



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-00975

Wednesday October 24, 2007

SATELLITE COMMUNICATIONS SERVICES INFORMATION

RE: ACTIONS TAKEN

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

SES-AFS-20070912-01269 E E020101 Loral Skynet Network Services, Inc.
Amendment
Grant of Authority Date Effective: 10/23/2007

Class of Station: Fixed Earth Stations

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

SITE ID: REMOTE 0.95M
LOCATION: VSAT (0.95M), CONUS, (5000 UNITS)

| ANTENNA ID: | 0.95M/R | 0.95 meters | RAYTHEON | SMDS2100 |
|-------------|-----------------------------|-------------|-----------|-----------------------------------|
| | 14000.0000 - 14500.0000 MHz | 324KG7W | 44.70 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| | 14000.0000 - 14500.0000 MHz | 842KG7W | 44.70 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| | 14000.0000 - 14500.0000 MHz | 4M41G7W | 44.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| | 14000.0000 - 14500.0000 MHz | 3M17G7W | 49.50 dBW | QPSK 2048 KBPS, RATE 1/2 CODE |
| | 14000.0000 - 14500.0000 MHz | 360KG7W | 44.70 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| | 14000.0000 - 14500.0000 MHz | 936KG7W | 44.70 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| | 14000.0000 - 14500.0000 MHz | 2M45G7W | 44.70 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| | 14000.0000 - 14500.0000 MHz | 4M90G7W | 44.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 360KG7W | 41.70 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 41.70 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 41.70 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 41.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 1.2M
LOCATION: VSAT (1.2M), CONUS, (5000 UNITS)

| | | | | |
|-----------------------------|---------|------------|-----------------------------------|------|
| ANTENNA ID: | 1.2M/P | 1.2 meters | PRODELIN | 1134 |
| 14000.0000 - 14500.0000 MHz | 324KG7W | 46.00 dBW | QPSK 144 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 842KG7W | 46.00 dBW | QPSK 384 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 4M41G7W | 46.00 dBW | QPSK 2048 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 3M17G7W | 49.50 dBW | QPSK 2048 KBPS 1/2 FEC | |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 43.30 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 43.30 dBW | QPSK 512 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 43.30 dBW | QPSK 1024 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 43.30 dBW | QPSK 2048 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 43.10 dBW | QPSK 144 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 43.10 dBW | QPSK 384 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 43.10 dBW | QPSK 1024 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 43.10 dBW | QPSK 2048 KBPS, CONCATENATED CODE | |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 360KG7W | 43.30 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 43.30 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 43.30 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 43.30 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 5
LOCATION: VSAT (0.96M), CONUS, (5000 UNITS)

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|-----------------------------|----------|-------------|-----------------------------------|----------|
| ANTENNA ID: | 0.96M/CM | 0.96 meters | CHANNEL MASTER | TYPE 960 |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 44.20 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 44.20 dBW | QPSK 512 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 44.20 dBW | QPSK 1024 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 44.20 dBW | QPSK 2048 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 38.20 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 38.20 dBW | QPSK 512 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 38.20 dBW | QPSK 1024 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 38.20 dBW | QPSK 2048 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 44.20 dBW | QPSK 144 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 44.20 dBW | QPSK 384 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 44.20 dBW | QPSK 1024 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 44.20 dBW | QPSK 2048 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 38.20 dBW | QPSK 144 KBPS, CONCATENATED CODE | |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 936KG7W | 38.20 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 38.20 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 38.20 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 6
LOCATION: VSAT (1.2M), CONUS, (5000 UNITS)

| ANTENNA ID: | 1.2M.CM | 1.2 meters | CHANNEL MASTER | TYPE 120 | |
|-----------------------------|---------|------------|----------------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | | | 380KG7W | 46.30 dBW | QPSK 256 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 750KG7W | 46.30 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 1M50G7W | 46.30 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 3M00G7W | 46.30 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 380KG7W | 43.30 dBW | QPSK 256 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 750KG7W | 43.30 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 1M50G7W | 43.30 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 3M00G7W | 43.30 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 360KG7W | 46.30 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 936KG7W | 46.30 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 2M45G7W | 46.30 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 4M90G7W | 46.30 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 360KG7W | 43.30 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 936KG7W | 43.30 dBW | QPSK 384 KBPS, CONCATENATED CODE |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 43.30 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 43.30 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 7
LOCATION: VSAT (1.8M), CONUS, (5000 UNITS)

| ANTENNA ID: | 1.8M/CM | 1.8 meters | CHANNEL MASTER | TYPE 180 | |
|-----------------------------|---------|------------|----------------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | | | 380KG7W | 52.60 dBW | QPSK 256 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 750KG7W | 52.80 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 1M50G7W | 52.80 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 3M00G7W | 52.80 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 360KG7W | 52.30 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 936KG7W | 52.80 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 2M45G7W | 52.80 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 4M90G7W | 52.80 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 380KG7W | 49.80 dBW | QPSK 256 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 750KG7W | 49.80 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 1M50G7W | 49.80 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 3M00G7W | 49.80 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 360KG7W | 49.80 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 936KG7W | 49.80 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 2M45G7W | 49.80 dBW | QPSK 1024 KBPS, CONCATENATED CODE |

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|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 49.80 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 8
LOCATION: VSAT (2.4M), CONUS, (5000 UNITS)

| ANTENNA ID: | 2.4M/CM | 2.4 meters | CHANNEL MASTER | TYPE 240 | |
|-----------------------------|---------|------------|----------------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | | | 380KG7W | 55.10 dBW | QPSK 256 KBPS, TIRBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 750KG7W | 58.00 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 1M50G7W | 58.30 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 3M00G7W | 58.30 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 360KG7W | 54.80 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 936KG7W | 58.30 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 2M45G7W | 58.30 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | | | 4M90G7W | 58.30 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | | | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | | | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | | | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE9P
LOCATION: VSAT (1.2M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

| ANTENNA ID: | 1.2M PAT | 1.2 meters | PATRIOT | TXFCC-120KU | |
|-----------------------------|----------|------------|---------|-------------|--|
| 14000.0000 - 14500.0000 MHz | | | 3M00G7W | 46.50 dBW | 2048 KBPS 2/3FEC TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 380KG7W | 46.50 dBW | 256 KBPS 2/3FEC TURBO CODE |
| 14000.0000 - 14500.0000 MHz | | | 4M90G7W | 46.00 dBW | QPSK, 2048 KBPS, 1/2 FEC CONCATENATED CODE |

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|-----------------------------|---------|-----------|---|
| 14000.0000 - 14500.0000 MHz | 360KG7W | 43.30 dBW | QPSK, 144 KBPS, 1/2 FEC CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | 48 MBPS 2/3 FEC HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | 3 MBPS 2/3 FEC HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK, 3 MBPS 2/3 FEC HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK, 48 MBPS 2/3 FEC HUB OUTBOUND TO VSAT |

SITE ID: REMOTE10P
LOCATION: VSAT (1.8M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

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|-----------------------------|------------|-----------|---|
| ANTENNA ID: 1.8M PAT | 1.8 meters | PATRIOT | TXFCC-180KU |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 56.00 dBW | QPSK, 2048 KBPS, 2/3 FEC TURBOCODING |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 56.00 dBW | QPSK, 256 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 3M00G7W | | QPSK, 2048 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 380KG7W | | QPSK, 256 KBPS, 2/3 FEC TURBOCODING |

SITE ID: REMOTE8P
LOCATION: VSAT (2.4M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

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|-----------------------------|------------|-----------|--|
| ANTENNA ID: 2.4M PAT | 2.4 meters | PATRIOT | TXFCC-240KU |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 58.50 dBW | QPSK, 256 KBPS, TURBOCODE, 2/3 FEC |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 58.50 dBW | QPSK 2048 KBPS, TURBOCODE, 2/3 FEC |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK, 3 MBPS, HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK, 48 MBPS, HUB OUTBOUND TO VSAT |

SITE ID: REMOTE11 PROD
LOCATION: VSAT (2.4M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

| | | | |
|-----------------------------|------------|-----------|---------------------------------------|
| ANTENNA ID: 2.4M PROD | 2.4 meters | PRODELIN | P24 |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 54.10 dBW | QPSK, 256KBPS, 2/3 FEC TURBOCODING |

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|-----------------------------|---------|-----------|---|
| 14000.0000 - 14500.0000 MHz | 750KG7W | 52.50 dBW | QPSK, 512 KBPS, 2/3 FEC TURBOCODING |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 52.80 dBW | QPSK, 1024 KBPS, 2/3 FEC TURBOCODING |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 52.80 dBW | QPSK, 2048 KBPS, 2/3 FEC TURBOCODING |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 52.80 dBW | QPSK, 144 KBPS, 2/3 FEC CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 52.80 dBW | QPSK, 2048 KBPS, 2/3 FEC CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48 MBPS 2/3 FEC |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3 MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8 MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 380KG7W | | QPSK, 256 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 750KG7W | | QPSK, 512 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 1M50G7W | | QPSK, 1024 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 3M00G7W | | QPSK, 2048 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 360KG7W | | QPSK, 144 KBPS, 2/3 FEC CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 4M90G7W | | QPSK, 2048 KBPS, 2/3 FEC CONCATENATED CODE |

SITE ID: REMOTE 1.8M
LOCATION: VSAT (1.8M), CONUS, (5000 UNITS)

| | | | | |
|-----------------------------|---------|------------|--------------------------------------|------|
| ANTENNA ID: | 1.8M/P | 1.8 meters | PRODELIN | 1194 |
| 14000.0000 - 14500.0000 MHz | 324KG7W | 49.70 dBW | QPSK 144 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 842KG7W | 49.70 dBW | QPSK 384 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 4M41G7W | 49.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 3M17G7W | 52.70 dBW | QPSK 2048 KBPS, RATE 1/2 CODE | |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 380KG7W | 52.50 dBW | QPSK 256 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 52.80 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 52.80 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 52.80 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 52.20 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 52.80 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 52.80 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 52.80 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 49.80 dBW | QPSK 256 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 49.80 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 49.80 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 49.80 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 49.80 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 49.80 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 49.80 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 49.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: HUB 9.3-M
LOCATION: 1305 INDUSTRIAL PARK ROAD (9.3M. HUB), SHENANDOAH, MT. JACKSON, VA
38 ° 43 ' 47.42 " N LAT. 78 ° 39 ' 29.92 " W LONG.

ANTENNA ID: 9.3-MT. J 9.3 meters VERTEX 9KPC

| | | | |
|-----------------------------|---------|-----------|--|
| 14000.0000 - 14500.0000 MHz | 3M91G7W | 67.00 dBW | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 14000.0000 - 14500.0000 MHz | 8M79G7W | 66.70 dBW | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 14000.0000 - 14500.0000 MHz | 54M0G7W | 78.30 dBW | QPSK 48MBPS 2/3 FEC |
| 11700.0000 - 12200.0000 MHz | 324KG7W | | QPSK 144 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 842KG7W | | QPSK 384 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 4M41G7W | | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 3M17G7W | | QPSK 2048 KBPS, RATE 1/2 CODE |
| 11700.0000 - 12200.0000 MHz | 380KG7W | | QPSK 256 KBPS, TURBO CODE |
| 11700.0000 - 12200.0000 MHz | 750KG7W | | QPSK 512 KBPS, TURBO CODE |
| 11700.0000 - 12200.0000 MHz | 1M50G7W | | QPSK 1024 KBPS, TURBO CODE |
| 11700.0000 - 12200.0000 MHz | 3M00G7W | | QPSK 2048 KBPS, TURBO CODE |
| 11700.0000 - 12200.0000 MHz | 360KG7W | | QPSK 144 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 936KG7W | | QPSK 384 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 2M45G7W | | QPSK 1024 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 4M90G7W | | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 6.839625 MBPS BPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 5.6925 MBPS BPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 4.55975 MBPS QPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 3.795 MBPS QPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 3.06475 MBPS QPSK, FEC TPC, 0.533, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 2.4825 MBPS QPSK, FEC TPC, 0.431, TDMA |

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|-----------------------------|---------|-----------|--|
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 2.279875 MBPS BPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 1.8975 MBPS BPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 1.532375 MBPS BPSK, FEC TPC, 0.533, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 1.239125 MBPS BPSK, FEC TPC, 0.431, TDMA |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 168,768 KBPS 8PSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 152.256 KBPS 8PSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 112.512 KBPS QPSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 101.504 KBPS QPSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 68.224 KBPS QPSK, FEC TPC, 0.533, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 63.36 KBPS QPSK, FEC TPC, 0.495, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 55.168 KBPS QPSK, FEC TPC, 0.431, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 56.256 KBPS BPSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 27.584 KBPS BPSK, FEC TPC, 0.431, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 50.752 KBPS BPSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 34.112 KBPS BPSK, FC TPC, 0.533, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 31.68 KBPS BPSK, FEC TPC, 0.495, SCPC |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 152.256 KBPS 8PSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 126.72 KBPS 8PSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 101.504 KBPS QPSK, FEC TPC, 0.793, TDMA |

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|-----------------------------|---------|-----------|---|
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 84.48 KBPS QPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 68.224 KBPS QPSK, FEC TPC, .533, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 55.168 KBPS QPSK, FEC TPC, 0.431, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 50.752 KBPS BPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 42.24 KBPS BPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 34.112 KBPS BPSK, FEC TPC, 0.533, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 27.584 KBPS BPSK, FEC TPC, 0.431, TDMA |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 30.3255 MBPS 8PSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 27.3585 MBPS 8PSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 20.217 MBPS QPSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 18.239 MBPS QPSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 12.259 MBPS QPSK, FEC TPC, 0.533, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 9.913 MBPS QPSK, FEC TPC, 0.431, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 10.1085 MBPS BPSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 9.1195 MBPS BPSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 6.1295 MBPS BPSK, FEC TPC, 0.533, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 5.6925 MBPS BPSK, FEC TPC, 0.495, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 4.9565 MBPS BPSK, FEC TPC, 0.431, SCPC |
| 13800.0000 - 14500.0000 MHz | 6M90G7W | 77.20 dBW | 9.1195 MBPS QPSK, FEC TPC, 0.793, SCPC |

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|-----------------------------|---------|-----------|---------------------------------------|
| 13800.0000 - 14500.0000 MHz | 6M90G7W | 77.20 dBW | 5.6925 MBPS QPSK, FEC TPC, 0.495 SCPC |
|-----------------------------|---------|-----------|---------------------------------------|

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| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 11.385 MBPS QPSK, FEC TPC, 0.495 SCPC |
|-----------------------------|---------|-----------|---------------------------------------|

SITE ID: REMOTE13
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.2M. VSAT) ENSURE, CONUS, 5000 UNITS

| | | | |
|------------------------|------------|---------|-------------|
| ANTENNA ID: ENS 1.2 2W | 1.2 meters | PATRIOT | TXFLY-120KU |
|------------------------|------------|---------|-------------|

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|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 356KG7W | 45.50 dBW | 395 QPSK |
|-----------------------------|---------|-----------|----------|

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| 14000.0000 - 14500.0000 MHz | 693KG7W | 45.50 dBW | 770 QPSK |
|-----------------------------|---------|-----------|----------|

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| 11700.0000 - 12200.0000 MHz | 356KG7W | | 395 QPSK |
|-----------------------------|---------|--|----------|

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| 11700.0000 - 12200.0000 MHz | 693KG7W | | 770 QPSK |
|-----------------------------|---------|--|----------|

SITE ID: REMOTE14
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.8M. VSAT) ENSURE, CONUS, 5000 UNITS

| | | | |
|------------------------|------------|---------|-------------|
| ANTENNA ID: ENS 1.8 2W | 1.8 meters | PATRIOT | TXFLY-180KU |
|------------------------|------------|---------|-------------|

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|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 356KG7W | 49.00 dBW | 395 QPSK |
|-----------------------------|---------|-----------|----------|

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|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 693KG7W | 49.00 dBW | 770 QPSK |
|-----------------------------|---------|-----------|----------|

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| 11700.0000 - 12200.0000 MHz | 356KG7W | | 395 QPSK |
|-----------------------------|---------|--|----------|

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|-----------------------------|---------|--|----------|
| 11700.0000 - 12200.0000 MHz | 693KG7W | | 770 QPSK |
|-----------------------------|---------|--|----------|

SITE ID: REMOTE15
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.8M. VSAT) ENSURE, CONUS, 5000 UNITS

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|------------------------|------------|---------|-------------|
| ANTENNA ID: ENS 1.8 4W | 1.8 meters | PATRIOT | TXFLY-180KU |
|------------------------|------------|---------|-------------|

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|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 356KG7W | 51.70 dBW | 395 QPSK |
|-----------------------------|---------|-----------|----------|

| | | | |
|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 693KG7W | 52.60 dBW | 770 QPSK |
|-----------------------------|---------|-----------|----------|

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|-----------------------------|---------|--|----------|
| 11700.0000 - 12200.0000 MHz | 356KG7W | | 395 QPSK |
|-----------------------------|---------|--|----------|

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|-----------------------------|---------|--|----------|
| 11700.0000 - 12200.0000 MHz | 693KG7W | | 770 QPSK |
|-----------------------------|---------|--|----------|

SITE ID: REMOTE12
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.2M. VSAT) ENSURE, CONUS, 5000 UNITS

| | | | |
|------------------------|------------|---------|-------------|
| ANTENNA ID: ENS 1.2 4W | 1.2 meters | PATRIOT | TXFLY-120KU |
|------------------------|------------|---------|-------------|

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|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 356KG7W | 48.20 dBW | 395 QPSK |
|-----------------------------|---------|-----------|----------|

| | | | |
|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 693KG7W | 48.20 dBW | 770 QPSK |
| 11700.0000 - 12200.0000 MHz | 356KG7W | | 395 QPSK |
| 11700.0000 - 12200.0000 MHz | 693KG7W | | 770 QPSK |

Points of Communication:

HUB 9.3-M - ALSAT - (ALSAT)
HUB 9.3-M - ESTRELA DO SUL 1 - (63 W.L.)
REMOTE 0.95M - TELSTAR 11 - (37.5 W.L.)
REMOTE 0.95M - TELSTAR 6 - (93 W.L.)
REMOTE 1.2M - ALSAT - (ALSAT)
REMOTE 1.8M - ALSAT - (ALSAT)
REMOTE 5 - TELSTAR 6 - (93 W.L.)
REMOTE 6 - ALSAT - (ALSAT)
REMOTE 7 - ALSAT - (ALSAT)
REMOTE 8 - ALSAT - (ALSAT)
REMOTE10P - ALSAT - (ALSAT)
REMOTE11 PROD - ALSAT - (ALSAT)
REMOTE12 - ALSAT - (ALSAT)
REMOTE13 - ALSAT - (ALSAT)
REMOTE14 - ALSAT - (ALSAT)
REMOTE15 - ALSAT - (ALSAT)
REMOTE8P - ALSAT - (ALSAT)
REMOTE9P - ALSAT - (ALSAT)

SES-AMD-20070912-01270 E E070209 FOX BROADCASTING COMPANY

Amendment

Grant of Authority

Date Effective: 10/23/2007

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 2701 UNION EXTENDED (WJKT), SHELBY, MEMPHIS, TN

35 ° 8 ' 9.70 " N LAT.

89 ° 58 ' 17.30 " W LONG.

| | | | | |
|-------------|---------------------------|------------|--------------------|---|
| ANTENNA ID: | 1 | 4.5 meters | ANDREW CORPORATION | ESA 4.5 |
| | 3700.0000 - 4200.0000 MHz | | 36M0G7W 0.00 dBW | DIGITAL VIDEO WITH ASSOCIATED AUDIO SUB-CARRIERS. |
| | 3700.0000 - 4200.0000 MHz | | 36M0F8W 0.00 dBW | ANALOG VIDEO WITH ASSOCIATED AUDIO SUB-CARRIERS. |

Points of Communication:

1 - ALSAT - (ALSAT)

| | | | |
|-------------------------------|---|---------|----------------------------|
| SES-AMD-20070912-01271 | E | E070207 | FOX BROADCASTING COMPANY |
| Amendment | | | |
| Grant of Authority | | | Date Effective: 10/23/2007 |

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: ONE PEGASUS PLAZA (WDBD), HINDS, JACKSON, MS
32 ° 16 ' 36.50 " N LAT. 90 ° 17 ' 42.30 " W LONG.

| | | | | |
|-------------|---------------------------|------------|--------------------|--|
| ANTENNA ID: | 1 | 4.5 meters | ANDREW CORPORATION | ESA 4.5 |
| | 3700.0000 - 4200.0000 MHz | | 36M0G7W 0.00 dBW | DIGITAL VIDEO WITH ASSOCIATED AUDIO SUB-CARRIERS |
| | 3700.0000 - 4200.0000 MHz | | 36M0F8W 0.00 dBW | ANALOG VIDEO WITH ASSOCIATED AUDIO SUB-CARRIERS. |

Points of Communication:

1 - ALSAT - (ALSAT)

| | | | |
|-------------------------------|---|---------|-------------------------------|
| SES-AMD-20071003-01373 | E | E070229 | Fox Television Stations, Inc. |
| Amendment | | | |
| Withdrawn | | | Date Effective: 10/18/2007 |

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 511 W. ADAMS ST. (KSAZ STUDIO), MARICOPA, PHOENIX, AZ
33 ° 26 ' 52.00 " N LAT. 112 ° 4 ' 53.00 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|-------------------|-----------------------------------|
| ANTENNA ID: | KSAZ | 4.6 meters | VERTEX | K46KRO |
| | 14000.0000 - 14500.0000 MHz | | 36M0F3F 71.60 dBW | FREQUENCY MODULATION-VIDEO, AUDIO |

| | | |
|-----------------------------|---------|--------------------------------------|
| 11700.0000 - 12200.0000 MHz | 36M0F3F | FREQUENCY MODULATION-VIDEO, AUDIO |
|-----------------------------|---------|--------------------------------------|

Points of Communication:

1 - ALSAT - (ALSAT)

| | | | |
|-------------------------------|-----------|--------------------|----------------------------|
| SES-AMD-20071016-01426 | E E070229 | KSAZ License, Inc. | |
| Amendment | | | |
| Withdrawn | | | Date Effective: 10/18/2007 |

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 511 W. ADAMS ST. (KSAZ STUDIO), MARICOPA, PHOENIX, AZ
33 ° 26 ' 52.00 " N LAT. 112 ° 4 ' 53.00 " W LONG.

| | | | | |
|-----------------------------|---------|------------|--------|--------------------------------------|
| ANTENNA ID: | KSAZ | 4.6 meters | VERTEX | K46KRO |
| 14000.0000 - 14500.0000 MHz | 36M0F3F | 71.60 dBW | | FREQUENCY MODULATION-VIDEO, AUDIO |
| 11700.0000 - 12200.0000 MHz | 36M0F3F | | | FREQUENCY MODULATION-VIDEO, AUDIO |

Points of Communication:

1 - ALSAT - (ALSAT)

| | | | |
|-------------------------------|-----------|------------------------|----------------------------|
| SES-LIC-20070508-00569 | E E960463 | ORBIMAGE License Corp. | |
| Application for Authority | | | 10/19/2007 - 10/19/2022 |
| Grant of Authority | | | Date Effective: 10/19/2007 |

Class of Station: Fixed Earth Stations

Nature of Service: Earth Exploration Satellite Service

SITE ID: 1
LOCATION: 2318 SE 44th Street, McClain, Newcastle, OK
35 ° 10 ' 47.20 " N LAT. 97 ° 33 ' 59.30 " W LONG.

| | | | | |
|---------------------------|---------|-----------|--------|--|
| ANTENNA ID: | 1 | 11 meters | Datron | 79092 |
| 8328.8000 - 8371.2000 MHz | 42M4G7D | | | Image Data via IRS-1C |
| 8328.8000 - 8371.2000 MHz | 42M4G7D | | | Image Data via IRS-1D |
| 8247.5000 - 8352.5000 MHz | 105MG7D | | | QPSK/ Image Data via ResourceSat-1 (IRS P6) |
| 8107.5000 - 8192.4000 MHz | 84M9G7D | | | Image Data via IRS-1C |

| | | |
|---------------------------|---------|--|
| 8072.5000 - 8177.5000 MHz | 105MG7D | QPSK/ Image Data via ResourceSat-1 (IRS P6) |
| 8107.5000 - 8192.4000 MHz | 84M9G7D | Image Data via IRS-1D |

Points of Communication:

- 1 - IRS-1C - (NGSO)
- 1 - IRS-1D - (NGSO)
- 1 - IRS-P6 - (NGSO)

| | | | |
|-------------------------------|-----------|---------------------------------------|----------------------------|
| SES-LIC-20070904-01219 | E E070217 | Post-Newsweek Stations, Orlando, Inc. | 10/19/2007 - 10/19/2022 |
| Application for Authority | | | Date Effective: 10/19/2007 |
| Grant of Authority | | | |

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION:

| | | | |
|-----------------------------|------------|----------------|---|
| ANTENNA ID: 1 | 1.2 meters | AVL Technology | 1210 |
| 14000.0000 - 14500.0000 MHz | 36M0G7W | 63.90 dBW | One 36 Mbit MCPC digital carrier for voice/data |

Points of Communication:

- 1 - PERMITTED LIST - ()

| | | | |
|-------------------------------|---------|---|----------------------------|
| SES-LIC-20070917-01284 | E E6420 | THE NORTH AMERICAN MISSION BOARD OF THE SOUTHERN BAPTIST CONVENTION, INC. | 10/22/2007 - 10/22/2022 |
| Application for Authority | | | Date Effective: 10/22/2007 |
| Grant of Authority | | | |

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Benbrook
LOCATION: 315 Winscott Road, Tarrant, Benbrook, TX
32 ° 41 ' 39.50 " N LAT. 97 ° 26 ' 49.10 " W LONG.

| | | | |
|---------------------------|-----------|--------------------|--|
| ANTENNA ID: A2 | 11 meters | Scientific Atlanta | 8007 |
| 6109.0000 - 6425.0000 MHz | 36M0G7W | 81.30 dBW | Digital Video and Audio |
| 6109.0000 - 6425.0000 MHz | 36M0F8W | 72.60 dBW | Analog Video with Associated Audio Subcarriers |
| 5925.0000 - 6078.0000 MHz | 36M0G7W | 81.30 dBW | Digital Video and Audio |

| | | | |
|---------------------------|-----------|--------------------|--|
| 5925.0000 - 6078.0000 MHz | 36M0F8W | 72.60 dBW | Analog Video with Associated Audio Subcarriers |
| 3700.0000 - 4200.0000 MHz | 36M0G7W | | Digital Video and Audio |
| 3700.0000 - 4200.0000 MHz | 36M0F8W | | Analog Video with Associated Audio Subcarriers |
| ANTENNA ID: A1 | 11 meters | Scientific Atlanta | 8007 |
| 3700.0000 - 4200.0000 MHz | 36M0F8W | | Analog Video with Associated Audio Subcarriers |
| 3700.0000 - 4200.0000 MHz | 36M0G7W | | Digital Video and Audio |
| 5925.0000 - 6078.0000 MHz | 36M0F8W | 72.60 dBW | Analog Video with Associated Audio Subcarriers |
| 6109.0000 - 6425.0000 MHz | 36M0F8W | 72.60 dBW | Analog Video with Associated Audio Subcarriers |
| 5925.0000 - 6078.0000 MHz | 36M0G7W | 81.30 dBW | Digital Video and Audio |
| 6109.0000 - 6425.0000 MHz | 36M0G7W | 81.30 dBW | Digital Video and Audio |

Points of Communication:

- Benbrook - ALSAT - (ALSAT)
- Benbrook - ANIK E2R - (111.1 W.L.)
- Benbrook - ANIK F1 - (107.3 W.L.)
- Benbrook - ANIK F1R - (107.3 W.L.)
- Benbrook - ANIK F2 - (111.1 W.L.)
- Benbrook - ANIK F3 - (118.7 W.L.)
- Benbrook - PERMITTED LIST - ()
- Benbrook - SATMEX 6 - (113 W.L.)
- Benbrook - SATMEX-5 - (116.8 W.L.)
- Benbrook - SOLIDARIDAD 2 - (114.9 W.L.)

SES-LIC-20070925-01327 E E070229 Fox Television Stations, Inc.
Application for Authority
Withdrawn

Date Effective: 10/18/2007

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 511 W. ADAMS ST. (KSAZ STUDIO), MARICOPA, PHOENIX, AZ
33 ° 26 ' 52.00 " N LAT. 112 ° 4 ' 53.00 " W LONG.

ANTENNA ID: KSAZ 4.6 meters VERTEX K46KRO
14000.0000 - 14500.0000 MHz 36M0F3F 71.60 dBW FREQUENCY MODULATION-VIDEO, AUDIO
11700.0000 - 12200.0000 MHz 36M0F3F FREQUENCY MODULATION-VIDEO, AUDIO

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-INTR2007-02504 E KSAZ License, Inc.
Application for Authority
Withdrawn Date Effective: 10/19/2007

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: KSAZ Studio
LOCATION: 511 W. Adams St., Maricopa, Phoenix, AZ
33 ° 26 ' 52.00 " N LAT. 112 ° 4 ' 53.00 " W LONG.

ANTENNA ID: KSAZ Studi 4.6 meters Vertex K46KRO
14000.0000 - 14500.0000 MHz 36M0F3F 71.60 dBW Frequency Modulation - Audio, Video
11700.0000 - 12200.0000 MHz 36M0F3F

Points of Communication:

KSAZ Studio - ALSAT - (ALSAT)

SES-MFS-20070507-00562 E E020101 Loral Skynet Network Services, Inc.
Modification 09/17/2002 - 09/17/2017
Grant of Authority Date Effective: 10/23/2007

Class of Station: Fixed Earth Stations

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

SITE ID: REMOTE 0.95M
LOCATION: VSAT (0.95M), CONUS, (5000 UNITS)

ANTENNA ID: 0.95M/R 0.95 meters RAYTHEON SMDS2100
14000.0000 - 14500.0000 MHz 324KG7W 44.70 dBW QPSK 144 KBPS, CONCATENATED CODE

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 842KG7W | 44.70 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M41G7W | 44.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 3M17G7W | 49.50 dBW | QPSK 2048 KBPS, RATE 1/2 CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 44.70 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 44.70 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 44.70 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 44.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 41.70 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 41.70 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 41.70 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 41.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 1.2M
LOCATION: VSAT (1.2M), CONUS, (5000 UNITS)

| | | | | |
|-----------------------------|---------|------------|-----------------------------------|------|
| ANTENNA ID: | 1.2M/P | 1.2 meters | PRODELIN | 1134 |
| 14000.0000 - 14500.0000 MHz | 324KG7W | 46.00 dBW | QPSK 144 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 842KG7W | 46.00 dBW | QPSK 384 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 4M41G7W | 46.00 dBW | QPSK 2048 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 3M17G7W | 49.50 dBW | QPSK 2048 KBPS 1/2 FEC | |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 380KG7W | 43.30 dBW | QPSK 256 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 43.30 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 43.30 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 43.30 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 43.10 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 43.10 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 43.10 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 43.10 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 43.30 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 43.30 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 43.30 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 43.30 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 5
LOCATION: VSAT (0.96M), CONUS, (5000 UNITS)

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|-----------------------------|----------|-------------|----------------------------|----------|
| ANTENNA ID: | 0.96M/CM | 0.96 meters | CHANNEL MASTER | TYPE 960 |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 44.20 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 44.20 dBW | QPSK 512 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 44.20 dBW | QPSK 1024 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 44.20 dBW | QPSK 2048 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 38.20 dBW | QPSK 256 KBPS, TURBO CODE | |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 750KG7W | 38.20 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 38.20 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 38.20 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 44.20 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 44.20 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 44.20 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 44.20 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 38.20 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 38.20 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 38.20 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 38.20 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 6
LOCATION: VSAT (1.2M), CONUS, (5000 UNITS)

| | | | | |
|-----------------------------|---------|------------|----------------------------|----------|
| ANTENNA ID: | 1.2M.CM | 1.2 meters | CHANNEL MASTER | TYPE 120 |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 46.30 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 46.30 dBW | QPSK 512 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 46.30 dBW | QPSK 1024 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 46.30 dBW | QPSK 2048 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 43.30 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 43.30 dBW | QPSK 512 KBPS, TURBO CODE | |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 43.30 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 43.30 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 46.30 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 46.30 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 46.30 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 46.30 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 43.30 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 43.30 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 43.30 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 43.30 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 7
LOCATION: VSAT (1.8M), CONUS, (5000 UNITS)

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|-----------------------------|---------|------------|----------------------------------|----------|
| ANTENNA ID: | 1.8M/CM | 1.8 meters | CHANNEL MASTER | TYPE 180 |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 52.60 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 52.80 dBW | QPSK 512 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 52.80 dBW | QPSK 1024 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 52.80 dBW | QPSK 2048 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 52.30 dBW | QPSK 144 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 52.80 dBW | QPSK 384 KBPS, CONCATENATED CODE | |

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|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 52.80 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 52.80 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 49.80 dBW | QPSK 256 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 49.80 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 49.80 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 49.80 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 49.80 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 49.80 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 49.80 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 49.80 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE 8
LOCATION: VSAT (2.4M), CONUS, (5000 UNITS)

| | | | |
|-----------------------------|------------|----------------|-----------------------------------|
| ANTENNA ID: 2.4M/CM | 2.4 meters | CHANNEL MASTER | TYPE 240 |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 55.10 dBW | QPSK 256 KBPS, TIRBO CODE |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 58.00 dBW | QPSK 512 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 58.30 dBW | QPSK 1024 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 58.30 dBW | QPSK 2048 KBPS, TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 54.80 dBW | QPSK 144 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 58.30 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 58.30 dBW | QPSK 1024 KBPS, CONCATENATED CODE |

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|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 58.30 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: REMOTE9P
LOCATION: VSAT (1.2M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

| | | | |
|-----------------------------|------------|-----------|--|
| ANTENNA ID: 1.2M PAT | 1.2 meters | PATRIOT | TXFCC-120KU |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 46.50 dBW | 2048 KBPS 2/3FEC TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 46.50 dBW | 256 KBPS 2/3FEC TURBO CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 46.00 dBW | QPSK, 2048 KBPS, 1/2 FEC CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 43.30 dBW | QPSK, 144 KBPS, 1/2 FEC CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | 48 MBPS 2/3 FEC HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | 3 MBPS 2/3 FEC HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK, 3 MBPS 2/3 FEC HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK, 48 MBPS 2/3 FEC HUB OUTBOUND TO VSAT |

SITE ID: REMOTE10P
LOCATION: VSAT (1.8M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

| | | | |
|-----------------------------|------------|-----------|--------------------------------------|
| ANTENNA ID: 1.8M PAT | 1.8 meters | PATRIOT | TXFCC-180KU |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 56.00 dBW | QPSK, 2048 KBPS, 2/3 FEC TURBOCODING |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 56.00 dBW | QPSK, 256 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 3M00G7W | | QPSK, 2048 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 380KG7W | | QPSK, 256 KBPS, 2/3 FEC TURBOCODING |

SITE ID: REMOTE8P
LOCATION: VSAT (2.4M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

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|-------------|-----------------------------|------------|---------|-------------|-------------------------------------|
| ANTENNA ID: | 2.4M PAT | 2.4 meters | PATRIOT | TXFCC-240KU | |
| | 14000.0000 - 14500.0000 MHz | | 380KG7W | 58.50 dBW | QPSK, 256 KBPS, TURBOCODE, 2/3 FEC |
| | 14000.0000 - 14500.0000 MHz | | 3M00G7W | 58.50 dBW | QPSK 2048 KBPS, TURBOCODE, 2/3 FEC |
| | 11700.0000 - 12200.0000 MHz | | 3M91G7W | | QPSK, 3 MBPS, HUB OUTBOUND TO VSAT |
| | 11700.0000 - 12200.0000 MHz | | 54M0G7W | | QPSK, 48 MBPS, HUB OUTBOUND TO VSAT |

SITE ID: REMOTE11 PROD
LOCATION: VSAT (2.4M) 1305 INDUSTRIAL PARK ROAD, CONUS, (5000 UNITS)

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|-------------|-----------------------------|------------|----------|-----------|--|
| ANTENNA ID: | 2.4M PROD | 2.4 meters | PRODELIN | P24 | |
| | 14000.0000 - 14500.0000 MHz | | 380KG7W | 54.10 dBW | QPSK, 256KBPS, 2/3 FEC TURBOCODING |
| | 14000.0000 - 14500.0000 MHz | | 750KG7W | 52.50 dBW | QPSK, 512 KBPS, 2/3 FEC TURBOCODING |
| | 14000.0000 - 14500.0000 MHz | | 1M50G7W | 52.80 dBW | QPSK, 1024 KBPS, 2/3 FEC TURBOCODING |
| | 14000.0000 - 14500.0000 MHz | | 3M00G7W | 52.80 dBW | QPSK, 2048 KBPS, 2/3 FEC TURBOCODING |
| | 14000.0000 - 14500.0000 MHz | | 360KG7W | 52.80 dBW | QPSK, 144 KBPS, 2/3 FEC CONCATENATED CODE |
| | 14000.0000 - 14500.0000 MHz | | 4M90G7W | 52.80 dBW | QPSK, 2048 KBPS, 2/3 FEC CONCATENATED CODE |
| | 11700.0000 - 12200.0000 MHz | | 54M0G7W | | QPSK 48 MBPS 2/3 FEC |
| | 11700.0000 - 12200.0000 MHz | | 3M91G7W | | QPSK 3 MBPS HUB OUTBOUND TO VSAT |
| | 11700.0000 - 12200.0000 MHz | | 8M79G7W | | QPSK 8 MBPS HUB OUTBOUND TO VSAT |
| | 11700.0000 - 12200.0000 MHz | | 380KG7W | | QPSK, 256 KBPS, 2/3 FEC TURBOCODING |
| | 11700.0000 - 12200.0000 MHz | | 750KG7W | | QPSK, 512 KBPS, 2/3 FEC TURBOCODING |
| | 11700.0000 - 12200.0000 MHz | | 1M50G7W | | QPSK, 1024 KBPS, 2/3 FEC TURBOCODING |

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|-----------------------------|---------|---|
| 11700.0000 - 12200.0000 MHz | 3M00G7W | QPSK, 2048 KBPS, 2/3 FEC TURBOCODING |
| 11700.0000 - 12200.0000 MHz | 360KG7W | QPSK, 144 KBPS, 2/3 FEC CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 4M90G7W | QPSK, 2048 KBPS, 2/3 FEC CONCATENATED CODE |

SITE ID: REMOTE 1.8M
LOCATION: VSAT (1.8M), CONUS, (5000 UNITS)

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|-----------------------------|---------|------------|--------------------------------------|------|
| ANTENNA ID: | 1.8M/P | 1.8 meters | PRODELIN | 1194 |
| 14000.0000 - 14500.0000 MHz | 324KG7W | 49.70 dBW | QPSK 144 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 842KG7W | 49.70 dBW | QPSK 384 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 4M41G7W | 49.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 3M17G7W | 52.70 dBW | QPSK 2048 KBPS, RATE 1/2 CODE | |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 52.50 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 52.80 dBW | QPSK 512 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 52.80 dBW | QPSK 1024 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 52.80 dBW | QPSK 2048 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 52.20 dBW | QPSK 144 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 936KG7W | 52.80 dBW | QPSK 384 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 52.80 dBW | QPSK 1024 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 52.80 dBW | QPSK 2048 KBPS, CONCATENATED CODE | |
| 14000.0000 - 14500.0000 MHz | 380KG7W | 49.80 dBW | QPSK 256 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 750KG7W | 49.80 dBW | QPSK 512 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 1M50G7W | 49.80 dBW | QPSK 1024 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 3M00G7W | 49.80 dBW | QPSK 2048 KBPS, TURBO CODE | |
| 14000.0000 - 14500.0000 MHz | 360KG7W | 49.80 dBW | QPSK 144 KBPS, CONCATENATED CODE | |

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|-----------------------------|---------|-----------|-----------------------------------|
| 14000.0000 - 14500.0000 MHz | 936KG7W | 49.80 dBW | QPSK 384 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 2M45G7W | 49.80 dBW | QPSK 1024 KBPS, CONCATENATED CODE |
| 14000.0000 - 14500.0000 MHz | 4M90G7W | 49.70 dBW | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 8M79G7W | | QPSK 8MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 3M91G7W | | QPSK 3MBPS HUB OUTBOUND TO VSAT |
| 11700.0000 - 12200.0000 MHz | 54M0G7W | | QPSK 48MBPS 2/3 FEC |

SITE ID: HUB 9.3-M

LOCATION: 1305 INDUSTRIAL PARK ROAD (9.3M. HUB), SHENANDOAH, MT. JACKSON, VA

38 ° 43 ' 47.42 " N LAT.

78 ° 39 ' 29.92 " W LONG.

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|-----------------------------|-----------|------------|-----------------------------------|------|
| ANTENNA ID: | 9.3-MT. J | 9.3 meters | VERTEX | 9KPC |
| 14000.0000 - 14500.0000 MHz | 3M91G7W | 67.00 dBW | QPSK 3MBPS HUB OUTBOUND TO VSAT | |
| 14000.0000 - 14500.0000 MHz | 8M79G7W | 66.70 dBW | QPSK 8MBPS HUB OUTBOUND TO VSAT | |
| 14000.0000 - 14500.0000 MHz | 54M0G7W | 78.30 dBW | QPSK 48MBPS 2/3 FEC | |
| 11700.0000 - 12200.0000 MHz | 324KG7W | | QPSK 144 KBPS, CONCATENATED CODE | |
| 11700.0000 - 12200.0000 MHz | 842KG7W | | QPSK 384 KBPS, CONCATENATED CODE | |
| 11700.0000 - 12200.0000 MHz | 4M41G7W | | QPSK 2048 KBPS, CONCATENATED CODE | |
| 11700.0000 - 12200.0000 MHz | 3M17G7W | | QPSK 2048 KBPS, RATE 1/2 CODE | |
| 11700.0000 - 12200.0000 MHz | 380KG7W | | QPSK 256 KBPS, TURBO CODE | |
| 11700.0000 - 12200.0000 MHz | 750KG7W | | QPSK 512 KBPS, TURBO CODE | |
| 11700.0000 - 12200.0000 MHz | 1M50G7W | | QPSK 1024 KBPS, TURBO CODE | |
| 11700.0000 - 12200.0000 MHz | 3M00G7W | | QPSK 2048 KBPS, TURBO CODE | |
| 11700.0000 - 12200.0000 MHz | 360KG7W | | QPSK 144 KBPS, CONCATENATED CODE | |
| 11700.0000 - 12200.0000 MHz | 936KG7W | | QPSK 384 KBPS, CONCATENATED CODE | |

| | | | |
|-----------------------------|---------|-----------|--|
| 11700.0000 - 12200.0000 MHz | 2M45G7W | | QPSK 1024 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 4M90G7W | | QPSK 2048 KBPS, CONCATENATED CODE |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 6.839625 MBPS BPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 5.6925 MBPS BPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 4.55975 MBPS QPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 3.795 MBPS QPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 3.06475 MBPS QPSK, FEC TPC, 0.533, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 2.4825 MBPS QPSK, FEC TPC, 0.431, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 2.279875 MBPS BPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 1.8975 MBPS BPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 1.532375 MBPS BPSK, FEC TPC, 0.533, TDMA |
| 11700.0000 - 12200.0000 MHz | 3M45G1W | | 1.239125 MBPS BPSK, FEC TPC, 0.431, TDMA |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 168,768 KBPS 8PSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 152.256 KBPS 8PSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 112.512 KBPS QPSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 101.504 KBPS QPSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 68.224 KBPS QPSK, FEC TPC, 0.533, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 63.36 KBPS QPSK, FEC TPC, 0.495, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 55.168 KBPS QPSK, FEC TPC, 0.431, SCPC |

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| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 56.256 KBPS BPSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 27.584 KBPS BPSK, FEC TPC, 0.431, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 50.752 KBPS BPSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 34.112 KBPS BPSK, FC TPC, 0.533, SCPC |
| 13800.0000 - 14500.0000 MHz | 76K8G7W | 77.20 dBW | 31.68 KBPS BPSK, FEC TPC, 0.495, SCPC |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 152.256 KBPS 8PSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 126.72 KBPS 8PSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 101.504 KBPS QPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 84.48 KBPS QPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 68.224 KBPS QPSK, FEC TPC, .533, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 55.168 KBPS QPSK, FEC TPC, 0.431, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 50.752 KBPS BPSK, FEC TPC, 0.793, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 42.24 KBPS BPSK, FEC TPC, 0.66, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 34.112 KBPS BPSK, FEC TPC, 0.533, TDMA |
| 11700.0000 - 12200.0000 MHz | 76K8G7W | | 27.584 KBPS BPSK, FEC TPC, 0.431, TDMA |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 30.3255 MBPS 8PSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 27.3585 MBPS 8PSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 20.217 MBPS QPSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 18.239 MBPS QPSK, FEC TPC, 0.793, SCPC |

| | | | |
|-----------------------------|---------|-----------|---|
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 12.259 MBPS QPSK, FEC TPC, 0.533, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 9.913 MBPS QPSK, FEC TPC, 0.431, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 10.1085 MBPS BPSK, FEC TPC, 0.879, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 9.1195 MBPS BPSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 6.1295 MBPS BPSK, FEC TPC, 0.533, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 5.6925 MBPS BPSK, FEC TPC, 0.495, SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 4.9565 MBPS BPSK, FEC TPC, 0.431, SCPC |
| 13800.0000 - 14500.0000 MHz | 6M90G7W | 77.20 dBW | 9.1195 MBPS QPSK, FEC TPC, 0.793, SCPC |
| 13800.0000 - 14500.0000 MHz | 6M90G7W | 77.20 dBW | 5.6925 MBPS QPSK, FEC TPC, 0.495 SCPC |
| 13800.0000 - 14500.0000 MHz | 13M8G7W | 77.20 dBW | 11.385 MBPS QPSK, FEC TPC, 0.495 SCPC |

SITE ID: REMOTE13

LOCATION: 1305 INDUSTRIAL PARK ROAD (1.2M. VSAT) ENSURE, CONUS, 5000 UNITS

ANTENNA ID: ENS 1.2 2W 1.2 meters PATRIOT TXFLY-120KU

| | | | |
|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 356KG7W | 45.50 dBW | 395 QPSK |
| 14000.0000 - 14500.0000 MHz | 693KG7W | 45.50 dBW | 770 QPSK |
| 11700.0000 - 12200.0000 MHz | 356KG7W | | 395 QPSK |
| 11700.0000 - 12200.0000 MHz | 693KG7W | | 770 QPSK |

SITE ID: REMOTE14

LOCATION: 1305 INDUSTRIAL PARK ROAD (1.8M. VSAT) ENSURE, CONUS, 5000 UNITS

ANTENNA ID: ENS 1.8 2W 1.8 meters PATRIOT TXFLY-180KU

| | | | |
|-----------------------------|---------|-----------|----------|
| 14000.0000 - 14500.0000 MHz | 356KG7W | 49.00 dBW | 395 QPSK |
| 14000.0000 - 14500.0000 MHz | 693KG7W | 49.00 dBW | 770 QPSK |
| 11700.0000 - 12200.0000 MHz | 356KG7W | | 395 QPSK |
| 11700.0000 - 12200.0000 MHz | 693KG7W | | 770 QPSK |

SITE ID: REMOTE15
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.8M. VSAT) ENSURE, CONUS, 5000 UNITS

| | | | | | |
|-------------|-----------------------------|------------|---------|-------------|----------|
| ANTENNA ID: | ENS 1.8 4W | 1.8 meters | PATRIOT | TXFLY-180KU | |
| | 14000.0000 - 14500.0000 MHz | | 356KG7W | 51.70 dBW | 395 QPSK |
| | 14000.0000 - 14500.0000 MHz | | 693KG7W | 52.60 dBW | 770 QPSK |
| | 11700.0000 - 12200.0000 MHz | | 356KG7W | | 395 QPSK |
| | 11700.0000 - 12200.0000 MHz | | 693KG7W | | 770 QPSK |

SITE ID: REMOTE12
LOCATION: 1305 INDUSTRIAL PARK ROAD (1.2M. VSAT) ENSURE, CONUS, 5000 UNITS

| | | | | | |
|-------------|-----------------------------|------------|---------|-------------|----------|
| ANTENNA ID: | ENS 1.2 4W | 1.2 meters | PATRIOT | TXFLY-120KU | |
| | 14000.0000 - 14500.0000 MHz | | 356KG7W | 48.20 dBW | 395 QPSK |
| | 14000.0000 - 14500.0000 MHz | | 693KG7W | 48.20 dBW | 770 QPSK |
| | 11700.0000 - 12200.0000 MHz | | 356KG7W | | 395 QPSK |
| | 11700.0000 - 12200.0000 MHz | | 693KG7W | | 770 QPSK |

Points of Communication:

HUB 9.3-M - ALSAT - (ALSAT)
HUB 9.3-M - ESTRELA DO SUL 1 - (63 W.L.)
REMOTE 0.95M - TELSTAR 11 - (37.5 W.L.)
REMOTE 0.95M - TELSTAR 6 - (93 W.L.)
REMOTE 1.2M - ALSAT - (ALSAT)
REMOTE 1.8M - ALSAT - (ALSAT)
REMOTE 5 - TELSTAR 6 - (93 W.L.)
REMOTE 6 - ALSAT - (ALSAT)
REMOTE 7 - ALSAT - (ALSAT)
REMOTE 8 - ALSAT - (ALSAT)
REMOTE10P - ALSAT - (ALSAT)
REMOTE11 PROD - ALSAT - (ALSAT)
REMOTE12 - ALSAT - (ALSAT)
REMOTE13 - ALSAT - (ALSAT)

REMOTE14 - ALSAT - (ALSAT)

REMOTE15 - ALSAT - (ALSAT)

REMOTE8P - ALSAT - (ALSAT)

REMOTE9P - ALSAT - (ALSAT)

SES-MOD-20070911-01264 E E050244 Grupo W COM, S.A. de C.V.

Application for Modification

10/24/2005 - 10/24/2020

Grant of Authority

Date Effective: 10/23/2007

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

SITE ID: REMOTE 1

LOCATION: 0.98M. VSAT (1000 UNITS), VARIOUS, US, PRI

| | | | | |
|-------------|-----------------------------|-------------|--------------------|------------------------|
| ANTENNA ID: | R1 | 0.98 meters | ANDREW CORPORATION | 0.98M. |
| | 14000.0000 - 14500.0000 MHz | 352KG7W | 40.00 dBW | DIGITAL VOICE AND DATA |
| | 14000.0000 - 14500.0000 MHz | 236KG7W | 41.90 dBW | DIGITAL VOICE AND DATA |
| | 11700.0000 - 12200.0000 MHz | 352KG7W | | DIGITAL VOICE AND DATA |
| | 11700.0000 - 12200.0000 MHz | 236KG7W | | DIGITAL VOICE AND DATA |

SITE ID: REMOTE 2

LOCATION: 1.2M. VSAT (1000 UNITS), VARIOUS, US, PRI

| | | | | |
|-------------|-----------------------------|------------|--------------------|------------------------|
| ANTENNA ID: | R2 | 1.2 meters | ANDREW CORPORATION | 1.2M. |
| | 14000.0000 - 14500.0000 MHz | 352KG7W | 46.30 dBW | DIGITAL VOICE AND DATA |
| | 14000.0000 - 14500.0000 MHz | 236KG7W | 46.30 dBW | DIGITAL VOICE AND DATA |
| | 11700.0000 - 12200.0000 MHz | 352KG7W | | DIGITAL VOICE AND DATA |
| | 11700.0000 - 12200.0000 MHz | 236KG7W | | DIGITAL VOICE AND DATA |

Points of Communication:

REMOTE 1 - HORIZONS 1 - (127 DEG WL)

REMOTE 1 - INTELSAT 707 - (53 W.L.)

REMOTE 2 - HORIZONS 1 - (127 DEG WL)

REMOTE 2 - INTELSAT 707 - (53 W.L.)

SES-MOD-20070911-01265 E E050230 DIRECTV Enterprises, LLC
Application for Modification
Grant of Authority

09/08/2005 - 09/08/2020
Date Effective: 10/23/2007

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: CRBC

LOCATION: 5454 Garton Road, Douglas, Castle Rock, CO
39 ° 16 ' 38.40 " N LAT.

104 ° 48 ' 27.40 " W LONG.

| | | | | | |
|-------------|-----------------------------|------------|------------|------------|--|
| ANTENNA ID: | CKA10 | 9.2 meters | Vertex RSI | 9mKa-01-00 | |
| | 29525.0000 - 29535.0000 MHz | | 25K0N0N | 75.80 dBW | Beacon Transmission |
| | 29500.0000 - 29515.0000 MHz | | 1M30F9D | 89.50 dBW | Multi-tone Frequency Modulated Command Carrier |
| | 29250.0000 - 30000.0000 MHz | | 36M0G7W | 69.50 dBW | PSK Mod Digital Video / Audio |
| | 28350.0000 - 28600.0000 MHz | | 36M0G7W | 69.50 dBW | PSK Mod Digital Video / Audio |
| | 19700.0000 - 20200.0000 MHz | | 36M0G7W | 0.00 dBW | PSK Mod Digital Video / Audio |
| | 19700.0000 - 19710.0000 MHz | | 106KG9D | 0.00 dBW | Phase Modulated Satellite Telemetry |
| | 18300.0000 - 18800.0000 MHz | | 36M0G7W | 0.00 dBW | PSK Mod Digital Video / Audio |
| ANTENNA ID: | CKA11 | 9.2 meters | Vertex RSI | 9mKa-01-00 | |
| | 29525.0000 - 29535.0000 MHz | | 25K0N0N | 75.80 dBW | Beacon Transmission |
| | 29500.0000 - 29515.0000 MHz | | 1M30F9D | 89.50 dBW | Multi-tone Frequency Modulated Command Carrier |
| | 29250.0000 - 30000.0000 MHz | | 36M0G7W | 69.50 dBW | PSK Mod Digital Video / Audio |
| | 28350.0000 - 28600.0000 MHz | | 36M0G7W | 69.50 dBW | PSK Mod Digital Video / Audio |
| | 19700.0000 - 20200.0000 MHz | | 36M0G7W | 0.00 dBW | PSK Mod Digital Video / Audio |
| | 19700.0000 - 19710.0000 MHz | | 106KG9D | 0.00 dBW | Phase Modulated Satellite Telemetry |
| | 18300.0000 - 18800.0000 MHz | | 36M0G7W | 0.00 dBW | PSK Mod Digital Video / Audio |

Points of Communication:

CRBC - DIRECTV 10 - (102.8 W.L.)

CRBC - DIRECTV 11 - (99.2 W.L.)

CRBC - DIRECTV 8 (K) - (101 W.L.)

CRBC - DIRECTV 9S - (101 W.L.)

CRBC - SPACEWAY 1 - (103 W.L.)

CRBC - SPACEWAY 2 - (99 W.L.)

SES-MOD-20070911-01266 E E050286 DIRECTV Enterprises, LLC

Application for Modification

12/13/2005 - 12/13/2020

Grant of Authority

Date Effective: 10/23/2007

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: CRDUF

LOCATION: 370 Inverness Drive South, Douglas, Englewood, CO

39 ° 33 ' 36.90 " N LAT.

104 ° 51 ' 47.60 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|-------------------|-------------------------------|
| ANTENNA ID: | CDKA2 | 8.1 meters | ANDREW | ES81KAA-101 |
| | 29250.0000 - 30000.0000 MHz | | 36M0G7W 68.30 dBW | PSK MOD Digital Video / Audio |
| | 28350.0000 - 28600.0000 MHz | | 36M0G7W 68.30 dBW | PSK MOD Digital Video / Audio |
| | 19700.0000 - 20200.0000 MHz | | 36M0G7W | PSK MOD Digital Video / Audio |
| | 18300.0000 - 18800.0000 MHz | | 36M0G7W | PSK MOD Digital Video / Audio |
| ANTENNA ID: | CDKA1 | 8.1 meters | ANDREW | ES81KAA-101 |
| | 29250.0000 - 30000.0000 MHz | | 36M0G7W 68.30 dBW | PSK MOD Digital Video / Audio |
| | 28350.0000 - 28600.0000 MHz | | 36M0G7W 68.30 dBW | PSK MOD Digital Video / Audio |
| | 19700.0000 - 20200.0000 MHz | | 36M0G7W | PSK MOD Digital Video / Audio |
| | 18300.0000 - 18800.0000 MHz | | 36M0G7W | PSK MOD Digital Video / Audio |

Points of Communication:

CRDUF - DIRECTV 10 - (102.8 W.L.)

CRDUF - DIRECTV 11 - (99.2 W.L.)

CRDUF - DIRECTV 8 (K) - (101 W.L.)

CRDUF - DIRECTV 9S - (101 W.L.)

CRDUF - SPACEWAY 1 - (103 W.L.)

CRDUF - SPACEWAY 2 - (99 W.L.)

SES-MOD-20070912-01273 E E000329 CLEAR CHANNEL SATELLITE SERVICES
 Application for Modification 08/30/2005 - 08/30/2020
 Grant of Authority Date Effective: 10/23/2007

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

SITE ID: CCSS INV 6.1A
 LOCATION: 76 INVERNESS DRIVE EAST, SUITE B, ARAPAHOE, Englewood, CO
 39 ° 34 ' 47.00 " N LAT. 104 ° 51 ' 35.00 " W LONG.

| ANTENNA ID: | INV 6.1 | 6.1 meters | VIASAT 8060 | 8060 | |
|-------------|-----------------------------|------------|-------------|-----------|------------|
| | 14000.0000 - 14500.0000 MHz | | 3M80G7D | 59.00 dBW | QPSK, Data |
| | 14000.0000 - 14500.0000 MHz | | 7M60G7D | 60.00 dBW | QPSK, Data |
| | 11700.0000 - 12200.0000 MHz | | 1M50G7D | 0.00 dBW | QPSK, Data |
| | 11700.0000 - 12200.0000 MHz | | 3M80G7D | 0.00 dBW | QPSK, Data |
| | 11700.0000 - 12200.0000 MHz | | 5M50G7D | | QPSK, DATA |

SITE ID: TT09612 .96M
 LOCATION: CONUS 50 UNITS (.96M ANTENNAS)
 0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

| ANTENNA ID: | TT09612 .9 | 0.96 meters | AvL Technologies | 960 AvSat | |
|-------------|-----------------------------|-------------|------------------|-----------|------------|
| | 14000.0000 - 14500.0000 MHz | | 3M80G7D | 52.50 dBW | QPSK, Data |
| | 14000.0000 - 14500.0000 MHz | | 5M50G7D | 54.00 dBW | QPSK, DATA |
| | 11700.0000 - 12200.0000 MHz | | 7M60G7D | 0.00 dBW | QPSK, Data |

SITE ID: TT0753 .75M
 LOCATION: CONUS 50 UNITS (.75M ANTENNAS)
 0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

| ANTENNA ID: | TT0753 .7 | 0.75 meters | AvL Techonologies | 750 iMoVSAT | |
|-------------|-----------------------------|-------------|-------------------|-------------|------------|
| | 14000.0000 - 14500.0000 MHz | | 1M50G7D | 45.00 dBW | QPSK, Data |
| | 11700.0000 - 12200.0000 MHz | | 3M80G7D | 0.00 dBW | QPSK, Data |
| | 11700.0000 - 12200.0000 MHz | | 7M60G7D | | QPSK, DATA |

SITE ID: TT0.9816
 LOCATION: CONUS 1000 UNITS (.98M ANTENNAS)

| ANTENNA ID: | TT0.9816 | 0.98 meters | PRODELIN | 1984 |
|-------------|----------|-------------|----------|------|
|-------------|----------|-------------|----------|------|

| | | | |
|---|------------|----------------------------|-----------|
| 14000.0000 - 14500.0000 MHz | 3M80G1D | 53.00 dBW | QPSK |
| 11700.0000 - 12200.0000 MHz | 4M60G1D | | QPSK |
| SITE ID: WAY 2.4M SUMAN | | | |
| LOCATION: 750 NORTH CR-41, LARIMER, BELLVUE, CO | | | |
| 40 ° 37 ' 2.00 " N LAT. | | 105 ° 19 ' 41.00 " W LONG. | |
| ANTENNA ID: WAY 2.4M | 2.4 meters | SUMAN | SM-T2.4RK |
| 14000.0000 - 14500.0000 MHz | 400KG1D | 54.50 dBW | QPSK |
| 11700.0000 - 12200.0000 MHz | 400KG1D | | QPSK |

Points of Communication:

- CCSS INV 6.1A - ALSAT - (ALSAT)
- TT0.9816 - AMC-1 - (101.0 W.L.)
- TT0753 .75M - AMC-4 (formerl GE-4 - (101 W.L.)
- TT0753 .75M - AMSC 1 - (103 W.L.)
- TT09612 .96M - AMC-4 (formerl GE-4 - (101 W.L.)
- TT09612 .96M - AMSC 1 - (103 W.L.)
- WAY 2.4M SUMAN - ALSAT - (ALSAT)

| | | | |
|-------------------------------|-----------|--------------------------|----------------------------|
| SES-REG-20070831-01206 | E E070207 | FOX BROADCASTING COMPANY | |
| Registration | | | 08/30/2007 - 08/30/2022 |
| Grant of Authority | | | Date Effective: 10/23/2007 |

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

| | | | |
|---------------------------|--|---------------------------|--|
| SITE ID: | 1 | | |
| LOCATION: | ONE PEGASUS PLAZA (WDBD), HINDS, JACKSON, MS | | |
| 32 ° 16 ' 36.50 " N LAT. | | 90 ° 17 ' 42.30 " W LONG. | |
| ANTENNA ID: 1 | 4.5 meters | ANDREW CORPORATION | ESA 4.5 |
| 3700.0000 - 4200.0000 MHz | 36M0G7W | 0.00 dBW | DIGITAL VIDEO WITH ASSOCIATED AUDIO SUB-CARRIERS |
| 3700.0000 - 4200.0000 MHz | 36M0F8W | 0.00 dBW | ANALOG VIDEO WITH ASSOCIATED AUDIO SUB-CARRIERS. |

Points of Communication:

- 1 - ALSAT - (ALSAT)
-

SES-REG-20070831-01208 E E070209 FOX BROADCASTING COMPANY
Registration 08/30/2007 - 08/30/2022
Grant of Authority Date Effective: 10/23/2007

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 2701 UNION EXTENDED (WJKT), SHELBY, MEMPHIS, TN
35 ° 8 ' 9.70 " N LAT. 89 ° 58 ' 17.30 " W LONG.

| | | | | |
|-------------|---------------------------|------------|--------------------|---|
| ANTENNA ID: | 1 | 4.5 meters | ANDREW CORPORATION | ESA 4.5 |
| | 3700.0000 - 4200.0000 MHz | | 36M0F8W | 0.00 dBW |
| | | | | ANALOG VIDEO WITH ASSOCIATED AUDIO SUB-CARRIERS. |
| | 3700.0000 - 4200.0000 MHz | | 36M0G7W | 0.00 dBW |
| | | | | DIGITAL VIDEO WITH ASSOCIATED AUDIO SUB-CARRIERS. |

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20071016-01422 E E874275 CBS Communications Services Inc.
Renewal 11/27/2007 - 11/27/2022
Grant of Authority Date Effective: 10/17/2007

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 | 1.5M SMK |
| | 14000.0000 - 14500.0000 MHz | | 36M0G7W | 59.20 dBW |
| | 11700.0000 - 12200.0000 MHz | | 36M0G7W | |

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20071018-01433 E E874281 Western Broadband, LLC
Renewal 11/20/2007 - 11/20/2022
Grant of Authority Date Effective: 10/19/2007

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 38646 S. RIDGEVIEW BLVD., PINAL, TUCSON, AZ
32 ° 31 ' 38.00 " N LAT. 110 ° 52 ' 48.00 " W LONG.

ANTENNA ID: 1 3.2 meters SCIENTIFIC ATLANTA 9000

3700.0000 - 4200.0000 MHz 36000F9

ANTENNA ID: 2 3.7 meters MIRALITE

3700.0000 - 4200.0000 MHz 36000F9

ANTENNA ID: 3 3.7 meters PRODELIN

3700.0000 - 4200.0000 MHz 36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20071018-01435 E E980060 ARCO COMMUNICATIONS INC

Renewal

01/09/2008 - 01/09/2023

Grant of Authority

Date Effective: 10/23/2007

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: VARIOUS

ANTENNA ID: 1 4.5 meters ANDREW ESA 45-46A

5925.0000 - 6425.0000 MHz 351KG7D 61.80 dBW

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20071019-01439 E E880105 QVC, Inc.

Renewal

Date Effective:

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: CHESTER, EAST GOSHEN, PA
39 ° 59 ' 19.00 " N LAT. 75 ° 33 ' 33.00 " W LONG.

ANTENNA ID: 1 4.1 meters COMTECH ANTENNA CORP .

5925.0000 - 6425.0000 MHz 36000F9 72.40 dBW

3700.0000 - 4200.0000 MHz

36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-STA-20071016-01424 E E950499 DG Consents Sub, Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 10/18/2007

Class of Station:

Extension of special temporary authority is GRANTED with conditions for an additional 30 days beginning October 18, 2007 and ending November 16, 2007.

Points of Communication:

SES-STA-20071016-01425 E E040264 DG Consents Sub, Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 10/18/2007

Class of Station:

Extension of special temporary authority is GRANTED with conditions for an additional 30 days beginning October 18, 2007 and ending November 16, 2007.

Points of Communication:

SES-STA-20071022-01447 E E070119 PetroCom License Corporation

Special Temporary Authority

Grant of Authority

Date Effective: 10/23/2007

Class of Station:

Special Temporary Authority is GRANTED for a period of 30 days beginning October 25, 2007 and ending November 23, 2007.

Points of Communication:

Dismissal

SES-LIC-20071016-01423 E070241 Hearst-Argyle Stations, Inc.

Application dismissed without prejudice as defective, see DA 07-4334, released October 18, 2007.

SURRENDER

SES-LIC-20010314-00530 E010077 Skyler Media Services, Inc.

Licensee has surrendered Earth Station Authorization per letter dated October 17, 2007.

SES-LIC-20010627-01162 E010174 Northfield Park Associates, LLC

Licensee has surrendered Earth Station License Authorization per letter dated September 10, 2007.

SES-LIC-20020423-00646 E020102 Explorer Pipeline Company

Licensee has surrendered Earth Station License per letter dated October 10, 2007.

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