



# PUBLIC NOTICE

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

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Report No. SES-00650

Wednesday October 13, 2004

## SATELLITE COMMUNICATIONS SERVICES

### RE: SATELLITE RADIO APPLICATIONS ACCEPTED FOR FILING

The applications listed herein have been found, upon initial review, to be acceptable for filing. The Commission reserves the right to return any of the applications if, upon further examination, it is determined they are defective and not in conformance with the Commission's Rules and Regulations and its Policies. Final action will not be taken on any of these applications earlier than 30 days following the date of this notice. 47 U.S.C. § 309(b). All applications accepted for filing will be assigned call signs, or other unique station identifiers. However, these assignments are for administrative purposes only and do not in any way prejudice Commission action.

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**SES-ASG-20040915-01384** E E980486 Carolina Uplink, Inc.  
Application for Consent to Assignment  
**Current Licensee:** BROADCAST BISCUIT, INC.  
**FROM:** BROADCAST BISCUIT, INC.  
**TO:** Carolina Uplink, Inc.

No. of Station(s) listed: 1

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**SES-ASG-20041004-01494** E E940509 JOHN A. TAYLOR ( d/b/a J A TAYLOR & ASSOCIATES )  
Application for Consent to Assignment  
**Current Licensee:** WTNH BROADCASTING INC.  
**FROM:** WTNH BROADCASTING, INC.  
**TO:** JOHN A. TAYLOR

No. of Station(s) listed: 1

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**SES-LIC-20040915-01385** E E040370 Plenexis Gesellschaft fuer Satellitenkommunikation  
Application for Authority  
**Class of Station:** Fixed Earth Stations

**Nature of Service:** Domestic Fixed Satellite Service

**SITE ID:** Auburn Hills  
**LOCATION:** 3933 Automation Avenue, Oakland, Auburn Hills, MI  
42 ° 42 ' 0.00 " N LAT. 83 ° 15 ' 18.00 " W LONG.

**ANTENNA ID:** Ant1 3.7 meters Andrew Corporation 3.7M

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3700.0000 - 4200.0000 MHz	2M39G7W		Digital Video, Voice, and Data
5925.0000 - 6425.0000 MHz	2M39G7W	58.80 dBW	Digital Video, Voice, and Data

**Points of Communication:**

Auburn Hills - ALSAT - (ALSAT)  
Auburn Hills - INTELSAT 805 - (304.5 E.L.)  
Auburn Hills - INTELSAT AOR - (310.0 E.L.)  
Auburn Hills - New Skies 806 - (319.5 E.L.)  
Auburn Hills - New Skies K - (338.5 E.L.)

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**SES-LIC-20040927-01461** E E040382 Hughes Network Systems, Limited  
Application for Authority  
**Class of Station:** Fixed Earth Stations

**Nature of Service:** Domestic Fixed Satellite Service

SITE ID: RN77  
LOCATION: none available (small island in Pacific Ocean), none, Wake Island  
19 ° 17 ' 32.50 " N LAT. 166 ° 36 ' 38.60 " E LONG.

ANTENNA ID: Wake RN77	2.4 meters	Prodelin	1251
3700.0000 - 4200.0000 MHz	307KG7D		Digital Data, OQPSK, 1/2 FEC, Data Rate 128 kbps
5925.0000 - 6425.0000 MHz	154KG7D	47.30 dBW	Digital Data, OQPSK, 1/2 FEC, Data Rate 64 kbps

**Points of Communication:**

RN77 - INTELSAT POR - (180.0 E.L.)

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**SES-LIC-20040927-01462** E E040383 Terremark Worldwide Incorporated  
Application for Authority  
**Class of Station:** Fixed Earth Stations

**Nature of Service:** Domestic Fixed Satellite Service

SITE ID: Miami  
LOCATION: 50 NE 9th Street, Miami-Dade, Miami, FL  
25 ° 46 ' 56.60 " N LAT. 80 ° 11 ' 34.10 " W LONG.

ANTENNA ID: A1	16.4 meters	Vertex/RSI	16.4 Meter THC
3700.0000 - 4200.0000 MHz	112KG7W -		Digital Audio, Video, and Data

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3700.0000 - 4200.0000 MHz	11M6G7W		Digital Audio, Video, and Data
5925.0000 - 5989.2000 MHz	112KG7W -	58.30 dBW	Digital Audio, Video and Data
5925.0000 - 5989.2000 MHz	11M6G7W	78.40 dBW	Digital Audio, Video, and Data
6019.8000 - 6107.8000 MHz	112KG7W -	58.30 dBW	Digital Audio, Video and Data
6019.8000 - 6107.8000 MHz	11M6G7W	78.40 dBW	Digital Audio, Video, and Data
6138.4000 - 6182.0000 MHz	112KG7W -	58.30 dBW	Digital Audio, Video, and Data
6138.4000 - 6182.0000 MHz	11M6G7W	78.40 dBW	Digital Audio, Video, and Data
6212.5000 - 6241.3000 MHz	112KG7W -	58.30 dBW	Digital Audio, Video, and Data
6212.5000 - 6241.3000 MHz	11M6G7W	78.40 dBW	Digital Audio, Video, and Data
6271.8000 - 6300.6000 MHz	112KG7W -	58.30 dBW	Digital Audio, Video, and Data
6271.8000 - 6300.6000 MHz	11M6G7W	78.40 dBW	Digital Audio, Video, and Data
6331.1000 - 6359.9000 MHz	112KG7W -	58.30 dBW	Digital Audio, Video, and Data
6331.1000 - 6359.9000 MHz	11M6G7W	78.40 dBW	Digital Audio, Video, and Data
6390.4000 - 6425.0000 MHz	112KG7W -	58.30 dBW	Digital Audio, Video, and Data
6390.4000 - 6425.0000 MHz	11M6G7W	78.40 dBW	Digital Audio, Video, and Data
5925.0000 - 5989.2000 MHz	112KG7W -	54.70 dBW	Digital Audio, Video, and Data
5925.0000 - 5989.2000 MHz	11M6G7W	74.80 dBW	Digital Audio, Video, and Data
6019.8000 - 6107.8000 MHz	112KG7W -	54.70 dBW	Digital Audio, Video, and Data
6019.8000 - 6107.8000 MHz	11M6G7W	74.80 dBW	Digital Audio, Video, and Data
6138.4000 - 6182.0000 MHz	112KG7W -	54.70 dBW	Digital Audio, Video, and Data
6138.4000 - 6182.0000 MHz	11M6G7W	74.80 dBW	Digital Audio, Video, and Data
6212.5000 - 6241.3000 MHz	112KG7W -	54.70 dBW	Digital Audio, Video, and Data
6212.5000 - 6241.3000 MHz	11M6G7W	74.80 dBW	Digital Audio, Video, and Data
6271.8000 - 6359.9000 MHz	112KG7W -	54.70 dBW	Digital Audio, Video, and Data
6271.8000 - 6359.9000 MHz	11M6G7W	74.80 dBW	Digital Audio, Video, and Data

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6390.4000 - 6425.0000 MHz	112KG7W -	54.70 dBW	Digital Audio, Video, and Data
6390.4000 - 6425.0000 MHz	11M6G7W	74.80 dBW	Digital Audio, Video, and Data
5925.0000 - 6182.0000 MHz	112KG7W -	48.80 dBW	Digital Audio, Video, and Data
5925.0000 - 6182.0000 MHz	11M6G7W	68.90 dBW	Digital Audio, Video, and Data
6212.5000 - 6241.3000 MHz	112KG7W -	48.80 dBW	Digital Audio, Video, and Data
6212.5000 - 6241.3000 MHz	11M6G7W	68.90 dBW	Digital Audio, Video, and Data
6271.8000 - 6359.9000 MHz	112KG7W -	48.80 dBW	Digital Audio, Video, and Data
6271.8000 - 6359.9000 MHz	11M6G7W	68.90 dBW	Digital Audio, Video, and Data
6390.4000 - 6425.0000 MHz	112KG7W -	48.80 dBW	Digital Audio, Video, and Data
6390.4000 - 6425.0000 MHz	11M6G7W	68.90 dBW	Digital Audio, Video, and Data
5925.0000 - 6425.0000 MHz	112KG7W -	45.80 dBW	Digital Audio, Video, and Data
5925.0000 - 6425.0000 MHz	11M6G7W	65.90 dBW	Digital Audio, Video, and Data

**Points of Communication:**

Miami - ALSAT - (ALSAT)

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

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**SES-MOD-20040921-01402** E E000001 EXXON COMMUNICATIONS COMPANY

Application for Modification

**Class of Station:** Fixed Earth Stations

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

**INFORMATIVE:**

Exxon Communications Company Call Sign E000001 File No. SES-MOD-20040921-01402

On October 4, 2004, the Satellite Division erroneously granted the above-referenced application. Pursuant to Section 1.108 of the Commission's rules, 47 §1.108, we set aside this grant and return the application to pending status.

**SITE ID:** 1

**LOCATION:** FIXED OIL DRILLING PLATFORM IN THE, GULF OF MEXICO

26 ° 56 ' 20.80 " N LAT.

94 ° 41 ' 20.00 " W LONG.

**ANTENNA ID:** 2.4M

2.4 meters

DATA MARINE SYSTEMS

PRIME FOCUS

5925.0000 - 6425.0000 MHz

308KG7W

46.20 dBW

DIGITAL DATA AND VOICE

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3700.0000 - 4200.0000 MHz

308KG7W

DIGITAL DATA AND VOICE

**Points of Communication:**

1 - AMC-3 - (87 W.L.)

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**SES-MOD-20040924-01426** E E873910 RCN License Subsidiary, Inc.

Application for Modification

**Class of Station:** Temporary Fixed Earth Station

**Nature of Service:** Domestic Fixed Satellite Service

"MOD" to change emission designator and related service, to increase EIRP and EIRP density and to replace antenna.

SITE ID: 1

LOCATION: VARIOUS

ANTENNA ID: 1

4.1 meters

COMTECH

OFFSAT

5925.0000 - 6425.0000 MHz

36M0F3F

71.93 dBW

STANDARD VIDEO WITH  
ASSOCIATED AUDIO  
SUBCARRIERS

5925.0000 - 6425.0000 MHz

36M0G7W

71.93 dBW

BPSK, QPSK, 8PSK, QAM, FEC  
RATES 1/2-7/8, VARIOUS DATA  
RATES TO 45MBPS, VARIOUS  
INFORMATION

5925.0000 - 6425.0000 MHz

51K2G7W

54.30 dBW

BPSK, QPSK, 8PSK, QAM, FEC  
RATES 1/2-7/8, VARIOUS DATA  
RATES TO 64KBPS, VARIOUS  
INFORMATION

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-MOD-20040929-01473** E E030077 HELMERICH & PAYNE, INC.

Application for Modification

**Class of Station:** VSAT Network

**Nature of Service:** Domestic Fixed Satellite Service

"MOD" to modify their VSAT network to relocate their Hub 1 antenna to a new site and to expand the bandwidths of the emission designators. The network will continue to provide digital data services.

SITE ID: HUB 1

LOCATION: 6711 E. 41ST. STREET (3.7METER), TULSA, TULSA, OK

36 ° 6 ' 15.00 " N LAT.

95 ° 54 ' 8.00 " W LONG.

ANTENNA ID: AND 1

3.7 meters

ANDREW CORPORATION

ESA37

14000.0000 - 14500.0000 MHz	512KG1D	59.90 dBW	DIGITAL DATA
11700.0000 - 12200.0000 MHz	512KG1D		DIGITAL DATA
11700.0000 - 12200.0000 MHz	52K0G1D -		DIGITAL DATA
14000.0000 - 14500.0000 MHz	2M46G1D	66.70 dBW	DIGITAL DATA
14000.0000 - 14500.0000 MHz	20K2G1D-	45.80 dBW	DIGITAL DATA
11700.0000 - 12200.0000 MHz	2M46G1D		DIGITAL DATA
11700.0000 - 12200.0000 MHz	20K2G1D-		DIGITAL DATA

SITE ID: HUB 2  
LOCATION: 1437 SOUTH BOULDER AVENUE (3.7METER), TULSA, TULSA, OK  
36 ° 8 ' 29.90 " N LAT. 95 ° 59 ' 18.20 " W LONG.

ANTENNA ID: AND 2      3.7 meters      ANDREW CORPORATION      ESA37

14000.0000 - 14500.0000 MHz	512KG1D	59.90 dBW	DIGITAL DATA
11700.0000 - 12200.0000 MHz	512KG1D		DIGITAL DATA
11700.0000 - 12200.0000 MHz	52K0G1D -		DIGITAL DATA
14000.0000 - 14500.0000 MHz	2M46G1D	66.70 dBW	DIGITAL DATA
14000.0000 - 14500.0000 MHz	20K2G1D-	45.80 dBW	DIGITAL DATA
11700.0000 - 12200.0000 MHz	2M46G1D		DIGITAL DATA
11700.0000 - 12200.0000 MHz	20K2G1D-		DIGITAL DATA

SITE ID: REMOTE 1  
LOCATION: VSAT 1.8METER, CONUS, (400 UNITS)

ANTENNA ID: CM 1      1.8 meters      CHANNEL MASTER      1.8M

14000.0000 - 14500.0000 MHz	512KG1D	53.00 dBW	DIGITAL DATA
14000.0000 - 14500.0000 MHz	52K0G1D -	44.10 dBW	DIGITAL DATA
11700.0000 - 12200.0000 MHz	512KG1D		DIGITAL DATA
14000.0000 - 14500.0000 MHz	2M46G1D	53.00 dBW	DIGITAL DATA
14000.0000 - 14500.0000 MHz	20K2G1D-	40.00 dBW	DIGITAL DATA

11700.0000 - 12200.0000 MHz	2M46G1D	DIGITAL DATA
11700.0000 - 12200.0000 MHz	20K2G1D-	DIGITAL DATA

**Points of Communication:**

HUB 1 - ALSAT - (ALSAT)

HUB 2 - ALSAT - (ALSAT)

REMOTE 1 - ALSAT - (ALSAT)

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**SES-MOD-20040930-01476** E E940460 Hughes Network Systems, Inc.

Application for Modification

**Class of Station:** VSAT Network

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

This application requests modification of earth station authorization E940460 (SES-AMD-20020809-01369) to add as points of communication space stations Intelsat Americas 8 at 87 degrees W.L and Horizons-1 at 127 degrees W.L. No other changes are being requested by this modification application.

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

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11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
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11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
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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
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14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
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14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
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14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
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11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
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11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
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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
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14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	OQPSK, DATA, 256 KSPS, RETURN CARRIER
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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

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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

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11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
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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
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14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
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11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
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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
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14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DATA, 128 KSPS, RETURN CARRIER
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11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
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**Points of Communication:**

HUB 6.1M - ALSAT - (ALSAT)

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

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

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

HUB 7.6M - ALSAT - (ALSAT)

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

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

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

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

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

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

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

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

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

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

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

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

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

TR .74CM - HORIZONS 1 - (127 DEG WL)

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

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

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

TR .98CM - HORIZONS 1 - (127 DEG WL)

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

TR 1.0M - ALSAT - (ALSAT)

TR 1.0M - GALAXY 10R - (123 W.L.)

TR 1.0M - HORIZONS 1 - (127 DEG WL)

TR 1.0M - IA-8 - (89 W.L.)

TR 1.2M - ALSAT - (ALSAT)

TR 1.8M - ALSAT - (ALSAT)

TR 2.4M - ALSAT - (ALSAT)

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SES-MOD-20040930-01478 E E000166 Hughes Network Systems, Inc.

Application for Modification

**Class of Station:** VSAT Network

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

This application requests modification of earth station authorization E000166 (SES-LIC-20030409-00485) to add as points of communication space stations Intelsat Americas 8 at 87 degrees W.L, Galaxy 10-R at 123 degrees W.L. and Horizons-1 at 127 degrees W.L. No other changes are being requested by this modification application.

SITE ID: TF TR 1.2M

LOCATION: CONUS, AK, HI, PR, VI 1.2 M (50,000 UNITS)

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

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11700.0000 - 12200.0000 MHz      6M00G7D      QPSK, DATA, 5 MSPS,  
MULTIMEDIA BROADCAST  
CARRIER

SITE ID:      R1.2M  
LOCATION:      VSAT 1.2M (10 UNITS) CONUS, AK, HI, PR, VI

ANTENNA ID:   R1.2      1.2 meters      PRODELIN      1134

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:      Tx & Rx- 0.74M  
LOCATION:      VSAT 0.74M (98 x 56 cm) (350,000 UNITS), & VI, CONUS, AK, HI, PR

ANTENNA ID:   TR74      0.74 meters      PRODELIN      HANT-91TR

14000.0000 - 14500.0000 MHz      200KG7D      39.00 dBW      QPSK, DIGITAL, 128 KSPS,  
RETURN CARRIER

14000.0000 - 14500.0000 MHz      400KG7D      39.00 dBW      QPSK, DIGITAL, 256 KSPS,  
RETURN CARRIER

11700.0000 - 12200.0000 MHz      24M0G7D      0.00 dBW      QPSK, DATA, 20 MSPS,  
MULTIMEDIA BROADCAST  
CARRIER

11700.0000 - 12200.0000 MHz      36M0G7D      QPSK, DATA, 30 MSPS,  
MULTIMEDIA BROADCAST  
CARRIER

11700.0000 - 12200.0000 MHz      12M0G7D      QPSK, DATA, 10 MSPS,  
MULTIMEDIA BROADCAST  
CARRIER

11700.0000 - 12200.0000 MHz      6M00G7D      QPSK, DATA, 5 MSPS,  
MULTIMEDIA BROADCAST  
CARRIER

SITE ID:      Rx-only- 0.74M  
LOCATION:      VSAT 0.74M (98 x 56 cm) (1,000,000 UNITS), & VI, CONUS, AK, HI, PR

ANTENNA ID:   RO74      0.74 meters      PRODELIN      HANT-91R

11700.0000 - 12200.0000 MHz      24M0G7D      QPSK, DATA, 20 MSPS,  
MULTIMEDIA BROADCAST  
CARRIER

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11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
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SITE ID: TR 1.2M  
LOCATION: VSAT 1.2M (100,000 UNITS) CONUS, AK, HI, VI, PR

ANTENNA ID: TR 1.2	1.2 meters	PRODELIN CORP.	1134
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14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DIGITAL, 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	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID: TR 1.8	1.8 meters	PRODELIN CORP.	1184
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14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	QPSK, DIGITAL, 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	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: HUB-B

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

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

14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	53.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER

11700.0000 - 12200.0000 MHz	200KG7D	0.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER

SITE ID: TR 1.0M

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

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

14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	OQPSK, DIGITAL, 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	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

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11700.0000 - 11200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
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SITE ID: TR 98CM  
LOCATION: VSAT 0.98M (60,000 UNITS), CONUS, AK, HI, PR,VI

ANTENNA ID: TR98	0.98 meters	PRODELIN	9008668
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D	0.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID: TF TR 98	0.98 meters	PRODELIN	9008668
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D	0.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

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11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
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SITE ID: TF TR 74CM

LOCATION: VSAT 0.74M (98 x 56 cm) temporary-fixed (60,200 UNITS), CONUS, AK,HI,PR, VI

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

14000.0000 - 14500.0000 MHz	200KG7D	39.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	400KG7D	39.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
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11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
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SITE ID: HUB-A

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

ANTENNA ID: HubA7.6M      7.6 meters      ANDREW CORP.      ES76K-1

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

SITE ID: Rx-only- 0.66M

LOCATION: VSAT 0.66M (49 x 89 cm) (1,500,000 UNITS), & VI, CONUS, AK, HI, PR

ANTENNA ID: RO/0.66M      0.66 meters      CHANNEL MASTER      646101

11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: TR 2.4M

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

ANTENNA ID: TR 2.4      2.4 meters      PRODELIN CORP.      1244

14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	QPSK, DIGITAL, 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	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	400KG7D	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID: HubC 7.6M	7.6 meters	NEC	APS-12/14-F64A
14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	65.00 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	70.80 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER

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

ANTENNA ID: HubD 7.6M	7.6 meters	NEC	APS-12/14-F0764A
14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER

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

SITE ID: HUB-E 6.1M

LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD

39 ° 10 ' 46.00 " N LAT.

77 ° 14 ' 49.00 " W LONG.

ANTENNA ID: HubE 6.1M      6.1 meters      VERTEX      6.1KPK

14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	67.70 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	79.70 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	97.70 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DATA, 256 KSPS, RETURN CARRIER

11700.0000 - 12200.0000 MHz	200KG7D	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER

SITE ID: HUB-F 5.6M

LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD

39 ° 10 ' 46.00 " N LAT.

77 ° 14 ' 54.00 " W LONG.

ANTENNA ID: HubF 5.6M      5.6 meters      ANDREW      ES56-1

14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	67.70 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	77.70 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	77.70 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DATA, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 522 KSPS, INROUTE CARRIER



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

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

SITE ID: TR 75 CM  
 LOCATION: CONUS, AK, HI, PR, VI (10,000 .75CM UNITS)

ANTENNA ID:	TR 75 CM	0.75 meters	HUGHES NETWORK SYSTEMS	3000179	
	14000.0000 - 14500.0000 MHz		200KG7D	38.80 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz		400KG7D	38.80 dBW	BPSK OR MSK, DATA 256 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz		400KG7D		BPSK, DATA, 256, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz		1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz		6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz		12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID:	MESH 3.5M	3.5 meters	COMTECH	846400G1
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14000.0000 - 14500.0000 MHz	2M46G7D	66.20 dBW	BPSK OR QPSK, DATA, MESH CARRIER
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11700.0000 - 12200.0000 MHz	2M46G7D		BPSK OR QPSK, DATA, MESH CARRIER
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SITE ID: MESH 1.8M  
LOCATION: CONUS, AK, HI, PR, VI (5,000 1.8M UNITS)

ANTENNA ID: MESH 1.8M      1.8 meters      HUGHES NETWORK SYSTEMS      PES-RFT-180

14000.0000 - 14500.0000 MHz	156KG7D	48.60 dBW	BPSK OR QPSK, DATA, MESH CARRIER
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11700.0000 - 12200.0000 MHz	156KG7D		BPSK OR QPSK, DATA, MESH CARRIER
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SITE ID: MESH 2.4M  
LOCATION: CONUS, AK, HI, PR, VI (5,000 2.4M UNITS)

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

14000.0000 - 14500.0000 MHz	307KG7D	53.70 dBW	BPSK OR QPSK, DATA, MESH CARRIER
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11700.0000 - 12200.0000 MHz	307KG7D		BPSK OR QPSK, DATA, MESH CARRIER
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SITE ID: MESH 1.2M  
LOCATION: CONUS, AK, HI, PR, VI (5,000 1.2M UNITS)

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

14000.0000 - 14500.0000 MHz	156KG7D	45.00 dBW	BPSK OR QPSK, DATA, MESH CARRIER
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11700.0000 - 12200.0000 MHz	156KG7D		BPSK OR QPSK, DATA, MESH CARRIER
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**Points of Communication:**

HUB-A - ALSAT - (ALSAT)

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

HUB-A - HORIZONS 1 - (127 DEG WL)

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

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

HUB-B - ALSAT - (ALSAT)

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

HUB-B - HORIZONS 1 - (127 DEG WL)

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

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

HUB-C 7.6M - ALSAT - (ALSAT)

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

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

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

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

HUB-D 7.6M - ALSAT - (ALSAT)

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

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

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

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

HUB-E 6.1M - ALSAT - (ALSAT)

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

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

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

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

HUB-F 5.6M - ALSAT - (ALSAT)

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

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

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

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

HUB-G 4.6M - ALSAT - (ALSAT)

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

MESH 1.2M - ALSAT - (ALSAT)

MESH 1.8M - ALSAT - (ALSAT)

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MESH 2.4M - ALSAT - (ALSAT)

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

Rx-only- 0.66M - SATMEX-5 - (116.8 W.L.)

Rx-only- 0.74M - SATMEX-5 - (116.8 W.L.)

TF TR 1.2M - ALSAT - (ALSAT)

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

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

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

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

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

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

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

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

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

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

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

TF TR 98CM - GALAXY 4R - (99 W.L.)

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

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

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

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

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

TR 1.0M - ALSAT - (ALSAT)

TR 1.0M - SATMEX-5 - (116.8 W.L.)

TR 1.2M - ALSAT - (ALSAT)

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

TR 1.8M - ALSAT - (ALSAT)

TR 1.8M - SATMEX-5 - (116.8 W.L.)

TR 2.4M - ALSAT - (ALSAT)

TR 2.4M - SATMEX-5 - (116.8 W.L.)

TR 75 CM - ALSAT - (ALSAT)

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

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

TR 98CM - GALAXY 4R - (99 W.L.)

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

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

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

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

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

Tx & Rx- 0.74M - AMC-3 - (87 W.L.)

Tx & Rx- 0.74M - GALAXY 10R - (123 W.L.)

Tx & Rx- 0.74M - GALAXY 4R - (99 W.L.)

Tx & Rx- 0.74M - GALAXY III-C - (95 W.L.)

Tx & Rx- 0.74M - GALAXY XI - (91 W.L.)

Tx & Rx- 0.74M - HORIZONS 1 - (127 DEG WL)

Tx & Rx- 0.74M - IA-8 - (89 W.L.)

Tx & Rx- 0.74M - SATMEX-5 - (116.8 W.L.)

**SES-MOD-20041001-01481** E E030080 iDirect, Inc.

Application for Modification

**Class of Station:** VSAT Network

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

"MOD" of existing VSAT network license to change the location of the hub station by an approximate distance of 26,725 feet west of the original location. All technical characteristics of the hub station remain unchanged. No change will be effected to any of the remote terminals in the network.

SITE ID: HUB

LOCATION: 13865 SUNRISE VALLEY DRIVE (2.4M.), FAIRFAX, HERNDON, VA  
 38 ° 57 ' 0.00 " N LAT. 77 ° 25 ' 16.00 " W LONG.

ANTENNA ID: HUB-A 2.4 meters PRODELIN 1244

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14000.0000 - 14500.0000 MHz	2M50G7W	58.20 dBW	QPSK, DIGITAL DATA, VIDEO, VOICE
11700.0000 - 12200.0000 MHz	405KG7W		QPSK, DIGITAL DATA, VIDEO, VOICE
11700.0000 - 12200.0000 MHz	8M00G7W		QPSK, DIGITAL DATA, VIDEO, VOICE
11700.0000 - 12200.0000 MHz	2M50G7W		QPSK, DIGITAL DATA, VIDEO, VOICE
ANTENNA ID: Remote 1A	1.2 meters	Channel Master	Type 123
14000.0000 - 14500.0000 MHz	405KG7W	49.30 dBW	QPSK, DIGITAL DATA, VIDEO, VOICE
14000.0000 - 14500.0000 MHz	8M00G7W	49.30 dBW	QPSK, DIGITAL DATA, VIDEO, VOICE
11700.0000 - 12200.0000 MHz	2M50G7W		QPSK, DIGITAL DATA, VIDEO, VOICE
ANTENNA ID: Remote 2A	1.8 meters	Channel Master	Type 184
14000.0000 - 14500.0000 MHz	405KG7W	52.57 dBW	QPSK, DIGITAL DATA, VIDEO, VOICE
14000.0000 - 14500.0000 MHz	8M00G7W	52.60 dBW	QPSK, DIGITAL DATA, VIDEO, VOICE
11700.0000 - 12200.0000 MHz	2M50G7W		QPSK, DIGITAL DATA, VIDEO, VOICE
ANTENNA ID: Remote 3A	2.4 meters	Channel Master	Type 244
14000.0000 - 14500.0000 MHz	405KG7W	55.10 dBW	QPSK, DIGITAL DATA, VIDEO, VOICE
14000.0000 - 14500.0000 MHz	8M00G7W	55.10 dBW	QPSK, DIGITAL DATA, VIDEO, VOICE

**Points of Communication:**

HUB - ALSAT - (ALSAT)

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**SES-MOD-20041004-01487** E E030159 IWL COMMUNICATIONS INC DBA CAPROCK SERVICES CORP

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Domestic Fixed Satellite Service

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"MOD" to add new emission designator and related service, to increase EIRP and EIRP density and to add points of communications.

SITE ID: 1  
LOCATION: Offshore Louisiana, N/A, Gulf of Mexico  
27 ° 18 ' 19.00 " N LAT. 93 ° 32 ' 20.00 " W LONG.

ANTENNA ID: 1	2.4 meters	SEATEL	9797
5925.0000 - 6425.0000 MHz	1M00G1W	48.97 dBW	Digital Data, QPSK
3700.0000 - 4200.0000 MHz	1M00G1W		Digital Data, QPSK
5925.0000 - 6425.0000 MHz	300KG1W	43.50 dBW	DIGITAL DATA QPSK
3700.0000 - 4200.0000 MHz	300KG1W		DIGITAL DATA QPSK

**Points of Communication:**

1 - AMC-9 - (83 W.L.)  
1 - PAS-9 - (58.0 W.L.)

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**SES-REG-20041005-01495** E E040392 NORTHERN NEW MEXICO RADIO FOUNDATION  
Registration

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Domestic Fixed Satellite Service

SITE ID: 1  
LOCATION: 6401 SOUTH RICHARDS AVENUE (KSFR-FM), SANTA FE, SANTA FE, NM  
35 ° 36 ' 18.00 " N LAT. 105 ° 50 ' 50.00 " W LONG.

ANTENNA ID: 3.6M.	3.6 meters	DH ANTENNA	SPUN ALUMINUM SOLID
3700.0000 - 4200.0000 MHz	10M3G7W		DIGITAL BROADCAST AUDIO CARRIER
3700.0000 - 4200.0000 MHz	30K0F1D		DIGITAL BROADCAST AUDIO CARRIER

**Points of Communication:**

1 - ALSAT - (ALSAT)

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