



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-00426

Wednesday September 11, 2002

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.

SES-AMD-20020809-01369 P E940460 HUGHES NETWORK SYSTEMS, INC.

Amendment

Class of Station: VSAT Network

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

This application requests an amendment to the pending application to modify earth station E940460. In addition to requesting authority to add a 4.6 meter co-located antenna to this authorized 6.1 meter hub, this amendment requests authority to add new emission designators. This hub operates with the remote terminals authorized under call signs E890426, E890427, E890428, and E950471.

SITE ID: HUB 6.1 M

LOCATION: 5757 West Century Blvd., LOS ANGELES, LOS ANGELES, CA

33 ° 56 ' 46.00 " N LAT.

118 ° 22 ' 56.00 " W LONG.

| ANTENNA ID: | ANT-6.1M | 6.1 meters | VERTEX | 6.1 KPK |
|-------------|-----------------------------|------------|-----------|---------------------------------|
| | 14000.0000 - 14500.0000 MHz | 307KG7D | 59.80 dBW | BPSK, DATA, 256 KSPS, OUTROUTE |
| | 14000.0000 - 14500.0000 MHz | 1M23G7D | 65.80 dBW | BPSK, DATA, 1024 KSPS, OUTROUTE |
| | 14000.0000 - 14500.0000 MHz | 3M96G7D | 71.90 dBW | QPSK DIGITAL VIDEO CARRIER |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 614KG7D | 62.80 dBW | QPSK, DATA, 512 KSPS, OUTROUTE |
| 14000.0000 - 14500.0000 MHz | 36M0F8F | 73.30 dBW | FM ANALOG VIDEO CARRIER |
| 11700.0000 - 12200.0000 MHz | 614KG7D | | BPSK, DATA, 256 KBPS, INROUTE |
| 11700.0000 - 12200.0000 MHz | 307KG7D | | BPSK, DATA, 128 KBPS, INROUTE |
| 11700.0000 - 12200.0000 MHz | 154KG7D | | BPSK, DATA, 64 KBPS, INROUTE |

SITE ID: HUB 4.6M
LOCATION: 5757 WEST CENTURY BLVD., SUITE 810, LOS ANGELES, LOS ANGELES, CA
33 ° 56 ' 46.00 " N LAT. 118 ° 22 ' 56.00 " W LONG.

ANTENNA ID: ANT-4.6M 4.6 meters ANDREW CORP. ES 46

| | | | |
|-----------------------------|---------|-----------|------------------------------------|
| 14000.0000 - 14500.0000 MHz | 307KG7D | 59.80 dBW | BPSK, DATA, 256 KSPS, OUTROUTE |
| 14000.0000 - 14500.0000 MHz | 614KG7D | 62.80 dBW | QPSK, DATA, 512 KSPS, OUTROUTE |
| 14000.0000 - 14500.0000 MHz | 1M23G7D | 65.80 dBW | BPSK, DATA, 1024 KSPS, OUTROUTE |
| 11700.0000 - 12200.0000 MHz | 614KG7D | | BPSK, DATA, 256 KBPS, INROUTE |
| 11700.0000 - 12200.0000 MHz | 307KG7D | | BPSK, DATA, 128 KBPS, INROUTE |
| 11700.0000 - 12200.0000 MHz | 154KG7D | | BPSK, DATA, 64 KBPS, INROUTE |
| 14000.0000 - 14500.0000 MHz | 3M96G7D | 71.90 dBW | QPSK DIGITAL VIDEO CARRIER |
| 14000.0000 - 14500.0000 MHz | 36M0F8F | 73.30 dBW | FM ANALOG VIDEO CARRIER |

Points of Communication:

HUB 4.6M - ALSAT - (ALSAT)

HUB 6.1 M - ALSAT - (ALSAT)

SES-ASG-20020822-01448 E E950171 SunGard NetWork Solutions Inc.

Application for Consent to Assignment

Current Licensee: COMDISCO DISASTER RECOVERY SERVICES INC

FROM: COMDISCO, INC.

TO: SunGard NetWork Solutions Inc.

No. of Station(s) listed: 1

SES-LIC-20020823-01400 E E020228 MCGRAW-HILL COMPANIES, INC.

Application for Authority

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: Uplink Truck

LOCATION: 4600 AIR WAY, SAN DIEGO, CA 92102 (KGTU), VARIOUS

| | | | |
|-----------------------------|------------|----------------|-------------------------------|
| ANTENNA ID: 1 | 1.2 meters | AVL TECHNOLOGY | 1200USA |
| 14000.0000 - 14500.0000 MHz | 6M00G7F | 59.64 dBW | COMPRESSED DIGITAL TELEVISION |
| 14000.0000 - 14500.0000 MHz | 4M00G7F | 57.90 dBW | COMPRESSED DIGITAL TELEVISION |
| 14000.0000 - 14500.0000 MHz | 2M00G7F | 54.91 dBW | COMPRESSED DIGITAL TELEVISION |
| 14000.0000 - 14500.0000 MHz | 16M0G7F | 62.51 dBW | COMPRESSED DIGITAL TELEVISION |
| 14000.0000 - 14500.0000 MHz | 8M00G7F | 60.92 dBW | COMPRESSED DIGITAL TELEVISION |

Points of Communication:

Uplink Truck - ALSAT - (ALSAT)

SES-LIC-20020826-01416 E E020231 STATE RADIO COMMUNICATIONS

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: FIXED 1

LOCATION: 700 EAST BROADWAY AVE., PIERRE, SD

44 ° 22 ' 16.00 " N LAT.

100 ° 16 ' 23.00 " W LONG.

| | | | |
|-----------------------------|------------|-----------|-----------------------------------|
| ANTENNA ID: A1 | 2.4 meters | PRODELIN | 1255 |
| 14000.0000 - 14500.0000 MHz | 560KG7D | 55.20 dBW | QPSK DIGITAL (MINIMUM DATA RATE) |
| 14000.0000 - 14500.0000 MHz | 1M55G7D | 55.20 dBW | QPSK DIGITAL (MAXIMUM DATA RATE) |
| 11700.0000 - 12200.0000 MHz | 1M55G7D | | QPSK DIGITAL (MAXIMUM DATA RATE) |

| | | | |
|-----------------------------|---------|--|-----------------------------------|
| 11700.0000 - 12200.0000 MHz | 560KG7D | | QPSK DIGITAL (MINIMUM DATA RATE) |
|-----------------------------|---------|--|-----------------------------------|

Points of Communication:

FIXED 1 - ALSAT - (ALSAT)

SES-LIC-20020828-01434 E E020235 KCRA HEARST-ARGLE TELEVISION, INC.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 3 TELEVISION CIRCLE KCRA, SACRAMENTO, SACRAMENTO, CA
38 ° 35 ' 16.00 " N LAT. 121 ° 29 ' 32.00 " W LONG.

| | | | |
|-----------------------------|------------|-----------|---------------------------------|
| ANTENNA ID: 1 | 3.8 meters | PRODELIN | 1383 |
| 11700.0000 - 12200.0000 MHz | 1M00G7W | | QPSK 1,000 KBPS 3/4 FEC WITH RS |
| 14000.0000 - 14500.0000 MHz | 5M25G7W | 62.10 dBW | QPSK 5,500 KBPS 3/4 FEC WITH RS |
| 11700.0000 - 12200.0000 MHz | 5M25G7W | | WPSK 5,500 KBPS 3/4 FEC WITH RS |
| 14000.0000 - 14500.0000 MHz | 1M00G7W | 54.60 dBW | QPSK 1,000 KBPS 3/4 FEC WITH RS |

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20020828-01435 E E020236 WCVB HEARST-ARGYLE TELEVISION, INC.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 5 TV PLACE WCVB, NORFOLK, NEEDHAM, MA
42 ° 18 ' 14.00 " N LAT. 71 ° 13 ' 42.00 " W LONG.

| | | | |
|-----------------------------|------------|-----------|----------------------------------|
| ANTENNA ID: 1 | 3.8 meters | PRODELIN | 1383 |
| 14000.0000 - 14500.0000 MHz | 1M00G7W | 54.60 dBW | QPSK 1, 000 KBPS 3/4 FEC WITH RS |
| 11700.0000 - 12200.0000 MHz | 1M00G7W | | QPSK 1, 000 KBPS 3/4 FEC WITH RS |

| | | | |
|-----------------------------|---------|-----------|---------------------------------|
| 14000.0000 - 14500.0000 MHz | 5M25G7W | 62.10 dBW | QPSK 5,500 KBPS 3/4 FEC WITH RS |
| 11700.0000 - 12200.0000 MHz | 5M25G7W | | QPSK 5,500 KBPS 3/4 FEC WITH RS |

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20020828-01436 E E020237 WGAL HEARST-ARGYLE TELEVISION INC

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 1300 COLUMBIA AVE. WGAL, LANCASTER, LANCASTER, PA
 40 ° 2 ' 15.00 " N LAT. 76 ° 20 ' 17.00 " W LONG.

ANTENNA ID: 1 3.8 meters PRODELIN 1383

| | | | |
|-----------------------------|---------|-----------|---------------------------------|
| 14000.0000 - 14500.0000 MHz | 1M00G7W | 54.60 dBW | QPSK 1,000 KBPS 3/4 FEC WITH RS |
| 11700.0000 - 12200.0000 MHz | 1M00G7W | | QPSK 1,000 KBPS 3/4 FEC WITH RS |
| 14000.0000 - 14500.0000 MHz | 5M25G7W | 62.10 dBW | QPSK 5,500 KBPS 3/4 FEC WITH RS |
| 11700.0000 - 12200.0000 MHz | 5M25G7W | | QPSK 5,500 KBPS 3/4 FEC WITH RS |

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20020829-01460 P E020241 Hughes Network Systems, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

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

SITE ID: CANOGA PARK

LOCATION: 8900 DESOTO AVENUE, LOS ANGELES, CANOGA PARK, CA
 34 ° 15 ' 10.30 " N LAT. 118 ° 35 ' 39.10 " W LONG.

ANTENNA ID: ANT-13 13 meters VERTEX 1514C-0100

| | | | |
|-----------------------------|---------|-----------|---|
| 19700.0000 - 20200.0000 MHz | 106KG9D | 0.00 dBW | COMPOSITE TELEMETRY/RANGING SIGNAL |
| 29500.0000 - 30000.0000 MHz | 1M30F9D | 50.00 dBW | COMPOSITE MODULATED COMMAND/RANGING SIGNAL |

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|-----------------------------|----------|---------|---|
| ANTENNA ID: ANT-8 | 8 meters | VERTEX | 1514L-0100 |
| 19700.0000 - 20200.0000 MHz | | 106KG9D | COMPOSITE TELEMETRY/RANGING SIGNAL |
| 29500.0000 - 30000.0000 MHz | | 1M30F9D | 50.00 dBW |
| | | | COMPOSITE MODULATED COMMAND/RANGING SIGNAL |

Points of Communication:

CANOGA PARK - ALSAT - (ALSAT)

SES-LIC-20020829-01461 P E020242 Hughes Network Systems, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: LITTLETON

LOCATION: 7235 W. TITAN ROAD, DOUGLAS, LITTLETON, CO

39 ° 30 ' 52.00 " N LAT.

105 ° 1 ' 30.00 " W LONG.

| | | | |
|-----------------------------|----------|---------|---|
| ANTENNA ID: ANT-8 | 8 meters | VERTEX | 1514L-01-00 |
| 19700.0000 - 20200.0000 MHz | | 106KG9D | COMPOSITE TELEMETRY/RANGING SIGNAL |
| 29500.0000 - 30000.0000 MHz | | 1M30F9D | 50.00 dBW |
| | | | COMPOSITE MODULATED COMMAND/RANGING SIGNAL |
| 29500.0000 - 30000.0000 MHz | | NON | 53.10 dBW |
| | | | UNMODULATED CW CARRIER |

Points of Communication:

LITTLETON - ALSAT - (ALSAT)

SES-LIC-20020903-01449 E E020240 KWGN INC.

Application for Authority

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: VARIOUS

| | | | |
|-----------------------------|------------|---------|---|
| ANTENNA ID: 1 | 1.5 meters | VERTEX | 1.5SMK-LT |
| 14000.0000 - 14500.0000 MHz | | 24M0G7F | 62.24 dBW |
| | | | PSK DIGITAL VIDEO W/DIGITAL AUDIO/DATA |

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20020806-01284 P E000035 SPACENET SERVICES LICENSE SUB INC

Application for Modification

Class of Station: VSAT Network

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

Modification filed to add 500,000 remotes, to add GE-2 @ 85 degrees WL, GE-6 @ 72 or 81 degrees WL as points of communication, and to add another remote control point.

This modification seeks to add 0.75 meter remote earth station terminals to operate on a temporary-fixed basis with a quantity of 10,000 units. The temporary-fixed terminals have identical electrical performance as the currently authorized 0.75 meter terminals. Spacenet intends to use the temporary-fixed terminals to expand its offering of broadband communication and networking services to consumers and businesses.

SITE ID: REMOTE

LOCATION: {VSAT Network w. slotted Aloha access} (500,000)0.75M(0.89 X 0.62) RU, CONUS,AK, HI, PR, VI

| ANTENNA ID: | 0.75M | 0.75 meters | CHANNEL MASTER | 75E |
|-------------|-----------------------------|-------------|----------------|---|
| | 14000.0000 - 14500.0000 MHz | 100KG7D | 35.50 dBW | 38.4 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 100 KHZ BANDWIDTH, DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 60K0G7D | 35.50 dBW | 38.4 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 60 KHZ BANDWIDTH DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 200KG7D | 38.50 dBW | 76.8 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 200 KHZ BANDWIDTH, DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 120KG7D | 38.50 dBW | 76.8 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 120 KHZ BANDWIDTH, DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 400KG7D | 38.50 dBW | 153.6KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 400 KHZ BANDWIDTH, DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 240KG7D | 38.50 dBW | 153.6 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 240 KHZ BANDWIDTH, DIGITAL CARRIER |

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|-----------------------------|---------|-----------|--|
| 14000.0000 - 14500.0000 MHz | 800KG7D | 38.50 dBW | 307.2 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 800 KHZ BANDWIDTH, DIGITAL CARRIER |
| 14000.0000 - 14500.0000 MHz | 480KG7D | 38.50 dBW | 307.2 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 480 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 425KG7D | | 128 KBPS, 1/2 RATE FEC, BPSK MODULATION, 425 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 400KG7D | | 256 KBPS, 1/2 RATE FEC, QPSK MODULATION, 400 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 800KG7D | | 256 KBPS, 1/2 RATE FEC, BPSK MODULATION, 800 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 600KG7D | | 384 KBPS, 1/2 RATE FEC, QPSK MODULATION, 600 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 1M20G7D | | 384 KBPS, 1/2 RATE FEC, BPSK MODULATION, 1,200 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 800KG7D | | 512 KBPS, 1/2 RATE FEC, QPSK MODULATION, 800 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 1M60G7D | | 512 KBPS, 1/2 RATE FEC, BPSK MODULATION, 1,600 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 1M20G7D | | 768 KBPS, 1/2 RATE FEC, QPSK MODULATION, 1,200 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | | 768 KBPS, 1/2 RATE FEC, BPSK MODULATION, 2,400 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 1M60G7D | | 1,024 KBPS, 1/2 RATE FEC, QPSK MODULATION, 1,600 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 3M20G7D | | 1,024 KBPS, 1/2 RATE FEC, BPSK MODULATION, 3,200 KHZ BANDWIDTH, DIGITAL CARRIER |

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|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 2M40G7D | 1,536 KBPS, 1/2 RATE FEC, QPSK MODULATION, 2,400 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 4M80G7D | 1,536 KBPS, 1/2 RATE FEC, BPSK MODULATION, 4,800 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 3M20G7D | 2,048 KBPS, 1/2 RATE FEC, QPSK MODULATION, 3,200 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 6M40G7D | 2,048 KBPS, 1/2 RATE FEC, BPSK MODULATION, 6,400 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 6M10G7D | 3,500 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 6,100 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 8M10G7D | 6,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 8,100 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 10M8G7D | 8,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 10,800 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 16M2G7D | 12,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 16,200 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 21M6G7D | 16,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 21,600 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | 26,700 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 43M2G7D | 32,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 43,200 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 54M0G7D | 40,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 54,000 KHZ BANDWIDTH, DIGITAL CARRIER |

SITE ID: Remote TF 75E
LOCATION: CONUS, AK, HI, PR, VI .75 METER (10,000 UNITS)

| ANTENNA ID: | TF 75E | 0.75 meters | CHANNEL MASTER | 75E |
|-------------|-----------------------------|-------------|----------------|---|
| | 14000.0000 - 14500.0000 MHz | 60KG7D | 35.50 dBW | 38.4 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 60 KHZ BANDWIDTH DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 120KG7D | 38.50 dBW | 76.8 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 120 KHZ BANDWIDTH DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 100KG7D | 35.50 dBW | 38.4 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 100 KHZ BANDWIDTH DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 200KG7D | 38.50 dBW | 76.8 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 200 KHZ BANDWIDTH DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 240KG7D | 38.50 dBW | 153.6 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 240 KHZ BANDWIDTH DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 400KG7D | 38.50 dBW | 153.6 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 400 KHZ BANDWIDTH DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 480KG7D | 38.50 dBW | 307.2 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 480 KHZ BANDWIDTH DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 800KG7D | 38.50 dBW | 307.2 KBPS, 1/2 RATE FEC, BPSK MODULATION (BPSK VARIANT), 800 KHZ BANDWIDTH DIGITAL CARRIER |
| | 11700.0000 - 12200.0000 MHz | 400KG7D | | 256 KBPS, 1/2 RATE FEC, QPSK MODULATION, 400 KHZ BANDWIDTH DIGITAL CARRIER |
| | 11700.0000 - 12200.0000 MHz | 425KG7D | | 128 KBPS, 1/2 RATE FEC, BPSK MODULATION, 425 KHZ BANDWIDTH DIGITAL CARRIER |

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|-----------------------------|---------|--|
| 11700.0000 - 12200.0000 MHz | 600KG7D | 384 KBPS, 1/2 RATE FEC, QPSK MODULATION, 600 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 800KG7D | 256 KBPS, 1/2 RATE FEC, BPSK MODULATION, 800 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 800KG7D | 512 KBPS, 1/2 RATE FEC, QPSK MODULATION, 800 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 1M20G7D | 384 KBPS, 1/2 RATE FEC, BPSK MODULATION, 1,200 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 1M20G7D | 768 KBPS, 1/2 RATE FEC, QPSK MODULATION, 1,200 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 1M60G7D | 512 KBPS, 1/2 RATE FEC, BPSK MODULATION, 1,600 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | 768 KBPS, 1/2 RATE FEC, BPSK MODULATION, 2,400 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 1M60G7D | 1,024 KBPS, 1/2 RATE FEC, QPSK MODULATION, 1,600 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 2M40G7D | 1,536 KBPS, 1/2 RATE FEC, QPSK MODULATION, 2,400 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 3M20G7D | 1,024 KBPS, 1/2 RATE FEC, BPSK MODULATION, 3,200 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 3M20G7D | 2,048 KBPS, 1/2 RATE FEC, QPSK MODULATION, 3,200 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 4M80G7D | 1,536 KBPS, 1/2 RATE FEC, BPSK MODULATION, 4,800 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 6M40G7D | 2,048 KBPS, 1/2 RATE FEC, BPSK MODULATION, 6,400 KHZ BANDWIDTH DIGITAL CARRIER |

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|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 6M10G7D | 3,500 KBPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 6,100 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 8M10G7D | 6,000 KBPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 8,100 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 10M8G7D | 8,000 KBPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 10,800 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 16M2G7D | 12,000 KBPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 16,200 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 21M6G7D | 16,000 KBPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 21,600 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | 26,700 KBPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 36,000 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 43M2G7D | 32,000 KBPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 43,200 KHZ BANDWIDTH DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 54M0G7D | 40,000 KBPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 54,000 KHZ BANDWIDTH DIGITAL CARRIER |

Points of Communication:

REMOTE - GE GSTAR 4 - (105 W.L.)

REMOTE - GE-2 - (85 W.L.)

REMOTE - GE-4 - (101 W.L.)

REMOTE - GE-5 - (79 W.L.)

REMOTE - GE-6 - (81 WL)

REMOTE - TELSTAR 7 - (129 W.L.)

Remote TF 75E - GE GSTAR 4 - (105 W.L.)

Remote TF 75E - GE-2 - (85 W.L.)

Remote TF 75E - GE-4 - (101 W.L.)

Remote TF 75E - GE-5 - (79 W.L.)

Remote TF 75E - GE-6 - (81 WL)

Remote TF 75E - TELSTAR 7 - (129 W.L.)

SES-MOD-20020808-01356 P E970067 Hughes Network Systems, Inc.

Application for Modification

Class of Station: VSAT Network

Nature of Service: Domestic Fixed Satellite Service

This application requests modification of Earth Station E970067 to add 25,000 1.2 meter transmit/receive remote terminals and 25,000 0.98 meter transmit/receive remote terminals to this authorized VSAT network to operate on a temporary-fixed basis. In addition, this application requests an increase in the number of 0.74 meter temporary-fixed transmit/receive remote terminals from 200 to 25,200. This application also requests a correction in the latitude and longitude of Hub A and Hub B.

SITE ID: TF TR 1.2M

LOCATION: CONUS, AK, HI, PR, VI 1.2M (25,000 UNITS)

| ANTENNA ID: | TF TR 1.2 | 1.2 meters | PRODELIN | 1134 |
|-------------|-----------------------------|------------|-----------|--|
| | 14000.0000 - 14500.0000 MHz | 120KG7D | 43.10 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER |
| | 14000.0000 - 14500.0000 MHz | 240KG7D | 46.10 dBW | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| | 14000.0000 - 14500.0000 MHz | 480KG7D | 46.10 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| | 11700.0000 - 12200.0000 MHz | 24M0G7D | | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| | 11700.0000 - 12200.0000 MHz | 36M0G7D | | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |

SITE ID: H56

LOCATION: 11717 EXPLORATION LANE (5.6M HUB), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 46.00 " N LAT. 77 ° 14 ' 54.00 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------------|--|
| ANTENNA ID: | Hub5.6M | 5.6 meters | ANDREW CORPORATION | MODEL ES56-1 |
| | 14000.0000 - 14500.0000 MHz | 3M96G7D | 72.80 dBW | two-way DirecPC service |
| | 14000.0000 - 14500.0000 MHz | 24M0G7D | 77.70 dBW | two-way DirecPC service |
| | 14000.0000 - 14500.0000 MHz | 36M0G7D | 74.50 dBW | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6 OR 7/8 RATE FEC QPSK, 36,000 kHz BANDWIDTH, DIGITAL CARRIER, two-way DirecPC service |
| | 11700.0000 - 12200.0000 MHz | 3M96G7D | | two-way DirecPC service |
| | 11700.0000 - 12200.0000 MHz | 24M0G7D | | two-way DirecPC service |
| | 11700.0000 - 12200.0000 MHz | 120KG7D | | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHz BANDWIDTH DIGITAL CARRIER, two-way DirecPC service |
| | 11700.0000 - 12200.0000 MHz | 240KG7D | | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 kHz BANDWIDTH DIGITAL CARRIER, two-way DirecPC service |
| | 11700.0000 - 12200.0000 MHz | 480KG7D | | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 kHz BANDWIDTH, DIGITAL CARRIER, two-way DirecPC service |

SITE ID: TF TR-74 CM

LOCATION: VSAT remote (0.74 METER) (70,000) 0.74-meter (98x56cm), CONUS, AK,HI,PR,VI

| | | | | |
|-------------|-----------------------------|-------------|-----------|---|
| ANTENNA ID: | 0.74MTR | 0.74 meters | PRODELIN | HANT-91TR |
| | 14000.0000 - 14500.0000 MHz | 120KG7D | 39.20 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHz BANDWIDTH DIGITAL CARRIER, two-way DirecPC service |
| | 14000.0000 - 14500.0000 MHz | 240KG7D | 39.20 dBW | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 kHz BANDWIDTH DIGITAL CARRIER, two-way DirecPC service |
| | 14000.0000 - 14500.0000 MHz | 480KG7D | 39.20 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 kHz BANDWIDTH, DIGITAL CARRIER, two-way DirecPC service |

| | | |
|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 24M0G7D | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6 OR 7/8 RATE FEC QPSK, 24,000 kHz BANDWIDTH, DIGITAL CARRIER, two-way DirecPC service |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 kHz BANDWIDTH, DIGITAL CARRIER, two-way DirecPC service |

SITE ID: HUB-B
LOCATION: 11717 EXPLORATION LANE (7.6M HUB) (authorized under E000166), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 46.00 " N LAT. 77 ° 14 ' 41.00 " W LONG.

| | | | |
|-----------------------------|------------|--------------------|--|
| ANTENNA ID: HUB-B | 7.6 meters | ANDREW CORPORATION | 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 |
| 11700.0000 - 12200.0000 MHz | 120KG7D | | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 240KG7D | | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 480KG7D | | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER |

SITE ID: Temp-Fxied TR 74CM
LOCATION: 200 temporary-fixed VSAT remote 0.74m effective (98x56cm), CONUS, AK,HI,PR,VI

| | | | |
|-----------------------------|-------------|-----------|--|
| ANTENNA ID: TF0.74TR | 0.74 meters | PRODELIN | HANT-91TR |
| 14000.0000 - 14500.0000 MHz | 120KG7D | 39.20 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER, Data service |
| 14000.0000 - 14500.0000 MHz | 240KG7D | 39.20 dBW | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER, Data service |
| 14000.0000 - 14500.0000 MHz | 480KG7D | 39.20 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER, Data service |

| | | |
|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 24M0G7D | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER, Data service |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER, Data service |

SITE ID: HUB-A
LOCATION: 11717 EXPLORATION LANE (7.6M Hub) (authorized under E000166), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 49.00 " N LAT. 77 ° 14 ' 47.00 " W LONG.

| | | | |
|-----------------------------|------------|--------------------|--|
| ANTENNA ID: HUB-A | 7.6 meters | ANDREW CORPORATION | 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 |
| 11700.0000 - 12200.0000 MHz | 120KG7D | | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 240KG7D | | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER |
| 11700.0000 - 12200.0000 MHz | 480KG7D | | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER |

SITE ID: TR 98 CM
LOCATION: VSAT 0.98-meter CONUS, AK, HI, PR, VI (3000 UNITS)

| | | | |
|-----------------------------|-------------|-----------|---|
| ANTENNA ID: TR98 | 0.98 meters | PRODELIN | 9008668 |
| 14000.0000 - 14500.0000 MHz | 120KG7D | 41.50 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| 14000.0000 - 14500.0000 MHz | 240KG7D | 41.50 dBW | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |

| | | | |
|-----------------------------|---------|-----------|--|
| 14000.0000 - 14500.0000 MHz | 480KG7D | 41.50 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |

Points of Communication:

- H56 - ALSAT - (ALSAT)
- H56 - GALAXY XI - (91 W.L.)
- HUB-A - ALSAT - (ALSAT)
- HUB-B - ALSAT - (ALSAT)
- Temp-Fxied TR 74CM - GALAXY XI - (91 W.L.)
- TF TR 1.2M - ALSAT - (ALSAT)
- TF TR-74 CM - GALAXY XI - (91 W.L.)
- TR 98 CM - GALAXY XI - (91 W.L.)

SES-MOD-20020808-01357 P E000166 HUGHES NETWORK SYSTEMS, INC.
 Application for Modification
Class of Station: VSAT Network

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

This application requests modification to add 25,000 1.2 meter transmit/receive remote terminals to this authorized VSAT network to operate on a temporary-fixed basis. In addition, this application requests an increase in the number of 0.98 meter temporary-fixed transmit/receive remote terminals from 4,000 to 29,000 and an increase in the number of 0.74 meter temporary-fixed transmit/receive remote terminals from 10,000 to 35,000. This application also requests a correction in the latitude and longitude of Hub A and Hub B.

SITE ID: TF TR 1.2M
 LOCATION: CONUS, AK, HI, PR, VI 1.2 M (25,000 UNITS)

ANTENNA ID: TF TR 1.2 1.2 meters PRODELIN 1134

| | | | |
|-----------------------------|---------|-----------|---|
| 14000.0000 - 14500.0000 MHz | 120KG7D | 43.10 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
|-----------------------------|---------|-----------|---|

| | | | |
|-----------------------------|---------|-----------|--|
| 14000.0000 - 14500.0000 MHz | 240KG7D | 46.10 dBW | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| 14000.0000 - 14500.0000 MHz | 480KG7D | 46.10 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |

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

| | | | |
|-----------------------------|------------|----------|---|
| ANTENNA ID: MO/1.2M | 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) (140,000 UNITS), & VI, CONUS, AK, HI, PR

| | | | |
|-----------------------------|-------------|-----------|--|
| ANTENNA ID: TR74 | 0.74 meters | PRODELIN | HANT-91TR |
| 14000.0000 - 14500.0000 MHz | 120KG7D | 39.20 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER, Consumer DiRECWAY service |
| 14000.0000 - 14500.0000 MHz | 240KG7D | 39.20 dBW | 128KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER / Consumer DiRECWAY service |
| 14000.0000 - 14500.0000 MHz | 480KG7D | 39.20 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER / Consumer DiRECWAY service |

| | | |
|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 24M0G7D | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER / Consumer DiRECWAY service |
|-----------------------------|---------|---|

| | | |
|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 36M0G7D | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER / Consumer DiRECWAY service |
|-----------------------------|---------|---|

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 | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER / Consumer DiRECWAY service |
|-----------------------------|---------|---|

| | | |
|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 36M0G7D | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER / Consumer DiRECWAY service |
|-----------------------------|---------|---|

SITE ID: TR 1.2m
 LOCATION: VSAT 1.2M (2,000 UNITS) CONUS, AK, HI, VI, PR

| | | | |
|--------------------|------------|----------------|------|
| ANTENNA ID: TR 1.2 | 1.2 meters | PRODELIN CORP. | 1134 |
|--------------------|------------|----------------|------|

| | | | |
|-----------------------------|---------|-----------|---|
| 14000.0000 - 14500.0000 MHz | 240KG7D | 46.10 dBW | OQPSK, DATA, 128 KSPS, INROUTE / Enterprise DiRECWAY |
|-----------------------------|---------|-----------|---|

| | | | |
|-----------------------------|---------|-----------|---|
| 14000.0000 - 14500.0000 MHz | 480KG7D | 46.10 dBW | OQPSK, DATA, 256 KSPS, INROUTE / Enterprise DiRECWAY |
|-----------------------------|---------|-----------|---|

| | | |
|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 24M0G7D | QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER / Enterprise DiRECWAY |
|-----------------------------|---------|---|

| | | |
|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 36M0G7D | QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER / Enterprise DiRECWAY |
|-----------------------------|---------|---|

| | | |
|-----------------------------|---------|--|
| 11700.0000 - 12200.0000 MHz | 154KG7D | BPSK, DATA, 128 KSPS, OUTROUTE / Enterprise DiRECWAY |
|-----------------------------|---------|--|

| | | |
|-----------------------------|---------|--|
| 11700.0000 - 12200.0000 MHz | 614KG7D | QPSK, DATA, 512 KSPS, OUTROUTE / Enterprise DiRECWAY |
|-----------------------------|---------|--|

| | | | |
|---|------------|----------------|---|
| 11700.0000 - 12200.0000 MHz | 1M29G7D | | BPSK, DATA, 512, KSPS, OUTROUTE / Enterprise DiRECWAY |
| SITE ID: TR 1.8m | | | |
| LOCATION: VSAT 1.8M (1,000 UNITS) CONUS, AK, HI, VI, PR | | | |
| ANTENNA ID: TR 1.8 | 1.8 meters | PRODELIN CORP. | 1184 |
| 14000.0000 - 14500.0000 MHz | 240KG7D | 49.70 dBW | OQPSK, DATA, 128 KSPS, INROUTE / Enterprise DiRECWAY |
| 14000.0000 - 14500.0000 MHz | 480KG7D | 49.70 dBW | OQPSK, DATA, 256 KSPS, INROUTE / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | | QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | | QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 154KG7D | | BPSK, DATA, 128 KSPS, OUTROUTE / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 614KG7D | | QPSK, DATA, 512 KSPS, OUTROUTE / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 1M29G7D | | BPSK, DATA, 512, KSPS, OUTROUTE / Enterprise DiRECWAY |

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: HubB7.6M | 7.6 meters | ANDREW CORP. | ES76K-1 |
| 14000.0000 - 14500.0000 MHz | 24M0G7D | 78.00 dBW | QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER |
| 14000.0000 - 14500.0000 MHz | 36M0G7D | 78.00 dBW | QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER |
| 14000.0000 - 14500.0000 MHz | 154KG7D | 47.90 dBW | BPSK, DATA, 128 KSPS, OUTROUTE |

| | | | |
|-----------------------------|---------|-----------|------------------------------------|
| 14000.0000 - 14500.0000 MHz | 614KG7D | 53.90 dBW | QPSK, DATA, 512 KSPS, OUTROUTE |
| 14000.0000 - 14500.0000 MHz | 1M29G7D | 53.90 dBW | BPSK, DATA, 512, KSPS, OUTROUTE |
| 11700.0000 - 12200.0000 MHz | 240KG7D | | OQPSK, DATA, 128 KSPS, INROUTE |
| 11700.0000 - 12200.0000 MHz | 480KG7D | | OQPSK, DATA, 256 KSPS, INROUTE |

SITE ID: TR 1.0m

LOCATION: VSAT 1.0M (135 cm x 58 cm) (6,000 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 | 240KG7D | 44.00 dBW | OQPSK, DATA, 128 KSPS, INROUTE / Enterprise DiRECWAY |
| 14000.0000 - 14500.0000 MHz | 480KG7D | 44.00 dBW | OQPSK, DATA, 256 KSPS, INROUTE / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | | QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | | QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 154KG7D | | BPSK, DATA, 128 KSPS, OUTROUTE / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 614KG7D | | QPSK, DATA, 512 KSPS, OUTROUTE / Enterprise DiRECWAY |
| 11700.0000 - 12200.0000 MHz | 1M29G7D | | BPSK, DATA, 512, KSPS, OUTROUTE / Enterprise DiRECWAY |

SITE ID: TR 98cm

LOCATION: VSAT 0.98M (6000 UNITS), CONUS, AK, HI, PR,VI

| | | | |
|------------------|-------------|----------|---------|
| ANTENNA ID: TR98 | 0.98 meters | PRODELIN | 9008668 |
|------------------|-------------|----------|---------|

| | | | |
|-----------------------------|---------|-----------|--|
| 14000.0000 - 14500.0000 MHz | 480KG7D | 41.50 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| 14000.0000 - 14000.0000 MHz | 120KG7D | 41.50 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| 14000.0000 - 14000.0000 MHz | 240KG7D | 41.50 dBW | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER, DirecWay service |

SITE ID: TF TR 98cm

LOCATION: VSAT 0.98M temporary-fixed (4000 UNITS), CONUS, AK, HI, PR,VI

ANTENNA ID: TF TR 98 0.98 meters PRODELIN 9008668

| | | | |
|-----------------------------|---------|-----------|--|
| 14000.0000 - 14500.0000 MHz | 120KG7D | 41.50 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| 14000.0000 - 14500.0000 MHz | 240KG7D | 41.50 dBW | 128 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| 14000.0000 - 14500.0000 MHz | 480KG7D | 41.50 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, OQPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| 11700.0000 - 12200.0000 MHz | 36M0G7D | | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |

SITE ID: TF TR 74cm

LOCATION: VSAT 0.74M (98 x 56 cm) temporary-fixed (10,000 UNITS), CONUS, AK,HI,PR, VI

| | | | | |
|-------------|-----------------------------|-------------|-----------|--|
| ANTENNA ID: | TF TR 74CM | 0.74 meters | PRODELIN | HANT-91TR |
| | 14000.0000 - 14500.0000 MHz | 120KG7D | 39.20 dBW | 64 KSPS, 1/2 OR 3/4 RATE FEC, QPSK, 120 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| | 14000.0000 - 14500.0000 MHz | 240KG7D | 39.20 dBW | 128 KSPS, 1/2 OR 3/4 RATE FEC, QPSK, 240 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| | 14000.0000 - 14500.0000 MHz | 480KG7D | 39.20 dBW | 256 KSPS, 1/2 OR 3/4 RATE FEC, QPSK, 480 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| | 11700.0000 - 12200.0000 MHz | 24M0G7D | | 20,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 24,000 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |
| | 11700.0000 - 12200.0000 MHz | 36M0G7D | | 30,000 KSPS, 1/2, 2/3, 3/4, 5/6, OR 7/8 RATE FEC QPSK, 36,000 KHZ BANDWIDTH, DIGITAL CARRIER, DATA service |

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

| | | | | |
|-------------|-----------------------------|------------|--------------|---|
| ANTENNA ID: | HubA7.6M | 7.6 meters | ANDREW CORP. | ES76K-1 |
| | 14000.0000 - 14500.0000 MHz | 24M0G7D | 78.00 dBW | QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER |
| | 14000.0000 - 14500.0000 MHz | 36M0G7D | 78.00 dBW | QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER |
| | 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: 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 | 36M0G7D | QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER / Consumer DiRECWAY service |
| 11700.0000 - 12200.0000 MHz | 24M0G7D | QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER / Consumer DiRECWAY service |

Points of Communication:

- HUB-A - ALSAT - (ALSAT)
- HUB-A - SATMEX-5 - (116.8 W.L.)
- HUB-B - ALSAT - (ALSAT)
- HUB-B - SATMEX-5 - (116.8 W.L.)
- MONITORING - 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 - GALAXY 4R - (99 W.L.)
- TF TR 74cm - SATMEX-5 - (116.8 W.L.)
- TF TR 98cm - GALAXY 4R - (99 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 98cm - GALAXY 4R - (99 W.L.)
- TR 98cm - SATMEX-5 - (116.8 W.L.)

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

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

SES-MOD-20020906-01472 E E020126 Riverside Teleport Corporation

Application for Modification

Class of Station: Fixed Earth Stations

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

Modification filed to add a 1.2 meter antenna to the existing Ku-band license.

SITE ID: Nuevo

LOCATION: 22401 Juniper Flats Road, Riverside, Nuevo, CA

33 ° 47 ' 48.00 " N LAT.

117 ° 5 ' 12.00 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|----------------|---|
| ANTENNA ID: | ANT-9.3M | 9.3 meters | Vertex | KPK |
| | 14000.0000 - 14500.0000 MHz | 45K8G7W | 57.20 dBW | Combination of digital carriers, various FEC rates, various data rates, various modulation. |
| | 14000.0000 - 14500.0000 MHz | 72M0G7W | 89.40 dBW | Combination of digital carriers, various FEC rates, various data rates, various modulation. |
| | 14000.0000 - 14500.0000 MHz | 36M0F3F | 87.80 dBW | Standard Video |
| | 11700.0000 - 12200.0000 MHz | 45K8G7W | | Combination of digital carriers, various FEC rates, various data rates, various modulation. |
| | 11700.0000 - 12200.0000 MHz | 72M0G7W | | Combination of digital carriers, various FEC rates, various data rates, various modulation. |
| | 11700.0000 - 12200.0000 MHz | 36M0F3F | | Standard Video |
| ANTENNA ID: | ANT-1.2M | 1.2 meters | CHANNEL MASTER | 621235201C |
| | 11700.0000 - 12200.0000 MHz | 368KG7W | 0.00 dBW | QPSK digital, 1/2 FEC, 307.5 kbps |
| | 11700.0000 - 12200.0000 MHz | 92K1G7W | | QPSK digital, 1/2 FEC, 76.8 kbps |
| | 14000.0000 - 14500.0000 MHz | 368KG7W | 49.00 dBW | QPSK digital, 1/2 FEC, 307.5 kbps |
| | 14000.0000 - 14500.0000 MHz | 92K1G7W | 42.90 dBW | QPSK digital, 1/2 FEC, 76.8 kbps |

Points of Communication:

Nuevo - ALSAT - (ALSAT)

SES-REG-20020816-01408 P E020229 COLUMBIA POWER & WATER SYSTEMS

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 201 PICKENS LANE, MAURY, COLUMBIA, TN

35 ° 35 ' 52.00 " N LAT.

87 ° 2 ' 35.00 " W LONG.

ANTENNA ID: ANT 1

5 meters

ANTENNA TECHNOLOGY
COMMUNICATIONS, INC.

SIMULSAT 5

3700.0000 - 4200.0000 MHz

36M0F8F

ANALOG VIDEO WITH
ASSOCIATED AUDIO
SUBCARRIERS

3700.0000 - 4200.0000 MHz

36M0G7F

DIGITAL VIDEO WITH
ASSOCIATED AUDIO
SUBCARRIERS

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20020819-01418 P E020232 TRI-COUNTY COMMUNICATIONS CORPORATION

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 119 S. HARRISON STREET, MONTGOMERY, LINDEN, IN

40 ° 11 ' 16.00 " N LAT.

86 ° 54 ' 16.00 " W LONG.

ANTENNA ID: 1

5 meters

MICRODYNE

PR16.4

3700.0000 - 4200.0000 MHz

36M0F3F

ANALOG VIDEO WITH
ASSOCIATED AUDIO
SUBCARRIERS

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20020821-01432 E E020234 TRINITY CHRISTIAN CENTER OF SANTA ANA, INC. D/B/A TRINITY
BROADCASTING NETWORK

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: LOT 6 RADIO RIDGE, PIMA, MT. LEMMON, AZ

32 ° 26 ' 31.30 " N LAT.

110 ° 46 ' 53.30 " W LONG.

ANTENNA ID: 1

3 meters

ANDREW

UHX10-37H

3700.0000 - 4200.0000 MHz

36M0F3F

STANDARD VIDEO WITH
ASSOCIATED AUDIO
SUBCARRIERS.

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20020821-01447 P E020239 COMCAST CABLEVISION OF NEW HAVEN INC.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 11 HAMDEN PARK DRIVE, NEW HAVEN, HAMDEN, CT

41 ° 20 ' 31.00 " N LAT.

72 ° 55 ' 48.00 " W LONG.

ANTENNA ID: 1

4.5 meters

SCIENTIFIC ATLANTA

8345

3700.0000 - 4200.0000 MHz

36M0G7F

DIGITAL VIDEO

3700.0000 - 4200.0000 MHz

36M0F8F

ANALOG VIDEO

Points of Communication:

1 - ALSAT - (ALSAT)

SES-REG-20020829-01437 E E020238 CITY OF BRISTOL, D/B/A BRISTOL VIRGINIA UTILITIES BOARD

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 15022 LEE HIGHTWAY, WASHINGTON, BRISTOL, VA

36 ° 38 ' 42.00 " N LAT.

82 ° 5 ' 40.90 " W LONG.

ANTENNA ID: 1

5 meters

ANTENNA TECH CORP

SIMULSAT 5 M

3700.0000 - 4200.0000 MHz

36M0F8F

VIDEO WITH ASSOCIATED AUDIO
SUB CARRIES

3700.0000 - 4200.0000 MHz

36M0G7F

DIGITAL VIDEO

Points of Communication:

1 - ALSAT - (ALSAT)

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