01/12/2001 - 01/12/2011

Grant of Authority

Date Effective: 03/10/2004

Class of Station: Temporary Fixed Earth Station

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

"MOD" for the purpose of changing the address of the corporation of ownership.

SITE ID: 1

LOCATION: 3453 S. LA CIENEGA BLVD. (TRANSPORTABLE-1), CONUS

ANTENNA ID: TEMP-1 2.4 meters PRODELIN CORPORATION 1259KU2.4

14000.0000 - 14500.0000 MHz 5K12G7D 36.00 dBW PSK, DATA, FAX, AUDIO, VOICE

14000.0000 - 14500.0000 MHz 2M10G7D 62.20 dBW PSK, DIGITAL VIDEO W/ASSOC
DIGITAL AUDIO/DATA

14000.0000 - 14500.0000 MHz	2M50G7D	63.00 dBW	PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	5M00G7D	66.00 dBW	PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	13M2G7D	70.20 dBW	PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	15M8G7D	71.00 dBW	PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	18M3G7D	71.60 dBW	PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
14000.0000 - 14500.0000 MHz	36M6G7D	74.50 dBW	PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	5K12G7D		PSK, DATA, FAX, AUDIO, VOICE
11700.0000 - 12200.0000 MHz	2M10G7D		PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	2M50G7D		PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	5M00G7D		PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	13M2G7D		PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	15M8G7D		PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	18M3G7D		PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA
11700.0000 - 12200.0000 MHz	36M6G7D		PSK, DIGITAL VIDEO W/ASSOC DIGITAL AUDIO/DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20031020-01497 P E010280 PanAmSat Licensee Corp.

Application for Modification

01/08/2002 - 01/08/2012

Grant of Authority

Date Effective: 03/16/2004

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: PAS Ellenwood Engine
 LOCATION: 2857 Fork Creek Church Rd, Dekalb, Ellenwood, GA

ANTENNA ID: 1	1.9 meters	Advent	1900 MKIII
14000.0000 - 14500.0000 MHz	64K0G7W	44.00 dBW	Digital video and data
14000.0000 - 14500.0000 MHz	36M0G7W	70.00 dBW	Digital video and data
14000.0000 - 14500.0000 MHz	18M0F8F	67.00 dBW	Analog video
14000.0000 - 14500.0000 MHz	36M0F8F	70.00 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

ANTENNA ID: PASV12-1	1.2 meters	CHANNEL MASTER	TYPE 123
14000.0000 - 14500.0000 MHz	36M0G7W	68.50 dBW	Digital Data/Video
14000.0000 - 14500.0000 MHz	64K0G7W	41.00 dBW	Digital Data/Video
11700.0000 - 12200.0000 MHz	36M0G7W		Digital Data/Video
11700.0000 - 12200.0000 MHz	64K0G7W		Digital Data/Video

ANTENNA ID: PASV18-1	1.8 meters	CHANNEL MASTER	TYPE 184
14000.0000 - 14500.0000 MHz	36M0G7W	71.50 dBW	Digital Data/Video
14000.0000 - 14500.0000 MHz	64K0G7W	44.00 dBW	Digital Data/Video
11700.0000 - 12200.0000 MHz	36M0G7W		Digital Data/Video
11700.0000 - 12200.0000 MHz	64K0G7W		Digital Data/Video

ANTENNA ID: PASV24-1	2.4 meters	CHANNEL MASTER	TYPE 243
14000.0000 - 14500.0000 MHz	36M0G7W	74.50 dBW	Digital Data/Video
14000.0000 - 14500.0000 MHz	64K0G7W	47.00 dBW	Digital Data/Video
11700.0000 - 12200.0000 MHz	36M0G7W		Digital Data/Video

11700.0000 - 12200.0000 MHz	64K0G7W		Digital Data/Video
ANTENNA ID: PASV38-1	3.8 meters	PRODELIN	SERIES 1383
14000.0000 - 14500.0000 MHz	36M0G7W	78.50 dBW	Digital Data/Video
14000.0000 - 14500.0000 MHz	64K0G7W	51.00 dBW	Digital Data/Video
11700.0000 - 12200.0000 MHz	36M0G7W		Digital Data/Video
11700.0000 - 12200.0000 MHz	64K0G7W		Digital Data/Video
ANTENNA ID: PASV49-1	4.9 meters	ANDREW	4.9 M ESA
14000.0000 - 14500.0000 MHz	36M0G7W	80.50 dBW	Digital Data/Video
14000.0000 - 14500.0000 MHz	64K0G7W	53.00 dBW	Digital Data/Video
11700.0000 - 12200.0000 MHz	36M0G7W		Digital Data/Video
11700.0000 - 12200.0000 MHz	64K0G7W		Digital Data/Video
ANTENNA ID: PASF-12	1.2 meters	VERTEX-RSI	QD1139
14000.0000 - 14500.0000 MHz	36M0G7W	68.50 dBW	Digital Data/Video
14000.0000 - 14500.0000 MHz	64K0G7W	41.00 dBW	Digital Data/Video
11700.0000 - 12200.0000 MHz	36M0G7W		Digital Data/Video
11700.0000 - 12200.0000 MHz	64K0G7W		Digital Data/Video

Points of Communication:

PAS Ellenwood Engine - ALSAT - (ALSAT)

SES-MOD-20031119-01678	E	WB36	Telenor Satellite, Inc.	
Application for Modification				10/22/2001 - 10/22/2011
Grant of Authority				Date Effective: 03/16/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service, Domestic Mobile-Satellite Service, Fixed Satellite Service, Feeder Link for Mobile Satellite Service, International Fixed Satellite Service, International Mobile Satellite Service

SITE ID: SOUTHBURY
LOCATION: 2120 RIVER ROAD, NEW HAVEN, SOUTHBURY, CT
41 ° 27 ' 5.00 " N LAT. 73 ° 17 ' 19.00 " W LONG.

ANTENNA ID: 21-C-NORM 12.8 meters PHILCO FORD 12.8M

6454.4000 - 6456.6000 MHz	2M20G1D	80.70 dBW	BPSK SPREAD SPECTRUM DATA (NAVIGATION)
6424.0000 - 6454.0000 MHz	NON	62.00 dBW	UNMODULATED AFC PILOT (CLOSE LOOP)
6424.0000 - 6454.0000 MHz	34K0F3E	62.00 dBW	FM TELEPHONY COMPANDED AND UNCOMPANDED
6424.0000 - 6454.0000 MHz	2K40G7D-	51.10 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	132KG7D	62.00 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	2K40G1D-	51.10 dBW	BPSK, DATA
6424.0000 - 6454.0000 MHz	2M20G1D	62.00 dBW	BPSK, DATA
6424.0000 - 6454.0000 MHz	5K60G1W	54.80 dBW	QPSK, DATA/FAX
6424.0000 - 6454.0000 MHz	24K0G1W	61.10 dBW	QPSK, DATA/FAX
6424.0000 - 6454.0000 MHz	5K60G1E-	54.80 dBW	QPSK, TELEPHONY
6424.0000 - 6454.0000 MHz	24K0G1E	61.10 dBW	QPSK, TELEPHONY
6424.0000 - 6454.0000 MHz	40K0G1W	63.30 dBW	16QAM DIGITAL TELEPHONY
6424.0000 - 6454.0000 MHz	400KG1F	62.00 dBW	QPSK, DIGITAL VIDEO/DATA
6424.0000 - 6454.0000 MHz	27K0F3W	62.00 dBW	FM9 ANALOG BROADCAST CARRIER
5927.0000 - 5927.0000 MHz	NON	53.30 dBW	TT&C RANGING CARRIER
3947.0000 - 3953.0000 MHz	131KG2D		PCM/PSK/BI-PHASE TRACKING BEACON
3947.0000 - 3953.0000 MHz	131KG2D		PCM/PSK/BI-PHASE TRACKING BEACON
3700.0000 - 4200.0000 MHz	36M0F8W		TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
3700.0000 - 4200.0000 MHz	36M0F8W		TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
3600.0000 - 3629.0000 MHz	NON		UNMODULATED AFC PILOT (CLOSE LOOP)

3600.0000 - 3629.0000 MHz	34K0F3E			FM TELEPHONY COMPANDED AND UNCOMPANDED
3600.0000 - 3629.0000 MHz	2K40G7D-			BPSK, DATA/TDM
3600.0000 - 3629.0000 MHz	132KG7D			BPSK, DATA/TDM
3600.0000 - 3629.0000 MHz	2K40G1D-			BPSK, DATA
3600.0000 - 3629.0000 MHz	2M20G1D			BPSK, DATA
3600.0000 - 3629.0000 MHz	5K60G1W-			QPSK, DATA/FAX
3600.0000 - 3629.0000 MHz	24K0G1W			QPSK, DATA/FAX
3600.0000 - 3629.0000 MHz	5K60G1E-			QPSK, TELEPHONY
3600.0000 - 3629.0000 MHz	24K0G1E			QPSK, TELEPHONY
3600.0000 - 3629.0000 MHz	40K0G1W			16QAM, DIGITAL TELEPHONY
3600.0000 - 3629.0000 MHz	400KG1F			QPSK, DIGITAL VIDEO/DATA
3600.0000 - 3629.0000 MHz	2M20G1D			BPSK SPREAD SPECTRUM DATA - NAVIGATION CLOSE LOOP
ANTENNA ID: 21-C-TT&C	12.8 meters	PHILCO FORD		12.8M
5925.0000 - 6425.0000 MHz	36M0F8W	86.50 dBW		ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
ANTENNA ID: 21- L-BAND	12.8 meters	PHILCO FORD		12.8M
1626.5000 - 1660.5000 MHz	NON	40.50 dBW		UNMODULATED AFC PILOT (CLOSE LOOP)
1626.5000 - 1660.5000 MHz	34K0F3E	36.00 dBW		TEST FM, TELEPHONY COMPANDED OR UNCOMPANDED
1626.5000 - 1660.5000 MHz	2K40G7D-	36.00 dBW		TEST BPSK, DATA/TDM
1626.5000 - 1660.5000 MHz	132KG7D	36.00 dBW		TEST BPSK, DATA/TDM
1626.5000 - 1660.5000 MHz	2K40G1D-	36.00 dBW		TEST BPSK, DATA
1626.5000 - 1660.5000 MHz	2M20G1D	36.00 dBW		TEST BPSK, DATA
1626.5000 - 1660.5000 MHz	5K60G1W-	36.00 dBW		TEST QPSK, DATA/FAX
1626.5000 - 1660.5000 MHz	2K40G1W	36.00 dBW		TEST QPSK, DATA/FAX

1626.5000 - 1660.5000 MHz	5K60G1E-	36.00 dBW	TEST QPSK, TELEPHONY
1626.5000 - 1660.5000 MHz	24K0G1E	36.00 dBW	TEST QPSK, TELEPHONY
1626.5000 - 1660.5000 MHz	40K0G1W	48.20 dBW	TEST 16QAM DIGITAL TELEPHONY
1626.5000 - 1660.5000 MHz	400KG1F	36.00 dBW	TEST QPSK DIGITAL VIDEO/DATA
1574.4000 - 1576.6000 MHz	2M20G1D		TEST BPSK SPREAD SPECTRUM DATA - CLOSE LOOP
1525.0000 - 1559.0000 MHz	NON		UNMODULATED AFC PILOT (CLOSE LOOP)
1525.0000 - 1559.0000 MHz	34K0F3E		TEST FM, TELEPHONY COMPANDED OR UNCOMPANDED
1525.0000 - 1559.0000 MHz	2K40G7D-		TEST BPSK, DATA/TDM
1525.0000 - 1559.0000 MHz	132KG7D		TEST BPSK, DATA/TDM
1525.0000 - 1559.0000 MHz	2K40G1D-		TEST BPSK, DATA
1525.0000 - 1559.0000 MHz	2M20G1D		TEST BPSK, DATA
1525.0000 - 1559.0000 MHz	5K60G1W-		TEST QPSK, DATA/FAX
1525.0000 - 1559.0000 MHz	2K40G1W		TEST QPSK, DATA/FAX
1525.0000 - 1559.0000 MHz	5K60G1E-		TEST QPSK, TELEPHONY
1525.0000 - 1559.0000 MHz	24K0G1E		TEST QPSK, TELEPHONY
1525.0000 - 1559.0000 MHz	40K0G1W		TEST 16QAM DIGITAL TELEPHONY
1525.0000 - 1559.0000 MHz	400KG1F		TEST QPSK DIGITAL VIDEO/DATA
1525.0000 - 1559.0000 MHz	2M20G1D		TEST BPSK SPREAD SPECTRUM DATA - CLOSE LOOP
ANTENNA ID: 23A-C-NOR	10.4 meters	PHILCO FORD	10.4M
6454.4000 - 6456.6000 MHz	2M20G1D	73.50 dBW	BPSK SPREAD SPECTRUM DATA (NAVIGATION)
6424.0000 - 6454.0000 MHz	NON	59.50 dBW	UNMODULATED AFC PILOT

6424.0000 - 6454.0000 MHz	34K0F3E	59.50 dBW	FM TELEPHONY COMPANDED AND UNCOMPANDED
6424.0000 - 6454.0000 MHz	2K40G7D-	48.60 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	132KG7D	59.50 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	2K40G1D-	48.60 dBW	BPSK, DATA
6424.0000 - 6454.0000 MHz	2M20G1D	71.70 dBW	BPSK, DATA
6424.0000 - 6454.0000 MHz	5K60G1W-	52.30 dBW	QPSK, DATA/FAX
6424.0000 - 6454.0000 MHz	24K0G1W	58.60 dBW	QPSK, DATA/FAX
6424.0000 - 6454.0000 MHz	5K60G1E-	52.30 dBW	QPSK, TELEPHONY
6424.0000 - 6454.0000 MHz	24K0G1E	58.60 dBW	QPSK, TELEPHONY
6424.0000 - 6454.0000 MHz	40K0G1W	60.80 dBW	16QAM DIGITAL TELEPHONY
6424.0000 - 6454.0000 MHz	400KG1F	59.50 dBW	QPSK, DIGITAL VIDEO/DATA
6424.0000 - 6454.0000 MHz	27K0F3W	59.50 dBW	FM9 ANALOG BROADCAST CARRIER
5927.0000 - 5927.0000 MHz	NON	50.80 dBW	TT&C RANGING CARRIER
3947.0000 - 3953.0000 MHz	131KG2D		PCM/PSK/BI-PHASE TRACKING BEACON
3700.0000 - 4200.0000 MHz	36M0F8W		TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
3600.0000 - 3629.0000 MHz	NON		UNMODULATED AFC PILOT
3600.0000 - 3629.0000 MHz	34K0F3E		FM TELEPHONY COMPANDED ANAD UNCOMPANDED
3600.0000 - 3629.0000 MHz	2K40G7D-		BPSK, DATA/TDM
3600.0000 - 3629.0000 MHz	132KG7D		BPSK, DATA/TDM
3600.0000 - 3629.0000 MHz	2K40G1D-		BPSK, DATA
3600.0000 - 3629.0000 MHz	2M20G1D		BPSK, DATA
3600.0000 - 3629.0000 MHz	5K60G1W-		QPSK, DATA/FAX

3600.0000 - 3629.0000 MHz	24K0G1W		QPSK, DATA/FAX
3600.0000 - 3629.0000 MHz	5K60G1E-		QPSK, TELEPHONY
3600.0000 - 3629.0000 MHz	24K0G1E		QPSK, TELEPHONY
3600.0000 - 3629.0000 MHz	40K0G1W		16QAM DIGITAL TELEPHONY
3600.0000 - 3629.0000 MHz	400KG1F		QPSK, DIGITAL VIDEO/DATA
3600.0000 - 3629.0000 MHz	2M20G1D		BPSK SPREAD SPECTRUM DATA (NAVIGATION)
ANTENNA ID: 23A-C-TT&C	10.4 meters	PHILCO FORD	104.M
5925.0000 - 6425.0000 MHz	36M0F8W	86.50 dBW	TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
ANTENNA ID: 23B-L-BAND	1.8 meters	TRUE FOCUS	1.8M
1626.5000 - 1660.5000 MHz	NON	27.20 dBW	UNMODULATED AFC PILOT (CLOSE LOOP)
1574.4000 - 1576.6000 MHz	2M20G1D		TEST BPSK SPREAD SPECTRUM DATA - CLOSE LOOP
1525.0000 - 1559.0000 MHz	NON		UNMODULATED AFC PILOT
1525.0000 - 1559.0000 MHz	34K0F3E		TEST FM TELEPHONY COMPANDED AND UNCOMPANDED
1525.0000 - 1559.0000 MHz	2K40G7D-		TEST BPSK, DATA/TDM
1525.0000 - 1559.0000 MHz	132KG7D		TEST BPSK, DATA/TDM
1525.0000 - 1559.0000 MHz	2K40G1D-		TEST BPSK, DATA
1525.0000 - 1559.0000 MHz	2M20G1D		TEST BPSK, DATA
1525.0000 - 1559.0000 MHz	5K60G1W-		TEST QPSK, DATA/FAX
1525.0000 - 1559.0000 MHz	24K0G1W		TEST QPSK, DATA/FAX
1525.0000 - 1559.0000 MHz	5K60G1E-		TEST QPSK, TELEPHONY
1525.0000 - 1559.0000 MHz	24K0G1E		TEST QPSK, TELEPHONY
1525.0000 - 1559.0000 MHz	40K0G1W		TEST 16QAM DIGITAL TELEPHONY

1525.0000 - 1559.0000 MHz	400KG1F		TEST QPSK, DIGITAL VIDEO/DATA
1525.0000 - 1559.0000 MHz	2M20G1D		TEST BPSK SPREAD SPECTRUM DATA - CLOSE LOOP
ANTENNA ID: EX-KU	9 meters	VERTEX	9KPK
13750.0000 - 14500.0000 MHz	36M0G7W	80.41 dBW	QPSK, DIGITAL TELEPHONY
11450.0000 - 11700.0000 MHz	36M0G7W		QPSK, DIGITAL TELEPHONY

Points of Communication:

SOUTHBURY - ALSAT - (ALSAT)
 SOUTHBURY - AMOS-2 - (4.0 W.L.)
 SOUTHBURY - INMARSAT Ltd-3 - (15.5 W.L.)
 SOUTHBURY - INMARSAT Ltd-3 - (54 W.L.)
 SOUTHBURY - INMARSAT-2 AOR-WEST - (98 W.L.)
 SOUTHBURY - MARISAT-F2 - (33.9 W.L.)

SES-MOD-20031202-01757 E E990088 Local Communications Network, Inc.
 Application for Modification 06/17/1999 - 06/17/2009
 Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

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

SITE ID: 1
 LOCATION: 105 EXECUTIVE DRIVE, SUITE 100-A, LOUDON, STERLING, VA
 39 ° 59 ' 7.00 " N LAT. 77 ° 26 ' 45.00 " W LONG.

ANTENNA ID: 1	9.2 meters	SATCOM	920C
5925.0000 - 6425.0000 MHz	1M23G7D	55.80 dBW	QPSK, 3/4 FEC, 1544 kbps, point to point data network
3700.0000 - 4200.0000 MHz	1M23G7D		QPSK, 3/4 FEC, 1544 kbps, point to point data network
5925.0000 - 6425.0000 MHz	36M0G7W	58.50 dBW	QPSK, 1M to 4M point to point data network
5925.0000 - 6425.0000 MHz	64K0G7W	67.80 dBW	QPSK, 1M to 4M point to point data network

3700.0000 - 4200.0000 MHz	36M0G7W	QPSK, 1M to 4M point to point data network
3700.0000 - 4200.0000 MHz	64K0G7W	QPSK, 1M to 4M point to point data network

Points of Communication:

- 1 - ALSAT - (ALSAT)
- 1 - COL515 - (37.7 W.L.)
- 1 - INTELSAT AOR - (335.5 E.L.)
- 1 - NSS-7 - (338.5 E.L.)
- 1 - PAS-1R - (45.0 W.L.)
- 1 - PAS-3R - (43.0 W.L.)
- 1 - TDRS-6 - (47.0 W.L.)

SES-MOD-20040305-00321 E E990518 Atlantic Telecommunications Services Corp.
 Application for Modification 01/21/2000 - 01/21/2010
 Grant of Authority Date Effective: 03/10/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

"MOD" to change remote control point.

SITE ID: 1
 LOCATION: SR99, 4240 N. MICHIGAN ROAD, EATON, DIMONDALE, MI
 42 ° 37 ' 30.10 " N LAT. 84 ° 37 ' 29.90 " W LONG.

ANTENNA ID: 1	4.1 meters	COMTECH	OFFSAT
5925.0000 - 6425.0000 MHz	8M60G1F	72.40 dBW	COMPRESSED DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	8M60G1F		COMPRESSED DIGITAL VIDEO

Points of Communication:

- 1 - ALSAT - (ALSAT)

SES-REG-20040115-00053 E E040037 MMT LICENSE LLC
 Registration 01/15/2004 - 01/15/2019
 Grant of Authority Date Effective: 03/11/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 2211 LOOP 323 ESE, SMITH, TYLER, TX
32 ° 18 ' 39.80 " N LAT.

95 ° 16 ' 21.30 " W LONG.

ANTENNA ID: 5M. 5 meters ATCI

5M.

3700.0000 - 4200.0000 MHz 36M0F3F

STANDARD VIDEO WITH
ASSOCIATED AUDIO
SUBCARRIERS

3700.0000 - 4200.0000 MHz 36M0G7W

DIGITAL TRAFFIC, VARIOUS
CARRIERS AND INFORMATION

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040116-00054 E E040038

BOULDER COMMUNITY BROADCAST ASSOCIATION, INC.

Registration

01/16/2004 - 01/16/2019

Grant of Authority

Date Effective: 03/11/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 4700 WALNUT STREET (KGNU-FM), BOULDER, BOULDER, CO
40 ° 1 ' 8.00 " N LAT.

105 ° 14 ' 23.00 " W LONG.

ANTENNA ID: 3.8 M. 3.8 meters COMTECH ANTENNA SYSTEMS 3.8 METER PF

3700.0000 - 4200.0000 MHz 10M3G7W

DIGITAL BROADCAST AUDIO
CARRIER

3700.0000 - 4200.0000 MHz 30K0F1D

DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040123-00125 E E040050

UNIVERSITY OF NORTHERN IOWA

Registration

01/23/2004 - 01/23/2019

Grant of Authority

Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 321 COMMUNICATION ARTS CENTER (KUNI-FM) UNI CAMPUS, BLACK HAWK, CEDAR FALLS, IA
42 ° 30 ' 52.20 " N LAT. 92 ° 27 ' 51.70 " W LONG.

ANTENNA ID: 1 3.7 meters PRODELIN CORPORATION 136-750
3700.0000 - 4200.0000 MHz 30K0F1D 0.00 dBW DIGITAL BROADCAST AUDIO CARRIER
3700.0000 - 4200.0000 MHz 10M3G7W 0.00 dBW DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040123-00126 E E040051 CRESTED BUTTE MOUNTAIN EDUCATIONAL RADIO, INC.
Registration 01/23/2004 - 01/23/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 508 MAROON AVENUE (KBUT-FM), GUNNISON, CRESTED BUTTE, CO
38 ° 52 ' 10.00 " N LAT. 106 ° 58 ' 47.00 " W LONG.

ANTENNA ID: 1 3.8 meters COMTECH ANTENNA SYSTEMS 3.8 METER PF
3700.0000 - 4200.0000 MHz 30K0F1D 0.00 dBW DIGITAL BROADCAST AUDIO CARRIER
3700.0000 - 4200.0000 MHz 10M3G7W 0.00 dBW DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040123-00127 E E040052 ARIZONA BOARD OF REGENTS FOR BENEFIT OF UNIVERSITY OF ARIZONA
Registration 01/23/2004 - 01/23/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 1423 E. UNIVERSITY BLVD (KUAZ-FM), PIMA, TUCSON, AZ
32 ° 13 ' 58.00 " N LAT. 110 ° 57 ' 0.00 " W LONG.

ANTENNA ID: 1	3.8 meters	COMTECH ANTENNA SYSTEMS	3.8
3700.0000 - 4200.0000 MHz	30K0F1D	0.00 dBW	DIGITAL BROADCAST AUDIO CARRIER
3700.0000 - 4200.0000 MHz	10M3G7W	0.00 dBW	DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040123-00128	E	E040053	BOARD OF TRUSTEES FOR FORT LEWIS COLLEGE
Registration			01/23/2004 - 01/23/2019
Grant of Authority			Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 1000 RIM DRIVE (KDUR-FM), LA PLATA, DURANGO, CO
37 ° 16 ' 24.20 " N LAT. 107 ° 51 ' 56.80 " W LONG.

ANTENNA ID: 1	3.8 meters	COMTECH ANTENNA SYSTEMS	3.8 METER PF
3700.0000 - 4200.0000 MHz	30K0F1D		DIGITAL AUDIO CARRIER
3700.0000 - 4200.0000 MHz	10M3G7W		DIGITAL BROADCAST AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040126-00115	E	E040045	MOREHEAD STATE UNIVERSITY
Registration			01/26/2004 - 01/26/2019
Grant of Authority			Date Effective: 03/11/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 132 BRECKINRIDGE HALL (WMKY), ROWAN, MOREHEAD, KY
38 ° 11 ' 19.30 " N LAT. 83 ° 26 ' 0.00 " W LONG.

ANTENNA ID: 3.7 M.	3.7 meters	PRODELIN CORPORATION	136-750
3700.0000 - 4200.0000 MHz	30K0F1D		DIGITAL AUDIO CARRIER

3700.0000 - 4200.0000 MHz

10M3G7W

DIGITAL BROADCAST AUDIO
CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040128-00134 E E040056 WESTERN KENTUCKY UNIVERSITY

Registration

01/28/2004 - 01/28/2019

Grant of Authority

Date Effective: 03/11/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: WKYU-FM

LOCATION: AC 153, 1 BIG RED WAY 242 ACADEMIC COMPLEX, WARREN, BOWLING GREEN, KY

36 ° 59 ' 0.00 " N LAT.

86 ° 27 ' 24.00 " W LONG.

ANTENNA ID: 3.8 M.

3.8 meters

COMTECH ANTENNA SYSTEMS 3.8 METER PF

3700.0000 - 4200.0000 MHz

30K0F1D

DIGITAL AUDIO CARRIER

3700.0000 - 4200.0000 MHz

10M3G7W

DIGITAL BROADCAST AUDIO
CARRIER

Points of Communication:

WKYU-FM - ALSAT - (ALSAT)

SES-REG-20040128-00135 E E040057 BETHEL BROADCASTING INC.

Registration

01/28/2004 - 01/28/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: PO BOX 468, 640 RADIO STREET(KYUK-FM), BETHEL, BETHEL, AK

60 ° 47 ' 31.00 " N LAT.

161 ° 46 ' 14.00 " W LONG.

ANTENNA ID: 1

4.5 meters

SCIENTIFIC-ATLANTA, INC. 14.5M PRIME FOCUS

3700.0000 - 4200.0000 MHz

30K0F1D

0.00 dBW

DIGITAL BROADCAST AUDIO
CARRIER

3700.0000 - 4200.0000 MHz

10M3G7W

0.00 dBW

DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040128-00203 P E040077 MOUNTAIN BROADCASTING CORPORATION
Registration 01/28/2004 - 01/28/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 99 CLINTON ROAD, ESSEX, WEST CALDWELL, NJ
40 ° 51 ' 8.30 " N LAT. 74 ° 17 ' 57.40 " W LONG.

ANTENNA ID: 1	3.8 meters	PATRIOT ANTENNA SYSTEMS	PRT-380
3700.0000 - 4200.0000 MHz	36M0F8F		ANALOG VIDEO
3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040130-00148 E E040061 TRI-STATE PUBLIC TELEPLEX, INC.
Registration 01/30/2004 - 01/30/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 405 CARPENTER STREET (WNIN-FM), VANDERBURGH, EVANSVILLE, IN
37 ° 58 ' 29.00 " N LAT. 87 ° 33 ' 20.00 " W LONG.

ANTENNA ID: 1	3.8 meters		3.8 METER PF
3700.0000 - 4200.0000 MHz	30K0F1D		DIGITAL AUDIO CARRIER
3700.0000 - 4200.0000 MHz	10M3G7W		DIGITAL BROADCAST AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040130-00151 E E040062 UT at CHATTANOOGA

Registration

01/30/2004 - 01/30/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 615 McCALLIE AVENUE (WUTC) DEPT. 1151, HAMILTON, CHATTANOOGA, TN
35 ° 2 ' 44.50 " N LAT. 85 ° 17 ' 55.70 " W LONG.

ANTENNA ID: 1 3.8 meters COMTECH ANTENNA SYSTEMS 3.8 METER PF

3700.0000 - 4200.0000 MHz 10M3G7W DIGITAL AUDIO CARRIER

3700.0000 - 4200.0000 MHz 30K0F1D DIGITAL AUDIO CARRIER

Points of Communication:

SES-REG-20040131-00152 E E040063 WSIE-FM

Registration

01/31/2004 - 01/31/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: SIUE CIRCLE DRIVE (WSIE) PARKING LOT E, MADISON, EDWARDSVILLE, IL
38 ° 47 ' 38.00 " N LAT. 90 ° 0 ' 2.00 " W LONG.

ANTENNA ID: 1 3.8 meters COMTECH ANTENNA SYSTEMS 3.8 METER PF

3700.0000 - 4200.0000 MHz 30K0F1D DIGITAL AUDIO CARRIER

3700.0000 - 4200.0000 MHz 10M3G7W DIGITAL AUDIO CARRIER

Points of Communication:

SES-REG-20040201-00153 E E040064 KSER FOUNDATION

Registration

02/01/2004 - 02/01/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 2623 WETMORE (KSER), SNOHOMISH, EVERETT, WA
47 ° 58 ' 56.50 " N LAT. 122 ° 12 ' 24.90 " W LONG.

ANTENNA ID: 1 3.7 meters PRODELIN CORPORATION 136-750
3700.0000 - 4200.0000 MHz 30K0F1D DIGITAL AUDIO CARRIER
3700.0000 - 4200.0000 MHz 10M3G7W DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040202-00157 E E040065 WMPG
Registration 02/02/2004 - 02/02/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 96 FALMOUTH STREET(WMPG-FM), CUMBERLAND2, PORTLAND, ME
43 ° 39 ' 42.90 " N LAT. 70 ° 16 ' 33.90 " W LONG.

ANTENNA ID: 1 3.7 meters PRODELIN CORPORATION 136-750
3700.0000 - 4200.0000 MHz 10M3G7W DIGITAL BROADCAST AUDIO CARRIER
3700.0000 - 4200.0000 MHz 30K0F1D DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040204-00169 E E040066 WESTERN NEW YORK PUBLIC BROADCASTING ASSOC.
Registration 02/04/2004 - 02/04/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 140 LOWER TERRACE (WNED-FM), ERIE, BUFFALO, NY
42 ° 52 ' 54.00 " N LAT. 78 ° 52 ' 46.00 " W LONG.

ANTENNA ID: 1 3.8 meters COMTECH ANTENNA SYSTEMS 3.8 M

3700.0000 - 4200.0000 MHz	10M3G7W	DIGITAL BROADCAST AUDIO CARRIER
3700.0000 - 4200.0000 MHz	30K0F1D	DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040204-00170 E E040067 ELKHART COMMUNITY SCHOOLS CORP.
Registration 02/04/2004 - 02/04/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 2424 CALIFORNIA ROAD (WVPE-FM), ELKHART, ELKHART, IN
41 ° 41 ' 45.30 " N LAT. 86 ° 0 ' 33.20 " W LONG.

ANTENNA ID: 1 3.8 meters COMTECH ANTENNA SYSTEMS 3.8 METER PF

3700.0000 - 4200.0000 MHz	30K0F1D	DIGITAL AUDIO CARRIER
3700.0000 - 4200.0000 MHz	10M3G7W	DIGITAL BROADCAST AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040206-00192 E E040073 MONTANA STATE UNIVERSITY-BILLINGS
Registration 02/06/2004 - 02/06/2019
Grant of Authority Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 1500 UNIVERSITY DRIVE (KEMC-FM), YELLOWSTONE, BILLINGS, MT
45 ° 47 ' 50.00 " N LAT. 108 ° 31 ' 35.00 " W LONG.

ANTENNA ID: 1 3.8 meters COMTECH ANTENNA SYSTEMS 3.8 METER PF

3700.0000 - 4200.0000 MHz	30K0F1D	DIGITAL AUDIO CARRIER
3700.0000 - 4200.0000 MHz	10M3G7W	DIGITAL BROADCAST AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20040206-00193 E E040074 KUTE, INC.

Registration

02/06/2004 - 02/06/2019

Grant of Authority

Date Effective: 03/12/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 123 CAPOTE DR. (KSUT-FM), LA PLATA, IGNACIO, CO

37 ° 7 ' 45.20 " N LAT.

107 ° 38 ' 9.80 " W LONG.

ANTENNA ID: 1 3.8 meters COMTECH ANTENNA SYSTEMS 3.8 METER PF

3700.0000 - 4200.0000 MHz 30K0F1D 0.00 dBW DIGITAL BROADCAST AUDIO CARRIER

3700.0000 - 4200.0000 MHz 10M3G7W 0.00 dBW DIGITAL AUDIO CARRIER

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20040305-00317 E KA407 AMERICASKY CORPORATION

Renewal

02/08/2004 - 02/08/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: 4045 N.W. 97TH AVENUE, DADE, MIAMI, FL

25 ° 48 ' 35.00 " N LAT.

80 ° 21 ' 10.00 " W LONG.

ANTENNA ID: 1 15.5 meters DAI 1550C

6140.1000 - 6425.0000 MHz 3M17G7D 80.70 dBW INTL

6021.5000 - 6106.1000 MHz 3M17G7D 80.70 dBW INTL

5925.0000 - 6425.0000 MHz 3M17G7D 80.70 dBW DOM

5850.0000 - 6425.0000 MHz 3M17G7D 80.70 dBW INTL

5850.0000 - 5987.5000 MHz 3M17G7D 80.70 dBW INTL

3700.0000 - 4200.0000 MHz	3M17G7D	DOM
3625.0000 - 4200.0000 MHz	3M17G7D	INTL

Points of Communication:

- 1 - ALSAT - (ALSAT)
- 1 - ANIK -
- 1 - INTAOR - (AOR)
- 1 - MOR/SOL -
- 1 - PASAOR -
- 1 - TDRS-41 - (41.0 W.L.)

SES-RWL-20040306-00328 E E940261	CONUS COMMUNICATIONS COMPANY LIMITED PARTNERSHIP
Renewal	04/04/2004 - 04/04/2019
Grant of Authority	Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 3415 UNIVERSITY AVENUE, RAMSEY, ST. PAUL, MN
44 ° 58 ' 9.00 " N LAT. 93 ° 12 ' 24.00 " W LONG.

ANTENNA ID: 1 5.5 meters COMTECH ANT. CORP.

3700.0000 - 4200.0000 MHz 25M0F8W

Points of Communication:

- 1 - ALSAT - (ALSAT)

SES-RWL-20040311-00358 E E7001	COXCOM, INC.
Renewal	04/13/2004 - 04/13/2019
Grant of Authority	Date Effective: 03/16/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: COCHISE, SIERRA VISTA, AZ
31 ° 33 ' 54.00 " N LAT. 110 ° 18 ' 19.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS 5241

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20040311-00360 E E7035 COXCOM, INC.

Renewal

04/13/2004 - 04/13/2019

Grant of Authority

Date Effective: 03/16/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: COCHISE, SIERRA VISTA, AZ

31 ° 33 ' 54.00 " N LAT.

110 ° 18 ' 19.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS 5241

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20040311-00361 E E7070 COXCOM, INC.

Renewal

04/27/2004 - 04/27/2019

Grant of Authority

Date Effective: 03/16/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: COCHISE, DOUGLAS, AZ

31 ° 20 ' 45.00 " N LAT.

109 ° 33 ' 7.00 " W LONG.

ANTENNA ID: 1 5 meters MICRODYNE SATRO-5

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20040312-00366 E E6995 COMCAST CABLEVISION OF MARYLAND LIMITED PARTNERSHIP

Renewal

04/06/2004 - 04/06/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: BALTIMORE, OWINGS MILLS, MD

39 ° 24 ' 37.00 " N LAT.

76 ° 46 ' 14.00 " W LONG.

ANTENNA ID: 1

5 meters

PRODELIN INC.

138-756

3700.0000 - 4200.0000 MHz

36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20040312-00367 E E7005

COMCAST CABLEVISION OF MARYLAND LIMITED PARTNERSHIP

Renewal

04/06/2004 - 04/06/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: BALTIMORE, BALTIMORE, MD

39 ° 18 ' 56.00 " N LAT.

76 ° 27 ' 36.00 " W LONG.

ANTENNA ID: 1

5 meters

PRODELIN, INC.

138-756

3700.0000 - 4200.0000 MHz

36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20040312-00368 E E7006

COMCAST CABLEVISION OF MARYLAND LIMITED PARTNERSHIP

Renewal

04/06/2004 - 04/06/2019

Grant of Authority

Date Effective: 03/15/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: BALTIMORE, TOWSON, MD

39 ° 24 ' 18.00 " N LAT.

76 ° 36 ' 13.00 " W LONG.

ANTENNA ID: 1

5 meters

PRODELIN INC.

138-756

3700.0000 - 4200.0000 MHz

36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

Dismissal

SES-STA-20031119-01679 WB36 Telenor Satellite, Inc.

This STA is dismissed, due to the modification application has been granted on March 16, 2004, therefore the STA is moot.

INFORMATIVE

SES-MOD-20030910-01244 E4132 PanAmSat Licensee Corp.

Application was withdrawn by applicant on March 11, 2004.

SURRENDER

SES-LIC-20020301-00261 E020043 WISDOM MEDIA GROUP, INC.

Wisdom Media Group, Inc. hereby submits notification that the above referenced earth station facility no longer exists, and has been dismantled and removed from the site.

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