



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-00667

Wednesday December 8, 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-ASG-20041110-01731 P KW40 CABLE & COMMUNICATIONS CORPORATION

Application for Consent to Assignment

Consummated

Date Effective: 12/01/2004

Current Licensee: MID-RIVERS TELEPHONE COOPERATIVE, INC.

FROM: MID-RIVERS TELEPHONE COOPERATIVE, INC.

TO: CABLE & COMMUNICATIONS CORPORATION

No. of Station(s) listed:

SES-ASG-20041116-01690 E E000038 Schlumberger Omnes, Inc.

Application for Consent to Assignment

Grant of Authority

Date Effective: 12/02/2004

Current Licensee: Schlumberger Omnes, Inc.

FROM: SCHLUMBERGER OMNES, INC.

TO: Schlumberger Technology Corporation

No. of Station(s) listed: 3

SES-ASG-20041116-01711 E E010082 Schlumberger Omnes, Inc.

Application for Consent to Assignment

Grant of Authority

Date Effective: 12/02/2004

Current Licensee: Schlumberger Omnes, Inc.

FROM: SCHLUMBERGER OMNES, INC.

TO: Schlumberger Technology Corporation

No. of Station(s) listed: 1

SES-LIC-20041007-01504 E E040394 GCI Communication Corp.

Application for Authority

12/02/2004 - 12/02/2019

Grant of Authority

Date Effective: 12/02/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: Yakutat, AK

59 ° 32 ' 36.90 " N LAT.

139 ° 43 ' 46.00 " W LONG.

ANTENNA ID: 1	4.5 meters	Scientific-Atlanta	8345
5925.0000 - 6425.0000 MHz	60K0D7W-	55.90 dBW	Amplitude and Angle Modulated Voice, Video, and Data Services
5925.0000 - 6425.0000 MHz	36M0G7W	72.80 dBW	Phase Modulated Voice, Video, and Data Services.
3700.0000 - 4200.0000 MHz	36M0D7W		Amplitude and Angle Modulated Voice, Video, and Data Services
3700.0000 - 4200.0000 MHz	36M0G7W		Phase Modulated Voice, Video, and Data Services.
3700.0000 - 4200.0000 MHz	45K0G7W-		Phase Modulated Voice, Video, and Data Services.
5925.0000 - 6425.0000 MHz	36M0D7W	72.80 dBW	Amplitude and Angle Modulated Voice, Video, and Data Services
5925.0000 - 6425.0000 MHz	45K0G7W-	54.60 dBW	Phase Modulated Voice, Video, and Data Services.
3700.0000 - 4200.0000 MHz	60K0D7W-		Amplitude and Angle Modulated Voice, Video, and Data Services

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20041019-01567 E E040408 Rainbow CT Holdings, Inc.

Application for Authority

12/02/2004 - 12/02/2019

Grant of Authority

Date Effective: 12/02/2004

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION:

ANTENNA ID: 1	1.2 meters	Av1	1200 US DSNG
14000.0000 - 14500.0000 MHz	24M0G7F	62.24 dBW	PSK Digital Video w/digital audio/data

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20041020-01569 E E040409 SATCOM SYSTEMS, INCORPORATED

Application for Authority

12/01/2004 - 12/01/2019

Grant of Authority

Date Effective: 12/01/2004

Class of Station: VSAT Network

Nature of Service: Domestic Fixed Satellite Service

SITE ID: HUB

LOCATION: 2333 NORTH VALLEY STREET (3.8M. HUB), LOS ANGELES, BURBANK, CA

34 ° 11 ' 57.00 " N LAT.

118 ° 20 ' 49.00 " W LONG.

ANTENNA ID: HUB 1	3.8 meters	PRODELIN	SERIES 1383
14000.0000 - 14500.0000 MHz	2M00G7D	65.70 dBW	DATA, QPSK MODULATION, 2 MBPS, RATE 3/4
11700.0000 - 12200.0000 MHz	2M00G7D		DATA, QPSK MODULATION, 2 MBPS, RATE 3/4
11700.0000 - 12200.0000 MHz	500KG7D		DATA, QPSK MODULATION, 512 KBPS, RATE 3/4
11700.0000 - 12200.0000 MHz	1M50G7D		DATA, QPSK MODULATION, 1.5 MBPS, RATE 3/4

SITE ID: REMOTE2.4M.

LOCATION: 2.4M. VSAT (200 UNITS), CONUS, AK, HI, PR VI

ANTENNA ID: TF2.4M	2.4 meters	AVL TECHNOLOGIES	2.4M SNG
14000.0000 - 14500.0000 MHz	2M00G7D	61.80 dBW	DATA, QPSK MODULATION, 2 MBPS, RATE 3/4
14000.0000 - 14500.0000 MHz	1M50G7D	58.00 dBW	DATA, QPSK MODULATION, 1.5 MBPS, RATE 3/4
14000.0000 - 14500.0000 MHz	500KG7D	55.80 dBW	DATA, QPSK MODULATION, 512 KBPS, RATE 3/4
11700.0000 - 12200.0000 MHz	500KG7D		DATA, QPSK MODULATION, 512 KBPS, RATE 3/4
11700.0000 - 12200.0000 MHz	1M50G7D		DATA, QPSK MODULATION, 1.5 MBPS, RATE 3/4
11700.0000 - 12200.0000 MHz	2M00G7D		DATA, QPSK MODULATION, 2 MBPS, RATE 3/4

SITE ID: REMOTE1.8M.
LOCATION: 1.8M. VSAT (300 UNITS), CONUS, AK, HI, PR VI

ANTENNA ID:	TF1.8M	1.8 meters	AVL TECHNOLOGIES	1888 MVSAT
14000.0000 - 14500.0000 MHz		2M00G7D	59.20 dBW	DATA, QPSK MODULATION, 2 MBPS, RATE 3/4
14000.0000 - 14500.0000 MHz		1M50G7D	58.00 dBW	DATA, QPSK MODULATION, 1.5 MBPS, RATE 3/4
14000.0000 - 14500.0000 MHz		500KG7D	53.20 dBW	DATA, QPSK MODULATION, 512 KBPS, RATE 3/4
11700.0000 - 12200.0000 MHz		500KG7D		DATA, QPSK MODULATION, 512 KBPS, RATE 3/4
11700.0000 - 12200.0000 MHz		1M50G7D		DATA, QPSK MODULATION, 1.5 MBPS, RATE 3/4
11700.0000 - 12200.0000 MHz		2M00G7D		DATA, QPSK MODULATION, 2 MBPS, RATE 3/4

SITE ID: REMOTE1.2M.
LOCATION: 1.2M. VSAT (1500 UNITS), CONUS, AK, HI, PR VI

ANTENNA ID:	TF1.2M	1.2 meters	AVL TECHNOLOGIES	1.2M MVSAT
14000.0000 - 14500.0000 MHz		2M00G7D	56.00 dBW	DATA, QPSK MODULATION, 2 MBPS, RATE 3/4
14000.0000 - 14500.0000 MHz		1M50G7D	54.80 dBW	DATA, QPSK MODULATION, 1.5 MBPS, RATE 3/4
14000.0000 - 14500.0000 MHz		500KG7D	50.00 dBW	DATA, QPSK MODULATION, 512 KBPS, RATE 3/4
11700.0000 - 12200.0000 MHz		500KG7D		DATA, QPSK MODULATION, 512 KBPS, RATE 3/4
11700.0000 - 12200.0000 MHz		1M50G7D		DATA, QPSK MODULATION, 1.5 MBPS, RATE 3/4
11700.0000 - 12200.0000 MHz		2M00G7D		DATA, QPSK MODULATION, 2 MBPS, RATE 3/4

Points of Communication:

HUB - ALSAT - (ALSAT)

REMOTE1.2M. - ALSAT - (ALSAT)

REMOTE1.8M. - ALSAT - (ALSAT)

REMOTE2.4M. - ALSAT - (ALSAT)

SES-MOD-20030130-00110 E E970143 NORTHROP GRUMMAN SYSTEMS CORPORATION

Application for Modification

09/10/1998 - 09/10/2008

Grant of Authority

Date Effective: 05/19/2003

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

"CORRECTION" This MOD application went out on Accepted Public Notice Report No. SES-00481, dated March 19, 2003 and granted May 19, 2003 with the incorrect Site Location Information of Falls Church, VA, and instead it should have been Beale Air Force Base, CA as requested in e-mail request dated September 8, 2004.

SITE ID: 1

LOCATION: BEALE AFB, CA

39 ° 9 ' 27.00 " N LAT.

121 ° 13 ' 14.00 " W LONG.

ANTENNA ID: 1 6.25 meters L-3 COMMUNICATIONS 7186095-00

14000.0000 - 14500.0000 MHz 433KG1D 60.27 dBW

14000.0000 - 14500.0000 MHz 3M35G1D 72.27 dBW

11700.0000 - 12200.0000 MHz 433KG1D

11700.0000 - 12200.0000 MHz 65M0G1D

14000.0000 - 14500.0000 MHz 433KG1D 60.71 dBW

QPSK WITH REED-SOLOMON
(208,192) CONCATENATED WITH
RATE 1/2 CONSTRAINT LENGTH 7
CONVOLUTIONAL ENCODING.

11700.0000 - 12200.0000 MHz 69M1G1D

11700.0000 - 12200.0000 MHz 57M8G1D

11700.0000 - 12200.0000 MHz 43M3G1D

11700.0000 - 12200.0000 MHz 12M4G1D

11700.0000 - 12200.0000 MHz 3M35G1D

11700.0000 - 12200.0000 MHz 3M35G1D

Points of Communication:

1 - ALSAT - (ALSAT)

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

SES-MOD-20040816-01174 E E960397 GCI Communication Corp.

Application for Modification

08/30/2004 - 08/30/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: ILIAMNA, AK

59 ° 45 ' 45.50 " N LAT.

154 ° 49 ' 17.80 " W LONG.

ANTENNA ID: 1	3.6 meters	VIASAT	8136
5925.0000 - 6425.0000 MHz	36M0G7D	68.60 dBW	PHASE MODULATED VOICE, VIDEO, AND DATA SERVCIES
5925.0000 - 6425.0000 MHz	882KF8W-	66.30 dBW	
5925.0000 - 6425.0000 MHz	36M0F8W	68.60 dBW	
3700.0000 - 4200.0000 MHz	6K72G7D-		NULL
3700.0000 - 4200.0000 MHz	882KF8W-		
3700.0000 - 4200.0000 MHz	36M0F8W		
3700.0000 - 4200.0000 MHz	6K72D7D		NULL
3700.0000 - 4200.0000 MHz	36M0D7D		NULL
5925.0000 - 6425.0000 MHz	6K72G7D-	45.10 dBW	PHASE MODULATED VOICE, VIDEO, AND DATA SERVCIES
3700.0000 - 4200.0000 MHz	36M0G7D		NULL
5925.0000 - 6425.0000 MHz	6K72D7D	45.10 dBW	PHASE AND AMPLITUDE MODULATED VOICE, VIDEO, AND DATA SERVICES.
5925.0000 - 6425.0000 MHz	36M0D7D	68.60 dBW	PHASE AND AMPLITUDE MODULATED VOICE, VIDEO, AND DATA SERVICES.

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20040816-01175 E E960394 GCI Communication Corp.

Application for Modification

08/30/2004 - 08/30/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: ANAKTUVUK PASS, AK

68 ° 8 ' 30.00 " N LAT.

151 ° 43 ' 45.00 " W LONG.

ANTENNA ID: 1	3.6 meters	VIASAT	8136
5925.0000 - 6425.0000 MHz	6K72G7D	45.10 dBW	PHASE MODULATED VOICE, VIDEO, AND DATA SERVICES
5925.0000 - 6425.0000 MHz	36M0G7D	82.40 dBW	PHASE MODULATED VOICE, VIDEO, AND DATA SERVICES
5925.0000 - 6425.0000 MHz	882KF8W	66.30 dBW	
5925.0000 - 6425.0000 MHz	36M0F8W	69.90 dBW	
3700.0000 - 4200.0000 MHz	6K72G7D		NULL
3700.0000 - 4200.0000 MHz	36M0G7D		NULL
3700.0000 - 4200.0000 MHz	882KF8W		
3700.0000 - 4200.0000 MHz	36M0F8W		
3700.0000 - 4200.0000 MHz	6K72D7D		NULL
3700.0000 - 4200.0000 MHz	36M0D7D		NULL
5925.0000 - 6425.0000 MHz	6K72D7D	45.10 dBW	PHASE AND AMPLITUDE MODULATED VOICE, VIDEO, AND DATA SERVICES
5925.0000 - 6425.0000 MHz	36M0D7D	68.60 dBW	PHASE AND AMPLITUDE MODULATED VOICE, VIDEO, AND DATA SERVICES

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20040816-01186 E E960369 GCI Communication Corp.

Application for Modification

08/30/2004 - 08/30/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: AKUTAN, AK

54 ° 8 ' 4.00 " N LAT.

165 ° 46 ' 28.00 " W LONG.

ANTENNA ID: 1 3.6 meters SCIENTIFIC ATLANTA 8136

5925.0000 - 6425.0000 MHz 36M0G7D 68.90 dBW

3700.0000 - 4200.0000 MHz 36M0G7D

5925.0000 - 6425.0000 MHz 6K72G7D 45.10 dBW

3700.0000 - 4200.0000 MHz 6K72G7D

5925.0000 - 6425.0000 MHz 6K72D7D 45.10 dBW

3700.0000 - 4200.0000 MHz 6K72D7D

5925.0000 - 6425.0000 MHz 36M0D7D 68.90 dBW

3700.0000 - 4200.0000 MHz 36M0D7D

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20040816-01187 E E960425 GCI Communication Corp.

Application for Modification

08/30/2004 - 08/30/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: COLD BAY, AK

55 ° 12 ' 25.00 " N LAT.

162 ° 42 ' 41.00 " W LONG.

ANTENNA ID: 1 3.6 meters SCIENTIFIC ATLANTA 8136

5925.0000 - 6425.0000 MHz 6K72G7D- 45.10 dBW

5925.0000 - 6425.0000 MHz	36M0G7D	68.60 dBW
3700.0000 - 4200.0000 MHz	6K72G7D-	
3700.0000 - 4200.0000 MHz	36M0G7D	
5925.0000 - 6425.0000 MHz	6K72D7D	45.10 dBW
3700.0000 - 4200.0000 MHz	36M0D7D	
3700.0000 - 4200.0000 MHz	6K72D7D	
5925.0000 - 6425.0000 MHz	36M0D7D	68.60 dBW

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20040907-01776 P E040124 Bluebonnet Communications, Inc.

Application for Modification

04/15/2004 - 04/15/2019

Grant of Authority

Date Effective: 12/03/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

This is a notification, pursuant to Section 25.118(a) of the Rules of a different, but electrically identical antenna.

SITE ID: 1

LOCATION: 129 WEST PRIEN LAKE ROAD, CALCASIEU, LAKE CHARLES, LA

30 ° 11 ' 50.00 " N LAT.

93 ° 13 ' 12.00 " W LONG.

ANTENNA ID: 1 2.4 meters PRODELIN 1244

14000.0000 - 14500.0000 MHz 3M00G7W 64.00 dBW DIGITAL AUDIO AND VIDEO

11700.0000 - 12200.0000 MHz 3M00G7W DIGITAL AUDIO AND VIDEO

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20041012-01518 E E950257 ADVANCE STORES COMPANY, INC.

Application for Modification

09/01/1995 - 09/01/2005

Grant of Authority

Date Effective: 12/01/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

"MOD" for E950257 currently is the 6.1 m. hub for a licensed VSAT system. Licensee seeks authority to convert E950257 into a standard Ku-Band T/R license, to increase EIRP and EIRP density, and to add a video emission designator. Upon grant, licensee will surrender the licenses for the remote VSATs (E950258 & E950259 are the call signs for the VSATs).

SITE ID: 1

LOCATION: 5673 AIRPORT ROAD (6.1M. HUB), ROANOKE, ROANOKE, VA
37 ° 19 ' 5.00 " N LAT. 79 ° 58 ' 6.00 " W LONG.

ANTENNA ID: 1	6.1 meters	SCIENTIFIC ATLANTA	8060-6
14000.0000 - 14500.0000 MHz	650KG7D	52.10 dBW	DIGITAL VIDEO AND DATA
11700.0000 - 12200.0000 MHz	200KG7D		NULL
11700.0000 - 12200.0000 MHz	400KG7D		NULL
14000.0000 - 14500.0000 MHz	7M75G2W	74.20 dBW	DIGITAL VIDEO AND DATA
11700.0000 - 12200.0000 MHz	7M75G2W		DIGITAL VIDEO AND DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20030523-00694 E E030121 JOURNAL BROADCAST CORPORATION

Registration 05/23/2003 - 05/23/2018

Grant of Authority Date Effective: 07/15/2003

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

"CORECTION" for the Certification Tab in IBFS "Description" technical Data should have read (KTNV) instead of KNTV per e-mail request dated September 14, 2004.

SITE ID: 1

LOCATION: 3355 S. VALLEY VIEW BLVD. (KTNV), CLARK, LAS VEGAS, NV
36 ° 7 ' 43.90 " N LAT. 115 ° 11 ' 28.00 " W LONG.

ANTENNA ID: 1	7.3 meters	ANDREW CORPORATION	ESA 73-46
3700.0000 - 4200.0000 MHz	36M0G7W		PSK, DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO/DATA
3700.0000 - 4200.0000 MHz	36M0F8W		ANALOG VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20041012-01511 E E040397 CAMERON UNIVERSITY

Registration

10/12/2004 - 10/12/2019

Grant of Authority

Date Effective: 12/01/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

Due to a Typoerror on the Frequency Coordination Report the emission designator 36K0F1D should have been (30K0F1D) as shown on the FCC Form 312 Schedule B per e-mail request dated October 19, 2004.

SITE ID: 1

LOCATION: 2800 W. GROVE (KCCU-FM), COMANCHE, LAWTON, OK

34 ° 36 ' 24.00 " N LAT.

98 ° 26 ' 4.00 " W LONG.

ANTENNA ID: 3.8M. 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:

1 - ALSAT - (ALSAT)

SES-REG-20041021-01571 E E040410 Oxford Networks Broadband, LLC

Registration

10/21/2004 - 10/21/2019

Grant of Authority

Date Effective: 12/03/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: Lewinston

LOCATION: 411 Lisbon Street, Androscoggin, Lewiston, ME

44 ° 5 ' 30.60 " N LAT.

70 ° 12 ' 52.30 " W LONG.

ANTENNA ID: 5.0 5 meters Antenna Tech. Corp Simulsat

3700.0000 - 4200.0000 MHz 36M0F3F Standard video with associated audio subcarriers

3700.0000 - 4200.0000 MHz 36M0G7W Digital traffic, various information, various data rates, various FEC

Points of Communication:

Lewinston - ALSAT - (ALSAT)

SES-REG-20041022-01576 E E040411 KCBX, Inc

Registration

10/22/2004 - 10/22/2019

Grant of Authority

Date Effective: 12/02/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: KCBX-FM

LOCATION: 4100 Vachell Lane, San Luis Obispo, San Luis Obispo, CA

35 ° 14 ' 54.50 " N LAT.

120 ° 40 ' 31.80 " W LONG.

ANTENNA ID: 3.7M 3.7 meters Prodelin 3.7 METER PF

3700.0000 - 4200.0000 MHz 30K0F1D Digital Audio Carrier

3700.0000 - 4200.0000 MHz 10M3G7W Digital Audio Carrier

Points of Communication:

KCBX-FM - ALSAT - (ALSAT)

SES-REG-20041022-01577 E E040412 Fresh Air, Inc.

Registration

10/22/2004 - 10/22/2019

Grant of Authority

Date Effective: 12/02/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: KFAI-FM

LOCATION: 1808 Riverside Avenue, Hennepin, Minneapolis, MN

44 ° 58 ' 12.80 " N LAT.

93 ° 14 ' 47.80 " W LONG.

ANTENNA ID: 3.8M 3.8 meters Comtech 3.8 METER PF

3700.0000 - 4200.0000 MHz 30K0F1D 0.00 dBW Digital Audio Carrier

3700.0000 - 4200.0000 MHz 10M3G7W 0.00 dBW Digital Audio Carrier

Points of Communication:

KFAI-FM - ALSAT - (ALSAT)

SES-REG-20041022-01583 E E040413 STATE OF OREGON ACTING BY & THRU THE STATE BOARD OF HIG

Registration

10/22/2004 - 10/22/2019

Grant of Authority

Date Effective: 12/01/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: WEBSTER STREET (KSOR-FM), LANE, ASHLAND, OR
42 ° 11 ' 15.30 " N LAT. 122 ° 41 ' 25.70 " W LONG.

ANTENNA ID: 3.8M. 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:

1 - ALSAT - (ALSAT)

SES-RWL-20041115-01685 E E7752 US CABLE OF COASTAL-TEXAS LP

Renewal

11/30/2004 - 11/30/2019

Grant of Authority

Date Effective: 12/01/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

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

ANTENNA ID: 1 5 meters ATC SIMULSAT 5M

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041123-01748 E E940460 HUGHES NETWORK SYSTEMS, INC.

Renewal

12/23/2004 - 12/23/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: VSAT Network

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

SITE ID: HUB 6.1M

LOCATION: ONE AEROJET WAY, CLARK, NORTH LAS VEGAS, NV
36 ° 14 ' 21.00 " N LAT. 115 ° 7 ' 6.00 " W LONG.

ANTENNA ID: TR 6.1 6.1 meters VERTEX 6.1 KPK

14000.0000 - 14500.0000 MHz	6M00G7D	75.10 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	78.10 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	63.30 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	69.30 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE 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

SITE ID: TR 1.8M

LOCATION: CONUS, AK, HI, VI, PR TR 1.8 meter

ANTENNA ID: TR 1.8	1.8 meters	PRODELIN	1184
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE 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
11700.0000 - 12200.0000 MHz	400KG7D	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER

SITE ID: TR 2.4M
LOCATION: CONUS, AK, HI, VI, PR TR 2.4 meter

ANTENNA ID:	TR 2.4	2.4 meters	PRODELIN	1244
	14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE 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
	11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER

SITE ID: TR 1.0M
LOCATION: CONUS, AK, HI, VI, PR TR 1.0 meter
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TR 1.0	1 meters	HUGHES NETWORK SYSTEMS	SCE 3000172
14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.00 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE 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
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE

SITE ID: TR 1.2M

LOCATION: CONUS, AK, HI, PR TR 1.2 meter
0 ° 0 ' 0.00 " N LAT.

0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TR 1.2 1.2 meters PRODELIN 1134

14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE 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
11700.0000 - 12200.0000 MHz	400KG7D	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER

SITE ID: HUB 7.6M

LOCATION: ONE AEROJET WAY, CLARK, NORTH LAS VEGAS, NV

36 ° 14 ' 21.00 " N LAT.

115 ° 7 ' 6.00 " W LONG.

ANTENNA ID: TR 7.6	7.6 meters	ANDREW CORP.	ES76K-1
14000.0000 - 14500.0000 MHz	400KG7D	65.30 dBW	BPSK OR MSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	71.30 dBW	BPSK , DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	83.10 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	84.80 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER

SITE ID: TR .74CM

LOCATION: CONUS, AK, HI, VI, PR (TR .74CM 100,000 TERMINALS)

ANTENNA ID: TR .74	0.74 meters	PRODELIN	HANT-91TR
14000.0000 - 14500.0000 MHz	400KG7D	39.00 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	200KG7D	39.00 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: TF TR 74CM
LOCATION: CONUS, AK, HI, VI, PR (TF TR 74CM 20,000 TERMINALS)

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

14000.0000 - 14500.0000 MHz	400KG7D	39.00 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	39.00 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: TF TR .98CM
LOCATION: CONUS, AK, HI, VI, PR (TF TR .98CM 6,000 TERMINALS)

ANTENNA ID: TF TR .98 0.98 meters PRODELIN 9008668

14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: TR .98CM
LOCATION: CONUS, AK, HI, VI, PR (TR .98CM 30,000 TERMINALS)

ANTENNA ID: TR .98 0.98 meters PROLELIN 9008668

14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

Points of Communication:

HUB 6.1M - ALSAT - (ALSAT)

HUB 7.6M - ALSAT - (ALSAT)

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

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

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

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

TR 1.0M - ALSAT - (ALSAT)

TR 1.2M - ALSAT - (ALSAT)

TR 1.8M - ALSAT - (ALSAT)

TR 2.4M - ALSAT - (ALSAT)

SES-RWL-20041124-01752 E E940532 PanAmSat Licensee Corp.

Renewal

12/23/2004 - 12/23/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: 2857 Fork Creek Church Road, DEKALB, ELLENWOOD, GA

33 ° 39 ' 50.00 " N LAT.

84 ° 16 ' 19.00 " W LONG.

ANTENNA ID: 7.2M 7.2 meters VERTEX 7.2 KPK

14497.6000 - 14498.4000 MHz	670KF1D	86.00 dBW	FM-COMMAND & / or Ranging tones
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14000.0000 - 14500.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
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14000.0000 - 14500.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
14000.0000 - 14500.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
14000.0000 - 14500.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
14000.0000 - 14250.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
14000.0000 - 14250.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
14000.0000 - 14250.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
14000.0000 - 14250.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
13998.6000 - 13999.4000 MHz	670KF1D	83.50 dBW	FM-COMMAND & / or Ranging tones
13997.5000 - 13998.5000 MHz	890KF2D	83.50 dBW	FM-COMMAND & / or Ranging tones
13954.0000 - 13992.0000 MHz	36M0G7W	75.00 dBW	Digital TV - MCPC
13954.0000 - 13992.0000 MHz	18M0G7W	72.00 dBW	Digital TV - MCPC
13814.0000 - 13954.0000 MHz	36M0F9W	75.00 dBW	TELEVISION/FM
13814.0000 - 13954.0000 MHz	18M0F9W	72.00 dBW	TELEVISION/FM
13814.0000 - 13954.0000 MHz	36M0G7W	75.00 dBW	DIGITAL TV-SCPC
13814.0000 - 13954.0000 MHz	18M0G7W	72.00 dBW	DIGITAL TV-SCPC
13814.0000 - 13954.0000 MHz	6M85G7W	69.00 dBW	DIGITAL TV-SCPC
13814.0000 - 13954.0000 MHz	2M90G7W	70.40 dBW	DIGITAL TV-SCPC
13814.0000 - 13954.0000 MHz	2M20G2W	69.20 dBW	SCPC DATA
13814.0000 - 13954.0000 MHz	375KG2W	68.00 dBW	SCPC DATA

13756.0000 - 13814.0000 MHz	36M0G7W	75.00 dBW	Digital TV - MCPC
13756.0000 - 13814.0000 MHz	18M0G7W	72.00 dBW	Digital TV - MCPC
12750.0000 - 13250.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
12750.0000 - 13250.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
12750.0000 - 13250.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
12750.0000 - 13250.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
11700.0000 - 12200.0000 MHz	30M0F8F		TELEVISION/FM
11700.0000 - 12200.0000 MHz	16M0F8F		TELEVISION/FM
11700.0000 - 12200.0000 MHz	2M70G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	6M40G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	8M00G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	24M0G7F		Digital TV - MCPC
11700.0000 - 12200.0000 MHz	1M36G2W		SCPC DATA
11450.9000 - 11451.1000 MHz	80K0P7D		PM/PSK - 2 - Telemetry
11450.0000 - 11700.0000 MHz	30M0F8F		TELEVISION/FM
11450.0000 - 11700.0000 MHz	16M0F8F		TELEVISION/FM
11450.0000 - 11700.0000 MHz	2M70G7F		DIGITAL TV - SCPC
11450.0000 - 11700.0000 MHz	6M40G7F		DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	8M00G7F		DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	24M0G7F		Digital TV - MCPC
11450.0000 - 11700.0000 MHz	1M36G2W		SCPC DATA
11446.9000 - 11449.1000 MHz	180KP7D		PM/PSK - 2 - Telemetry

11200.0000 - 11450.0000 MHz	30M0F8F		TELEVISION/FM
11200.0000 - 11450.0000 MHz	16M0F8F		TELEVISION/FM
11200.0000 - 11450.0000 MHz	2M70G7F		DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	6M40G7F		DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	8M00G7F		DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	24M0G7F		Digital TV - MCPC
11200.0000 - 11450.0000 MHz	1M36G2W		SCPC DATA
10950.0000 - 11200.0000 MHz	18M0F9W		Analog TV/FM
10950.0000 - 11200.0000 MHz	18M0G7W		Digital TV - SCPC
10950.0000 - 11200.0000 MHz	6M85G7W		Digital TV - SCPC
10950.0000 - 11200.0000 MHz	2M90G7W		Digital TV - MCPC
10950.0000 - 11200.0000 MHz	2M20G7W		Digital TV - SCPC
10950.0000 - 11200.0000 MHz	375KG7W		SCPC DATA
10950.0000 - 11200.0000 MHz	36M0F9W		Analog TV/FM
10950.0000 - 11200.0000 MHz	36M0G7W		Digital TV - SCPC
10700.0000 - 10950.0000 MHz	30M0F8F		TELEVISION/FM
10700.0000 - 10950.0000 MHz	16M0F8F		TELEVISION/FM
10700.0000 - 10950.0000 MHz	2M70G7F		DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	6M40G7F		DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	8M00G7F		DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	24M0G7F		Digital TV - MCPC
10700.0000 - 10950.0000 MHz	1M36G2W		SCPC DATA
ANTENNA ID: 11.1M/K3	11.1 meters	VERTEX	11 KPK
14497.6000 - 14498.4000 MHz	670KF1D	86.00 dBW	FM-COMMAND & / or Ranging tones
14000.0000 - 14500.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM

14000.0000 - 14500.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
14000.0000 - 14500.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
14000.0000 - 14500.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
14000.0000 - 14500.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
14000.0000 - 14250.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
14000.0000 - 14250.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
14000.0000 - 14250.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
14000.0000 - 14250.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
14000.0000 - 14250.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
13998.6000 - 13999.4000 MHz	670KF1D	83.50 dBW	FM-COMMAND & / or Ranging tones
13997.5000 - 13998.5000 MHz	890KF2D	83.50 dBW	FM-COMMAND & / or Ranging tones
13954.0000 - 13992.0000 MHz	36M0G7W	75.00 dBW	Digital TV - MCPC
13954.0000 - 13992.0000 MHz	18M0G7W	72.00 dBW	Digital TV - MCPC
13814.0000 - 13954.0000 MHz	36M0F9W	75.00 dBW	ANALOG TV
13814.0000 - 13954.0000 MHz	18M0F9W	72.00 dBW	ANALOG TV
13814.0000 - 13954.0000 MHz	36M0G7W	75.00 dBW	Digital TV - SCPC
13814.0000 - 13954.0000 MHz	18M0G7W	72.00 dBW	Digital TV - SCPC
13814.0000 - 13954.0000 MHz	6M85G7W	69.00 dBW	Digital TV - SCPC
13814.0000 - 13954.0000 MHz	2M90G7W	70.40 dBW	Digital TV - MCPC
13814.0000 - 13954.0000 MHz	2M20G7W	69.20 dBW	Digital TV - SCPC
13814.0000 - 13954.0000 MHz	375KG7W	68.00 dBW	Digital TV - SCPC

13756.0000 - 13814.0000 MHz	36M0G7W	75.00 dBW	Digital TV - MCPC
13756.0000 - 13814.0000 MHz	18M0G7W	72.00 dBW	Digital TV - MCPC
12750.0000 - 13250.0000 MHz	30M0F8F	84.00 dBW	TELEVISION/FM
12750.0000 - 13250.0000 MHz	16M0F8F	81.00 dBW	TELEVISION/FM
12750.0000 - 13250.0000 MHz	2M70G7F	63.60 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	6M40G7F	66.70 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	8M00G7F	67.50 dBW	DIGITAL TV-SCPC
12750.0000 - 13250.0000 MHz	24M0G7F	82.40 dBW	Digital TV - MCPC
12750.0000 - 13250.0000 MHz	1M36G2W	60.40 dBW	SCPC DATA
11700.0000 - 12200.0000 MHz	30M0F8F		TELEVISION/FM
11700.0000 - 12200.0000 MHz	16M0F8F		TELEVISION/FM
11700.0000 - 12200.0000 MHz	2M70G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	6M40G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	8M00G7F		DIGITAL TV-SCPC
11700.0000 - 12200.0000 MHz	24M0G7F		Digital TV - MCPC
11700.0000 - 12200.0000 MHz	1M36G2W		SCPC DATA
11450.9000 - 11451.1000 MHz	80K0P7D		PM/PSK - 2 - Telemetry
11450.0000 - 11700.0000 MHz	30M0F8F		TELEVISION/FM
11450.0000 - 11700.0000 MHz	16M0F8F		TELEVISION/FM
11450.0000 - 11700.0000 MHz	2M70G7F		DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	6M40G7F		DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	8M00G7F		DIGITAL TV-SCPC
11450.0000 - 11700.0000 MHz	24M0G7F		Digital TV - MCPC
11450.0000 - 11700.0000 MHz	1M36G2W		SCPC DATA
11446.9000 - 11449.1000 MHz	180KP7D		PM/PSK - 2 - Telemetry

11200.0000 - 11450.0000 MHz	30M0F8F	TELEVISION/FM
11200.0000 - 11450.0000 MHz	16M0F8F	TELEVISION/FM
11200.0000 - 11450.0000 MHz	2M70G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	6M40G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	8M00G7F	DIGITAL TV-SCPC
11200.0000 - 11450.0000 MHz	24M0G7F	Digital TV - MCPC
11200.0000 - 11450.0000 MHz	1M36G2W	SCPC DATA
10700.0000 - 10950.0000 MHz	30M0F8F	TELEVISION/FM
10700.0000 - 10950.0000 MHz	16M0F8F	TELEVISION/FM
10700.0000 - 10950.0000 MHz	2M70G7F	DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	6M40G7F	DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	8M00G7F	DIGITAL TV-SCPC
10700.0000 - 10950.0000 MHz	24M0G7F	Digital TV - MCPC
10700.0000 - 10950.0000 MHz	1M36G2W	SCPC DATA

Points of Communication:

- 1 - ALSAT - (ALSAT)
- 1 - PAS-1R - (45.0 W.L.)
- 1 - PAS-3R - (43.0 W.L.)
- 1 - PAS-8B - (43 W.L.)
- 1 - PAS-9 - (58.0 W.L.)

SES-RWL-20041124-01753 E KA450 PanAmSat Licensee Corp.

Renewal

01/26/2005 - 01/26/2020

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

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

SITE ID: 1

LOCATION: 961 ANSELMO COURT, NAPA, CA

38 ° 14 ' 43.00 " N LAT.

122 ° 16 ' 45.00 " W LONG.

ANTENNA ID:	7-I/9M	9 meters	VERTEX	9 KPK
	14497.6000 - 14498.4000 MHz	670KF1D	87.40 dBW	COMMAND Wide-band FM via PAS-9
	14000.0000 - 14500.0000 MHz	36M0F8F	83.90 dBW	ANALOG TV/FM
	14000.0000 - 14500.0000 MHz	30M0F8F	83.10 dBW	ANALOG TV/FM
	14000.0000 - 14500.0000 MHz	27M0F8F	82.70 dBW	ANALOG TV/FM
	14000.0000 - 14500.0000 MHz	24M0F8F	82.20 dBW	ANALOG TV/FM
	14000.0000 - 14500.0000 MHz	54M0G7F	85.70 dBW	DIGITAL Compressed TV - MCPC
	14000.0000 - 14500.0000 MHz	24M0G7F	82.20 dBW	DIGITAL Compressed TV - MCPC
	14000.0000 - 14500.0000 MHz	9M80G7F	78.30 dBW	DIGITAL Compressed TV - SCPC
	14000.0000 - 14500.0000 MHz	8M00G7F	77.40 dBW	DIGITAL Compressed TV - SCPC
	14000.0000 - 14500.0000 MHz	6M50G7F	76.50 dBW	DIGITAL Compressed TV - SCPC
	14000.0000 - 14500.0000 MHz	2M70G7F	72.70 dBW	DIGITAL Compressed TV - SCPC
	14000.0000 - 14500.0000 MHz	1M36KG7W	63.40 dBW	DATA
	13998.6000 - 13999.4000 MHz	670KF1D	84.00 dBW	COMMAND Wide-band FM via PAS-9
	12750.0000 - 13250.0000 MHz	36M0F8F	81.00 dBW	ANALOG TV/FM via PAS-9
	12750.0000 - 13250.0000 MHz	18M0F8F	78.00 dBW	ANALOG TV/FM via PAS-9
	12750.0000 - 13250.0000 MHz	36M0G7F	81.00 dBW	DIGITAL Compressed TV - MCPC via PAS-9
	12750.0000 - 13250.0000 MHz	6M40G7F	68.50 dBW	DIGITAL Compressed TV - SCPC via PAS-9
	12750.0000 - 13250.0000 MHz	2M78G7F	65.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
	12750.0000 - 13250.0000 MHz	1M64G7W	62.00 dBW	DATA via PAS-9
	12750.0000 - 13250.0000 MHz	655KG7W	60.00 dBW	DATA via PAS-9

12750.0000 - 13250.0000 MHz	82K0G7W	51.00 dBW	DATA via PAS-9
11700.0000 - 12200.0000 MHz	36M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	30M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	27M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	24M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	54M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC
11700.0000 - 12200.0000 MHz	24M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC
11700.0000 - 12200.0000 MHz	9M80G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	8M00G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	6M50G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	2M70G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	1M36KG7W	0.00 dBW	DATA
11454.0000 - 11454.0000 MHz	4K00N0N		UPC Beacon via PAS-9
11451.9000 - 11452.1000 MHz	80K0P7D		Telemetry - PM/PSK via PAS-9
11450.9000 - 11451.1000 MHz	80K0P7D		Telemetry - PM/PSK via PAS-9
11200.0000 - 11450.0000 MHz	36M0F8F	0.00 dBW	ANALOG TV/FM via PAS-9
11200.0000 - 11450.0000 MHz	18M0F8F	0.00 dBW	ANALOG TV/FM via PAS-9
11200.0000 - 11450.0000 MHz	36M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC via PAS-9
11200.0000 - 11450.0000 MHz	6M40G7F	0.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
11200.0000 - 11450.0000 MHz	2M78G7F	0.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
11200.0000 - 11450.0000 MHz	1M64G7W	0.00 dBW	DATA via PAS-9
11200.0000 - 11450.0000 MHz	655KG7W	0.00 dBW	DATA via PAS-9
11200.0000 - 11450.0000 MHz	82K0G7W	0.00 dBW	DATA via PAS-9

10700.0000 - 14500.0000 MHz	18M0F8F	0.00 dBW	ANALOG TV/FM via PAS-9
10700.0000 - 14500.0000 MHz	36M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC via PAS-9
10700.0000 - 14500.0000 MHz	6M40G7F	0.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
10700.0000 - 14500.0000 MHz	2M78G7F	0.00 dBW	DIGITAL Compressed TV - SCPC via PAS-9
10700.0000 - 14500.0000 MHz	1M64G7W	0.00 dBW	DATA via PAS-9
10700.0000 - 14500.0000 MHz	655KG7W	0.00 dBW	DATA via PAS-9
10700.0000 - 14500.0000 MHz	82K0G7W	0.00 dBW	DATA via PAS-9
10700.0000 - 10950.0000 MHz	36M0F8F		ANALOG TV/FM via PAS-9
ANTENNA ID: 3-I/9M	9 meters	VERTEX	9 KPK
14000.0000 - 14500.0000 MHz	36M0F8F	83.90 dBW	ANALOG TV/FM
14000.0000 - 14500.0000 MHz	30M0F8F	83.10 dBW	ANALOG TV/FM
14000.0000 - 14500.0000 MHz	27M0F8F	82.70 dBW	ANALOG TV/FM
14000.0000 - 14500.0000 MHz	24M0F8F	82.20 dBW	ANALOG TV/FM
14000.0000 - 14500.0000 MHz	54M0G7F	85.70 dBW	DIGITAL Compressed TV - MCPC
14000.0000 - 14500.0000 MHz	24M0G7F	82.20 dBW	DIGITAL Compressed TV - MCPC
14000.0000 - 14500.0000 MHz	9M80G7F	78.30 dBW	DIGITAL Compressed TV - SCPC
14000.0000 - 14500.0000 MHz	8M00G7F	77.40 dBW	DIGITAL Compressed TV - SCPC
14000.0000 - 14500.0000 MHz	6M50G7F	76.50 dBW	DIGITAL Compressed TV - SCPC
14000.0000 - 14500.0000 MHz	2M70G7F	72.70 dBW	DIGITAL Compressed TV - SCPC
14000.0000 - 14500.0000 MHz	1M36KG7W	63.40 dBW	DATA
11700.0000 - 12200.0000 MHz	36M0F8F		ANALOG TV/FM
11700.0000 - 12200.0000 MHz	30M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	27M0F8F	0.00 dBW	ANALOG TV/FM

11700.0000 - 12200.0000 MHz	24M0F8F	0.00 dBW	ANALOG TV/FM
11700.0000 - 12200.0000 MHz	54M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC
11700.0000 - 12200.0000 MHz	24M0G7F	0.00 dBW	DIGITAL Compressed TV - MCPC
11700.0000 - 12200.0000 MHz	9M80G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	8M00G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	6M50G7F	0.00 dBW	DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	2M70G7F		DIGITAL Compressed TV - SCPC
11700.0000 - 12200.0000 MHz	1M36KG7W	0.00 dBW	DATA

Points of Communication:

- 1 - ALSAT - (ALSAT)
- 1 - ANIK E1 - (118.7 W.L.)
- 1 - ANIK E2 - (111.1 W.L.)
- 1 - PANAMSAT 5 - (194 W.L.)
- 1 - PAS-4 - (191.0 W.L.)
- 1 - PAS-9 - (58.0 W.L.)
- 1 - TDRS-5 - (174.3 W.L.)

SES-RWL-20041130-01759	E E7378	Ascent Media Systems and Technology Services, LLC
Renewal		12/07/2004 - 12/07/2019
Grant of Authority		Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: DESCHUTES, BEND, OR
44 ° 5 ' 16.00 " N LAT. 121 ° 18 ' 24.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS MODEL 5346

14000.0000 - 14500.0000 MHz	112F9	55.00 dBW
14000.0000 - 14500.0000 MHz	36000F9	77.90 dBW
11700.0000 - 12200.0000 MHz	36000F9	

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041130-01760 E E7379

Ascent Media Systems and Technology Services, LLC

Renewal

12/07/2004 - 12/07/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 23 KENNEY DRIVE, KENT, CRANSTON, RI

41 ° 44 ' 31.00 " N LAT.

71 ° 27 ' 12.00 " W LONG.

ANTENNA ID: 1

6.1 meters

HARRIS

5346

14000.0000 - 14500.0000 MHz

112KG1D

57.00 dBW

PSK PRIVATE DATA

14000.0000 - 14500.0000 MHz

36M0F8F

78.00 dBW

ANALOG VIDEO W/ ASSOC AUDIO
SUBCARRIERS

14000.0000 - 14500.0000 MHz

4M00G7F

70.00 dBW

PSK DIGITAL VIDEO WITH ASSOC.
DIGITAL AUDIO AND DATA

14000.0000 - 14500.0000 MHz

36M0G7F

78.00 dBW

PSK DIGITAL VIDEO WITH ASSOC.
DIGITAL AUDIO AND DATA

11700.0000 - 12200.0000 MHz

256KG1D

PSK PRIVATE DATA

11700.0000 - 12200.0000 MHz

36M0F8F

ANALOG VIDEO W/ ASSOC AUDIO
SUBCARRIERS

11700.0000 - 12200.0000 MHz

4M00G7F

PSK DIGITAL VIDEO WITH ASSOC.
DIGITAL AUDIO AND DATA

11700.0000 - 12200.0000 MHz

36M0G7F

PSK DIGITAL VIDEO WITH ASSOC.
DIGITAL AUDIO AND DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041130-01761 E E7380

Ascent Media Systems and Technology Services, LLC

Renewal

12/07/2004 - 12/07/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: LANE, EUGENE, OR
44 ° 5 ' 21.00 " N LAT. 123 ° 2 ' 34.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS MODEL 5346

14000.0000 - 14500.0000 MHz 112F9 55.00 dBW

14000.0000 - 14500.0000 MHz 36000F. 77.90 dBW

11700.0000 - 12200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041130-01762 E E7405 Ascent Media Systems and Technology Services, LLC
Renewal 12/07/2004 - 12/07/2019
Grant of Authority Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: ALLEN, FORT WAYNE, IN
41 ° 5 ' 38.00 " N LAT. 85 ° 10 ' 37.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS MODEL 5346

14000.0000 - 14500.0000 MHz 112F9 55.00 dBW

14000.0000 - 14500.0000 MHz 36000F9 77.90 dBW

11700.0000 - 12200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041130-01763 E E7406 Ascent Media Systems and Technology Services, LLC
Renewal 12/07/2004 - 12/07/2019
Grant of Authority Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 1201 W. SPRAGUE AVENUE, SPOKANE, SPOKANE, WA
47 ° 39 ' 19.00 " N LAT. 117 ° 26 ' 14.00 " W LONG.

ANTENNA ID: 1	8 meters	HARRIS	5349
14000.0000 - 14500.0000 MHz	112KG1D	57.00 dBW	PSK PRIVATE DATA
14000.0000 - 14500.0000 MHz	36M0F8F	78.00 dBW	ANALOG VIDEO W/ASSOC AUDIO SUBCARRIERS
14000.0000 - 14500.0000 MHz	4M00G7F	70.00 dBW	PSK DIGITAL VIDEO WITH ASSOC. DIGITAL AUDIO AND DATA
14000.0000 - 14500.0000 MHz	36M0G7F	78.00 dBW	PSK DIGITAL VIDEO WITH ASSOC. DIGITAL AUDIO AND DATA
11700.0000 - 12200.0000 MHz	36M0F8F		ANALOG VIDEO W/ASSOC AUDIO SUBCARRIERS
11700.0000 - 12200.0000 MHz	36M0G7F		PSK DIGITAL VIDEO WITH ASSOC. DIGITAL AUDIO AND DATA
11700.0000 - 12200.0000 MHz	256KG1D		PSK PRIVATE DATA
11700.0000 - 12200.0000 MHz	4M00G7F		PSK DIGITAL VIDEO WITH ASSOC. DIGITAL AUDIO AND DATA

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041130-01764 E E7408 Ascent Media Systems and Technology Services, LLC
Renewal 12/07/2004 - 12/07/2019
Grant of Authority Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: HARRISON, CLARKSBURG, WV
39 ° 16 ' 55.00 " N LAT. 80 ° 21 ' 12.00 " W LONG.

ANTENNA ID: 1	6.1 meters	HARRIS MODEL NO. 534	6
14000.0000 - 14500.0000 MHz	112F9	55.00 dBW	
14000.0000 - 14500.0000 MHz	36000F9	77.90 dBW	
11700.0000 - 12200.0000 MHz	36000F9		

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041130-01765 E E7407

Ascent Media Systems and Technology Services, LLC

Renewal

12/14/2004 - 12/14/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 1907 S. HASTINGS WAY, EAU CLAIRE, WI

44 ° 48 ' 0.00 " N LAT.

91 ° 27 ' 58.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS MODEL 5346

14000.0000 - 14500.0000 MHz 112F9Y 55.00 dBW

14000.0000 - 14500.0000 MHz 36000F9 77.90 dBW

11700.0000 - 12200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041201-01766 E E950004

CBS Broadcasting Inc.

Renewal

12/02/2004 - 12/02/2019

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: VARIOUS

ANTENNA ID: 1 2.4 meters ANDREW ES24VS-1

14000.0000 - 14500.0000 MHz 36M0F3F 66.40 dBW

14000.0000 - 14500.0000 MHz 36M0G7E 66.40 dBW

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041203-01777 E E950029 DONTRON, INC.

Renewal

01/27/2005 - 01/27/2020

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 6336 CALUMET AVENUE, LAKE, HAMMOND, IN

41 ° 35 ' 46.00 " N LAT.

87 ° 30 ' 33.00 " W LONG.

ANTENNA ID: 1

1.8 meters

CHANNEL MASTER

1.8 METER

14000.0000 - 14500.0000 MHz

400KG1D

53.00 dBW

11700.0000 - 12200.0000 MHz

400KG1D

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041203-01778 E E950113 CBS Broadcasting Inc.

Renewal

02/10/2005 - 02/10/2020

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: VARIOUS

ANTENNA ID: 1

4.6 meters

ANDREW

ESA46-124

14000.0000 - 14500.0000 MHz

36M0F8W

72.40 dBW

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20041203-01786 E E950070 CBS Broadcasting Inc.

Renewal

02/03/2005 - 02/03/2020

Grant of Authority

Date Effective: 12/07/2004

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: ONE JULIAN PRICE PLACE, MECKLENBURG, CHARLOTTE, NC
35 ° 13 ' 45.00 " N LAT. 80 ° 52 ' 22.00 " W LONG.

ANTENNA ID: 1 4.6 meters ANDREW ESA46-124

14000.0000 - 14500.0000 MHz 36M0F8W 72.40 dBW

14000.0000 - 14500.0000 MHz 36M0G7W 67.60 dBW

11700.0000 - 12200.0000 MHz 36M0F8W

11700.0000 - 12200.0000 MHz 36M0G7W

Points of Communication:

1 - ALSAT - (ALSAT)

SES-T/C-20040322-00473 E E940535 ORBCOMM License Corp.

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 12/02/2004

Current Licensee: ORBCOMM License Corp.

FROM: ORBCOMM, INC., ORBCOMM INC. c/o WS&A

TO: Ridgewood Satellite LLC, nominee for Series A Holders

No. of Station(s) listed: 4

SES-T/C-20040323-00457 E E940534 ORBCOMM License Corp.

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 12/02/2004

Current Licensee: ORBCOMM License Corp.

FROM: ORBCOMM, INC., ORBCOMM INC. c/o WS&A

TO: Ridgewood Satellite LLC, nominee for Series A Holders

No. of Station(s) listed: 1

SES-T/C-20041124-01754 E E000352 Vyvx, LLC

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 12/02/2004

Current Licensee: Vyvx, LLC

FROM: LEUCADIA NATIONAL CORPORATION

TO: Baldwin Enterprises, Inc.

No. of Station(s) listed: 30

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