



3700.0000 - 4200.0000 MHz	520KG7W		DIGITAL, DATA
5925.0000 - 6425.0000 MHz	520KG7W	52.50 dBW	DIGITAL, DATA

**Points of Communication:**

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

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<b>SES-LIC-20080724-00974</b>	E E080175	Teck Cominco Alaska Incorporated	09/02/2008 - 09/02/2023
Application for Authority			Date Effective:
Grant of Authority			09/02/2008

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
 LOCATION: Rural - Noatak City, Northwest Arctic Burea, Red Dog Mine  
 68 ° 4 ' 19.00 " N LAT. 162 ° 52 ' 34.00 " W LONG.

ANTENNA ID: 1	4.5 meters	Andrew Corp.	Prime Focus
3700.0000 - 4200.0000 MHz	51K2G7W		Digital traffic, various FEC, data rates, modulation and information
3700.0000 - 4200.0000 MHz	36M0G7W		Digital traffic, various FEC, data rates, modulation and information
5925.0000 - 6425.0000 MHz	51K2G7W	49.17 dBW	Digital traffic, various FEC, data rates, modulation and information
5925.0000 - 6425.0000 MHz	36M0G7W	71.77 dBW	Digital traffic, various FEC, data rates, modulation and information

**Points of Communication:**

1 - ALSAT - (ALSAT)

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<b>SES-LIC-20080725-00991</b>	E E080176	Moonlink Satellite , Inc	09/08/2008 - 09/08/2023
Application for Authority			Date Effective:
Grant of Authority			09/08/2008

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

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

SITE ID: 1  
 LOCATION: VARIOUS

ANTENNA ID: T1	2.4 meters	Satcom/RSI	240 KVO
14000.0000 - 14500.0000 MHz	36M0F8W	75.20 dBW	Analog Video with Associated Audio Subcarriers
14000.0000 - 14500.0000 MHz	36M0G7W	72.20 dBW	Digital Video and Audio

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14000.0000 - 14500.0000 MHz	6M00G7W -	67.00 dBW	Digital Video and Audio
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**Points of Communication:**

1 - ALSAT - (ALSAT)

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<b>SES-LIC-20080804-01020</b>	E	E080179	KSWB Inc.	09/08/2008 - 09/08/2023
Application for Authority				Date Effective: 09/08/2008
Grant of Authority				

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

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: VARIOUS

ANTENNA ID:	T1	1.2 meters	Advantech	120
14000.0000 - 14500.0000 MHz	2M00G7W	55.50 dBW	Digital Video and Audio	
11700.0000 - 12200.0000 MHz	2M00G7W	Digital, Video and Audio		
11700.0000 - 12200.0000 MHz	36M0G7W	Digital, Video and Audio		
14000.0000 - 14500.0000 MHz	36M0G7W	63.50 dBW	Digital Video and Audio	

**Points of Communication:**

1 - ALSAT - (ALSAT)

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<b>SES-MFS-20080617-00804</b>	E	E000166	HNS License Sub, LLC	09/13/2000 - 09/13/2010
Modification				Date Effective: 09/09/2008
Grant of Authority				

**Class of Station:** VSAT Network

**Nature of Service:** Fixed Satellite Service

SITE ID: TF TR 1.2M  
LOCATION: CONUS, AK, HI, PR, VI 1.2 M (50,000 UNITS)

ANTENNA ID:	TF TR 1.2	1.2 meters	PRODELIN	1134
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER	
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER	
14000.0000 - 14500.0000 MHz	800KG7W	46.10 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER	

14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID: R1.2                      1.2 meters                      PRODELIN                      1134

SITE ID: TR 74CM  
LOCATION: VSAT 0.74M (98 x 56 cm) (350,000 UNITS), CONUS, AK,HI,PR, VI

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

14000.0000 - 14500.0000 MHz	200KG7D	42.00 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	42.00 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	42.00 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

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SITE ID: TR 1.2M  
LOCATION: VSAT 1.2M (100,000 UNITS) CONUS, AK, HI, VI, PR

ANTENNA ID:	TR 1.2M	1.2 meters	PRODELIN CORP.	1134
	14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
	11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID:	TR 1.8	1.8 meters	PRODELIN CORP.	1184
	14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	49.70 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID: HubB7.6	7.6 meters	ANDREW CORP.	ES76K-1
14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	53.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		QPSK, DIGITAL, 128 KSPS, RETURN CARRIER

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

ANTENNA ID: TR 1.0	1 meters	PRODELIN CORP. (135 cm x 58 cm)	1102
14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	QPSK, DIGITAL 128 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	800KG7D	44.00 dBW	OQPSK, DIGITAL 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.00 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER

SITE ID: TF TR 98CM

LOCATION: VSAT 0.98M temporary-fixed (54,000 UNITS), CONUS, AK, HI, PR, VI

ANTENNA ID: TF TR 98CM 0.98 meters PRODELIN 3981-226;9008688

14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	DIGITAL, PSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	DIGITAL, PSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	DIGITAL, PSK, DIGITAL, 1024 KSPS, RETURN CARRIER

ANTENNA ID: TFTR 98CM 0.98 meters RAVEN MANUFACTURING LIMITED HNS-AN-98R-KU

SITE ID: TF TR 74CM

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

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

14000.0000 - 14500.0000 MHz	200KG7D	42.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7W	42.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	42.00 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

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



11700.0000 - 12200.0000 MHz	400KG7D	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

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

ANTENNA ID: TR 2.4M      2.4 meters      PRODELIN CORP.      1244

14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	52.20 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

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

ANTENNA ID: HubC 7.6M      7.6 meters      NEC      APS-12/14-F64A

14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	65.00 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	70.80 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

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

ANTENNA ID: HubD 7.6M	7.6 meters	NEC	APS-12/14-F0764A
14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	65.00 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	70.80 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	OQPSK, DATA, 1024 KSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: HUB-E 6.1M  
LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD  
39 ° 10 ' 46.00 " N LAT. 77 ° 14 ' 49.00 " W LONG.

ANTENNA ID: HubE 6.1M	6.1 meters	VERTEX	6.1KPK
14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER

14000.0000 - 14500.0000 MHz	1M60G7D	58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D	67.70 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	79.70 dBW	OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	97.70 dBW	OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DATA, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: HUB-F 5.6M

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

ANTENNA ID:	HubF 5.6M	5.6 meters	ANDREW	ES56-1
14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	1M60G7D	58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	6M00G7D	67.70 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER	
14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER	

14000.0000 - 14500.0000 MHz	24M0G7D	77.70 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	77.70 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		QPSK, DATA, 128 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		QPSK, DATA, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 522 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

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

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

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

ANTENNA ID: MESH 3.5M	3.5 meters	COMTECH	846400G1
14000.0000 - 14500.0000 MHz	2M46G7D	66.20 dBW	BPSK OR QPSK, DATA, MESH CARRIER

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11700.0000 - 12200.0000 MHz	2M46G7D			BPSK OR OQPSK, DATA, MESH CARRIER
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SITE ID: MESH 1.8M  
LOCATION: CONUS, AK, HI, PR, VI (5,000 1.8M UNITS)

ANTENNA ID: MESH 1.8M	1.8 meters	HUGHES NETWORK SYSTEMS	PES-RFT-180
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14000.0000 - 14500.0000 MHz	156KG7D	48.60 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
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11700.0000 - 12200.0000 MHz	156KG7D		BPSK OR OQPSK, DATA, MESH CARRIER
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SITE ID: MESH 2.4M  
LOCATION: CONUS, AK, HI, PR, VI (5,000 2.4M UNITS)

ANTENNA ID: MESH 2.4M	2.4 meters	HUGHES NETWORK SYSTEMS	PES-RFT-240
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14000.0000 - 14500.0000 MHz	307KG7D	53.70 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
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11700.0000 - 12200.0000 MHz	307KG7D		BPSK OR OQPSK, DATA, MESH CARRIER
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SITE ID: MESH 1.2M  
LOCATION: CONUS, AK, HI, PR, VI (5,000 1.2M UNITS)

ANTENNA ID: MESH 1.2M	1.2 meters	HUGHES NETWORK SYSTEMS	PES-RFT-120
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14000.0000 - 14500.0000 MHz	156KG7D	45.00 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
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11700.0000 - 12200.0000 MHz	156KG7D		BPSK OR OQPSK, DATA, MESH CARRIER
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SITE ID: TR 74-2 CM  
LOCATION: CONUS, AK, HI, VI, PR 500,000 (.74 METER ANTENNAS)

ANTENNA ID: TR 74-2	0.74 meters	RAVEN; PRODELIN	HNS-1035610 ;1741
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14000.0000 - 14500.0000 MHz	200KG7D	41.70 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
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11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA
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11700.0000 - 12200.0000 MHz	12M0G7D	QQPSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D	QQPSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	36M0G7D	QQPSK, DATA, 30 MSPS, MULTIMEDIA

SITE ID: TFTR 74-2CM  
LOCATION: CONUS, AK, HI, VI, PR 50,000 (.74 METER ANTENNAS)

ANTENNA ID: TFTR 74-2C	0.74 meters	RAVEN; PRODELIN	HNS-1035610;1741
14000.0000 - 14500.0000 MHz	200KG7D	41.70 dBW	QQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	QQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	QQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	QQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D	QQPSK, DATA, 5 MSPS, MULTIMEDIA	
11700.0000 - 12200.0000 MHz	12M0G7D	QQPSK, DATA, 10 MSPS, MULTIMEDIA	
11700.0000 - 12200.0000 MHz	24M0G7D	QQPSK, DATA, 20 MSPS, MULTIMEDIA	
11700.0000 - 12200.0000 MHz	36M0G7D	QQPSK, DATA, 30 MSPS, MULTIMEDIA	

SITE ID: HUB H (11.1M)  
LOCATION: 17633 TECHNOLOGY BLVD., WASHINGTON, HAGERSTOWN, MD  
39 ° 35 ' 56.30 " N LAT. 77 ° 45 ' 17.90 " W LONG.

ANTENNA ID: HUB H	11.1 meters	VERTEX	11.1 KPK
14470.0000 - 14497.0000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14470.0000 - 14497.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14470.0000 - 14497.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14470.0000 - 14497.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE

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14253.0000 - 14311.0000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14253.0000 - 14311.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14253.0000 - 14311.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14253.0000 - 14311.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14246.5000 - 14366.5000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14122.5000 - 14149.5000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	6M0G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
12170.0000 - 12197.0000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE

12170.0000 - 12197.0000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	400KG7D	DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	400KG7D	DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	400KG7D	DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	400KG7D	DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE

SITE ID: Hub 1 (3.9 M)  
LOCATION: CONUS, AK, HI, PR, VI, Montgomery, Germantown, MD

ANTENNA ID: HUB 1      3.9 meters      ANDREW CORPORATION      MILSATCOM 3.9 METER

11700.0000 - 12200.0000 MHz      200KG7D      PSK, DATA, INROUTE, 128 KSPS



11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DATA, INROUTE, 1024 KSPS
14000.0000 - 14500.0000 MHz	36M0G7D	77.60 dBW	PSK, DATA, OUTROUTE, 30 MSPS
14000.0000 - 14500.0000 MHz	1M60G7D	64.80 dBW	PSK, DATA, OUTROUTE, 1024 KSPS
SITE ID: TR 98CM			
LOCATION: 200,000 (98CM ANTENNAS) CONUS, AK, HI, VI, PR			
ANTENNA ID: TR 98CM	0.98 meters	PRODELIN	3981-226;9008688
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	DIGITAL PSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	DIGITAL PSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	DIGITAL PSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	DIGITAL PSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		DIGITAL PSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	12M0G7D		DIGITAL PSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D		DIGITAL PSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	36M0G7D		DIGITAL PSK, DATA, 30 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 12200.0000 MHz	24M0G7D	OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER	
117700.000 - 12200.0000 MHz	36M0G7D	OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER	
ANTENNA ID: TR 98CM-2	0.98 meters	RAVEN MANUFACTURING LIMITED	3981-226;9008688

**Points of Communication:**

Hub 1 (3.9 M) - ALSAT - (ALSAT)

HUB H (11.1M) - INTELSAT AMERICAS-6 - (93 W.L.)

HUB-A - ALSAT - (ALSAT)

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

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

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

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

HUB-B - ALSAT - (ALSAT)

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

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

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

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

HUB-C 7.6M - ALSAT - (ALSAT)

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

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

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

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

HUB-D 7.6M - ALSAT - (ALSAT)

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

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

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

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

HUB-E 6.1M - ALSAT - (ALSAT)

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

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

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

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

HUB-F 5.6M - ALSAT - (ALSAT)

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

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

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

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

HUB-G 4.6M - ALSAT - (ALSAT)

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

MESH 1.2M - ALSAT - (ALSAT)

MESH 1.8M - ALSAT - (ALSAT)

MESH 2.4M - ALSAT - (ALSAT)

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

TF TR 1.2M - ALSAT - (ALSAT)

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

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

TF TR 74CM - AMC-4 (formerl GE-4 - (101 W.L.)

TF TR 74CM - AMC-6 - (72 W.L.)

TF TR 74CM - AMSC-9 - (85 W.L.)

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

TF TR 74CM - GALAXY 16 - (99 W.L.)

TF TR 74CM - GALAXY 17 - (91 W.L.)

TF TR 74CM - GALAXY 18 - (123 W.L.)

TF TR 74CM - GALAXY 19 - (97 W.L.)

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

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

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

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

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TF TR 74CM - INTELSAT AMERICAS 5 - (97 W.L.)

TF TR 74CM - INTELSAT AMERICAS-6 - (93 W.L.)

TF TR 74CM - SATMEX 6 - (113 W.L.)

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

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

TF TR 98CM - AMC-4 (formerl GE-4 - (101 W.L.)

TF TR 98CM - AMC-6 - (72 W.L.)

TF TR 98CM - AMSC-9 - (85 W.L.)

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

TF TR 98CM - GALAXY 16 - (99 W.L.)

TF TR 98CM - GALAXY 17 - (91 W.L.)

TF TR 98CM - GALAXY 18 - (123 W.L.)

TF TR 98CM - GALAXY 19 - (97 W.L.)

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

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

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

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

TF TR 98CM - INTELSAT AMERICAS 5 - (97 W.L.)

TF TR 98CM - INTELSAT AMERICAS-6 - (93 W.L.)

TF TR 98CM - SATMEX 6 - (113 W.L.)

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

TFTR 74-2CM - AMC-3 - (87 W.L.)

TFTR 74-2CM - AMC-4 (formerl GE-4 - (101 W.L.)

TFTR 74-2CM - AMC-6 - (72 W.L.)

TFTR 74-2CM - AMSC-9 - (85 W.L.)

TFTR 74-2CM - GALAXY 10R - (123 W.L.)

TFTR 74-2CM - GALAXY 16 - (99 W.L.)

TFTR 74-2CM - GALAXY 17 - (91 W.L.)

TFTR 74-2CM - GALAXY 18 - (123 W.L.)

TFTR 74-2CM - GALAXY 19 - (97 W.L.)

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TFTR 74-2CM - GALAXY III-C - (95 W.L.)

TFTR 74-2CM - GALAXY XI - (91 W.L.)

TFTR 74-2CM - HORIZONS 1 - (127 DEG WL)

TFTR 74-2CM - IA-8 - (89 W.L.)

TFTR 74-2CM - INTELSAT AMERICAS 5 - (97 W.L.)

TFTR 74-2CM - INTELSAT AMERICAS-6 - (93 W.L.)

TFTR 74-2CM - SATMEX 6 - (113 W.L.)

TFTR 74-2CM - SATMEX-5 - (116.8 W.L.)

TR 1.0M - ALSAT - (ALSAT)

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

TR 1.2M - ALSAT - (ALSAT)

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

TR 1.8M - ALSAT - (ALSAT)

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

TR 2.4M - ALSAT - (ALSAT)

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

TR 74-2 CM - AMC-3 - (87 W.L.)

TR 74-2 CM - AMC-4 (formerl GE-4 - (101 W.L.)

TR 74-2 CM - AMC-6 - (72 W.L.)

TR 74-2 CM - AMSC-9 - (85 W.L.)

TR 74-2 CM - GALAXY 10R - (123 W.L.)

TR 74-2 CM - GALAXY 16 - (99 W.L.)

TR 74-2 CM - GALAXY 17 - (91 W.L.)

TR 74-2 CM - GALAXY 18 - (123 W.L.)

TR 74-2 CM - GALAXY 19 - (97 W.L.)

TR 74-2 CM - GALAXY III-C - (95 W.L.)

TR 74-2 CM - GALAXY XI - (91 W.L.)

TR 74-2 CM - HORIZONS 1 - (127 DEG WL)

TR 74-2 CM - IA-8 - (89 W.L.)

TR 74-2 CM - INTELSAT AMERICAS 5 - (97 W.L.)

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TR 74-2 CM - INTELSAT AMERICAS-6 - (93 W.L.)

TR 74-2 CM - SATMEX 6 - (113 W.L.)

TR 74-2 CM - SATMEX-5 - (116.8 W.L.)

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

TR 74CM - AMC-4 (formerl GE-4 - (101 W.L.)

TR 74CM - AMC-6 - (72 W.L.)

TR 74CM - AMSC-9 - (85 W.L.)

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

TR 74CM - GALAXY 17 - (91 W.L.)

TR 74CM - GALAXY 18 - (123 W.L.)

TR 74CM - GALAXY 19 - (97 W.L.)

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

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

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

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

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

TR 74CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 74CM - INTELSAT AMERICAS-6 - (93 W.L.)

TR 74CM - SATMEX 6 - (113 W.L.)

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

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

TR 98CM - AMC-4 (formerl GE-4 - (101 W.L.)

TR 98CM - AMC-6 - (72 W.L.)

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

TR 98CM - GALAXY 16 - (99 W.L.)

TR 98CM - GALAXY 17 - (91 W.L.)

TR 98CM - GALAXY 18 - (123 W.L.)

TR 98CM - GALAXY 19 - (97 W.L.)

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

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



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**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: 22401 JUNIPER FLATS ROAD, RIVERSIDE, NUEVO, CA  
33 ° 47 ' 40.00 " N LAT. 117 ° 5 ' 5.40 " W LONG.

ANTENNA ID:	1A	8.1 meters	VERTEX/RSI	KPK
14000.0000 - 14500.0000 MHz		1M00G7D	52.40 dBW	DIGITAL TT&C CARRIER
14000.0000 - 14500.0000 MHz		200KG7D	62.80 dBW	DIGITAL TT&C CARRIER
14000.0000 - 14500.0000 MHz		1M00F8D	62.80 dBW	ANALOG TT&C CARRIER
14000.0000 - 14500.0000 MHz		16K0F8D	57.80 dBW	ANALOG TT&C CARRIER
11700.0000 - 12200.0000 MHz		16K0F8D		ANALOG TT&C CARRIER
11700.0000 - 12200.0000 MHz		1M00F8D		ANALOG TT&C CARRIER
11700.0000 - 12200.0000 MHz		200KG7D		DIGITAL TT&C CARRIER
11700.0000 - 12200.0000 MHz		1M00G7D		DIGITAL TT&C CARRIER

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20031110-01581 E E6530 VI-TEL, LLC  
Renewal 12/09/2003 - 12/09/2018  
Grant of Authority Date Effective: 11/25/2003

**Class of Station:** Fixed Earth Stations

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

Licensee has change the Licensee name and the Contact information only per e-mail letter request dated September 3, 2008.

SITE ID: 1

LOCATION: LINCOLN, DAVENPORT, OK  
35 ° 42 ' 59.00 " N LAT. 96 ° 45 ' 55.00 " W LONG.

ANTENNA ID:	1	5 meters	ANIXTER-MARK	ES-40200CD
3700.0000 - 4200.0000 MHz		36M0F3F		

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20080829-01119 E E890931 RCN License Subsidiary, Inc.  
Renewal 10/06/2008 - 10/06/2023  
Grant of Authority Date Effective: 09/04/2008

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

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

SITE ID: 1  
LOCATION: VARIOUS

ANTENNA ID: 1 4.1 meters COMTECH OFFSAT  
5925.0000 - 6425.0000 MHz 36M0F3F 63.90 dBW

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20080829-01120 E E910543 RCN License Subsidiary, Inc.  
Renewal 10/04/2008 - 10/04/2023  
Grant of Authority Date Effective: 09/04/2008

**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 DALSAT ARTIC  
5925.0000 - 6425.0000 MHz 36M0F3F 70.80 dBW

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20080829-01121 E E910255 RCN License Subsidiary, Inc.  
Renewal 09/25/2008 - 09/25/2023  
Grant of Authority Date Effective: 09/04/2008

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

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

SITE ID: 1  
LOCATION: VARIOUS

ANTENNA ID: 1 4.1 meters COMTECH "18FT OFFSAT"  
5925.0000 - 6425.0000 MHz 36M0F8F 72.40 dBW  
5925.0000 - 6425.0000 MHz 7M92G7W 75.90 dBW

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**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES - RWL - 20080829 - 01122**    E E910150    RCN License Subsidiary, Inc.  
Renewal    09/25/2008 - 09/25/2023  
Grant of Authority    Date Effective:    09/04/2008

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

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

SITE ID:    1  
LOCATION:    VARIOUS

ANTENNA ID:	1	4.1 meters	COMTECH	"18FT OFFSAT"
	5925.0000 - 6425.0000 MHz		36M0F8F	72.40 dBW
	5925.0000 - 6425.0000 MHz		7M92G7W	75.90 dBW

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES - RWL - 20080829 - 01123**    E E910149    RCN License Subsidiary, Inc.  
Renewal    09/25/2008 - 09/25/2023  
Grant of Authority    Date Effective:    09/04/2008

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

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

SITE ID:    1  
LOCATION:    VARIOUS

ANTENNA ID:	1	4.1 meters	COMTECH	"18FT OFFSAT"
	5925.0000 - 6425.0000 MHz		36M0F8F	72.40 dBW
	5925.0000 - 6425.0000 MHz		7M92G7W	75.90 dBW

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES - RWL - 20080829 - 01124**    E E910148    RCN License Subsidiary, Inc.  
Renewal    09/25/2008 - 09/25/2023  
Grant of Authority    Date Effective:    09/04/2008

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

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



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1 - ALSAT - (ALSAT)

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SES-RWL-20080829-01127 E E950265 RCN License Subsidiary, Inc.  
Renewal  
Grant of Authority

09/08/2008 - 09/08/2023  
Date Effective: 09/04/2008

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

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

SITE ID: 1  
LOCATION: VARIOUS

ANTENNA ID: 1 3.8 meters PRODELIN 1381  
5925.0000 - 6425.0000 MHz 6M00G1F 66.90 dBW  
3700.0000 - 4200.0000 MHz

**Points of Communication:**

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1 - ALSAT - (ALSAT)

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SES-RWL-20080829-01128 E E950264 RCN License Subsidiary, Inc.  
Renewal  
Grant of Authority

09/08/2008 - 09/08/2023  
Date Effective: 09/04/2008

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

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

SITE ID: 1  
LOCATION: VARIOUS

ANTENNA ID: 1 3.8 meters PRODELIN 1381  
5925.0000 - 6425.0000 MHz 6M00G1F 66.90 dBW  
3700.0000 - 4200.0000 MHz

**Points of Communication:**

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1 - ALSAT - (ALSAT)

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SES-RWL-20080829-01129 E E950263 RCN License Subsidiary, Inc.  
Renewal  
Grant of Authority

09/08/2008 - 09/08/2023  
Date Effective: 09/04/2008

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

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

SITE ID: 1  
LOCATION: VARIOUS

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ANTENNA ID:	1	3.8 meters	PRODELIN	1381
	5925.0000 - 6425.0000 MHz		6M00G1F	66.90 dBW
	3700.0000 - 4200.0000 MHz			

**Points of Communication:**

1 - ALSAT - (ALSAT)

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<b>SES-RWL-20080829-01130</b>	E	E950262	RCN License Subsidiary, Inc.	
Renewal				09/08/2008 - 09/08/2023
Grant of Authority				Date Effective: 09/04/2008

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

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

SITE ID: 1  
LOCATION: VARIOUS

ANTENNA ID:	1	3.8 meters	PRODELIN	1381	
	14000.0000 - 14500.0000 MHz		36M0F3F	78.60 dBW	STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	14000.0000 - 14500.0000 MHz		36M0G7W	78.60 dBW	BPSK, QPSK, 8PSK, QA, M, FEC RATES 1/2-7/8, VARIOUS DATA RATES FROM 45 MBPS, VARIOUS INFO.
	14000.0000 - 14500.0000 MHz		51K2G7W	66.10 dBW	BPSK, QPSK, 8PSK, QA, M, FEC RATES 1/2-7/8, VARIOUS DATA RATES FROM 64 MBPS, VARIOUS INFO.
	11700.0000 - 12200.0000 MHz		36M0F3F		STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
	11700.0000 - 12200.0000 MHz		36M0G7W		BPSK, QPSK, 8PSK, QA, M, FEC RATES 1/2-7/8, VARIOUS DATA RATES FROM 45 MBPS, VARIOUS INFO.
	11700.0000 - 12200.0000 MHz		51K2G7W		BPSK, QPSK, 8PSK, QA, M, FEC RATES 1/2-7/8, VARIOUS DATA RATES FROM 64 MBPS, VARIOUS INFO.
	5925.0000 - 6425.0000 MHz		6M00G1F	66.90 dBW	
	3700.0000 - 4200.0000 MHz		6M00G1F		

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES - RWL - 20080829 - 01133 E E980302 National Digital Television Center, Inc.  
Renewal 09/04/2008 - 09/04/2023  
Grant of Authority Date Effective: 09/04/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
LOCATION: 12312 W. OLYMPIC BLVD, LOS ANGELES, LOS ANGELES, CA  
34 ° 1 ' 52.00 " N LAT. 118 ° 27 ' 18.00 " W LONG.

ANTENNA ID: 1 6.1 meters SCIENTIFIC ATLANTA 8060

14000.0000 - 14500.0000 MHz	9M00G7W	80.00 dBW
14000.0000 - 14500.0000 MHz	20M0G7W	82.50 dBW
14000.0000 - 14500.0000 MHz	36M0G7W	82.50 dBW
14000.0000 - 14500.0000 MHz	27M0F8W	82.50 dBW
14000.0000 - 14500.0000 MHz	36M0F8W	82.50 dBW
14000.0000 - 14500.0000 MHz	27M0F3F	82.50 dBW
14000.0000 - 14500.0000 MHz	36M0F3F	82.50 dBW
11700.0000 - 12200.0000 MHz	9M00G7W	
11700.0000 - 12200.0000 MHz	20M0G7W	
11700.0000 - 12200.0000 MHz	36M0G7W	
11700.0000 - 12200.0000 MHz	27M0F8W	
11700.0000 - 12200.0000 MHz	36M0F8W	
11700.0000 - 12200.0000 MHz	27M0F3F	
11700.0000 - 12200.0000 MHz	36M0F3F	

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES - RWL - 20080829 - 01134 E E980304 National Digital Television Center, Inc.  
Renewal 09/04/2008 - 09/04/2023  
Grant of Authority Date Effective: 09/04/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
 LOCATION: 12312 W. OLYMPIC BLVD, LOS ANGELES, LOS ANGELES, CA  
 34 ° 1 ' 52.00 " N LAT. 118 ° 27 ' 18.00 " W LONG.

ANTENNA ID:	1	6.1 meters	SCIENTIFIC ATLANTA	8060
14000.0000 - 14500.0000 MHz			9M00G7W	80.00 dBW
14000.0000 - 14500.0000 MHz			20M0F7W	82.50 dBW
14000.0000 - 14500.0000 MHz			36M0G7W	82.50 dBW
14000.0000 - 14500.0000 MHz			27M0F8W	82.50 dBW
14000.0000 - 14500.0000 MHz			36M0F8W	82.50 dBW
14000.0000 - 14500.0000 MHz			27M0F3F	82.50 dBW
14000.0000 - 14500.0000 MHz			36M0F3F	82.50 dBW
11700.0000 - 12200.0000 MHz			9M00G7W	
11700.0000 - 12200.0000 MHz			20M0G7W	
11700.0000 - 12200.0000 MHz			36M0G7W	
11700.0000 - 12200.0000 MHz			27M0F8W	
11700.0000 - 12200.0000 MHz			36M0F8W	
11700.0000 - 12200.0000 MHz			27M0F3F	
11700.0000 - 12200.0000 MHz			36M0F3F	

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20080902-01142 E E881195 Gannett Pacific Corporation  
 Renewal 11/18/2008 - 11/18/2023  
 Grant of Authority Date Effective: 09/04/2008

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

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

SITE ID: 1  
 LOCATION: WBIR-TV ,1513 HUTCHINSON AVE. KNOXVILLE, KNOX, TN 37917, VARIOUS

ANTENNA ID:	1	2.6 meters	VERTEX	2.6 METER DMK-03
14000.0000 - 14500.0000 MHz			36M0F8W	77.10 dBW
				DIGITAL MCPC QPSK CARRIER USED FOR VIDEO/VOICE/DATA.







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SES-RWL-20080903-01148 E E980435 ASSOCIATED PRESS  
Renewal 09/11/2008 - 09/11/2023  
Grant of Authority Date Effective: 09/08/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
LOCATION: 406 CENTRAL (NEWS EXAMINER), FAYETTE, CONNERSVILLE, IN  
39 ° 38 ' 25.00 " N LAT. 85 ° 8 ' 22.00 " W LONG.

ANTENNA ID:	1	2.8 meters	RADIATIONS	280K
	3700.0000 - 4200.0000 MHz		200KF3A	ANALOG
	3700.0000 - 4200.0000 MHz		180KF2D	DIGITAL
	3700.0000 - 4200.0000 MHz		2M50F1D	DIGITAL

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20080903-01149 E E980432 ASSOCIATED PRESS  
Renewal 09/11/2008 - 09/11/2023  
Grant of Authority Date Effective: 09/09/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
LOCATION: 215 CENTERVIEW DRIVE (AP), WILLIAMSON, BRENTWOOD, TN  
36 ° 1 ' 50.00 " N LAT. 86 ° 46 ' 17.00 " W LONG.

ANTENNA ID:	1	2.8 meters	RADIATIONS	280K
	3700.0000 - 4200.0000 MHz		200KF3A	ANALOG
	3700.0000 - 4200.0000 MHz		180KF2D	DIGITAL
	3700.0000 - 4200.0000 MHz		2M50F1D	DIGITAL

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20080903-01150 E E980422 ASSOCIATED PRESS  
Renewal 09/11/2008 - 09/11/2023  
Grant of Authority Date Effective: 09/09/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1

LOCATION: 817 12TH AVENUE (DAILY SUN), CHEYENNE, SIDNEY, NE  
41 ° 8 ' 43.00 " N LAT. 102 ° 58 ' 44.00 " W LONG.

ANTENNA ID:	1	2.8 meters	RADIATION	280K
	3700.0000 - 4200.0000 MHz		200KF3A	ANALOG
	3700.0000 - 4200.0000 MHz		180KF2D	DIGITAL
	3700.0000 - 4200.0000 MHz		2M50F1D	DIGITAL

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-RWL-20080903-01151** E E980423 ASSOCIATED PRESS  
Renewal 09/11/2008 - 09/11/2023  
Grant of Authority Date Effective: 09/09/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1

LOCATION: 1751 SOUTH THOMPSON (DAILY SUN), COCONINO, FLAGSTAFF, AZ  
35 ° 11 ' 54.00 " N LAT. 111 ° 39 ' 14.00 " W LONG.

ANTENNA ID:	1	2.8 meters	RADIATIONS	280K
	3700.0000 - 4200.0000 MHz		200KF3A	ANALOG
	3700.0000 - 4200.0000 MHz		180KF2D	DIGITAL
	3700.0000 - 4200.0000 MHz		2M50F1D	DIGITAL

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-RWL-20080903-01152** E E980424 ASSOCIATED PRESS  
Renewal 09/11/2008 - 09/11/2023  
Grant of Authority Date Effective: 09/09/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1

LOCATION: 3011 ALTAMA AVE (BRUNSWICK NEWS), GLYNN, BRUNSWICK, GA  
31 ° 10 ' 22.00 " N LAT. 81 ° 29 ' 31.00 " W LONG.

ANTENNA ID:	1	2.8 meters	RADIATIONS	280K
	3700.0000 - 4200.0000 MHz		200KF3A	ANALOG
	3700.0000 - 4200.0000 MHz		180KF2D	DIGITAL
	3700.0000 - 4200.0000 MHz		2M50F1D	DIGITAL

**Points of Communication:**

1 - ALSAT - (ALSAT)

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<b>SES-RWL-20080903-01153</b>	E E980425	ASSOCIATED PRESS	
Renewal			09/11/2008 - 09/11/2023
Grant of Authority			Date Effective: 09/09/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
 LOCATION: 1555 N. 200 W. (DAILY HERALD), UTAH, PROVO, UT  
 40 ° 15 ' 15.00 " N LAT. 111 ° 39 ' 43.00 " W LONG.

ANTENNA ID:	1	2.8 meters	RADIATION	280K
	3700.0000 - 4200.0000 MHz		200KF3A	ANALOG
	3700.0000 - 4200.0000 MHz		180KF2D	DIGITAL
	3700.0000 - 4200.0000 MHz		2M50F1D	DIGITAL

**Points of Communication:**

1 - ALSAT - (ALSAT)

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<b>SES-RWL-20080903-01154</b>	E E980427	ASSOCIATED PRESS	
Renewal			09/11/2008 - 09/11/2023
Grant of Authority			Date Effective: 09/09/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
 LOCATION: UNIVERSITY OF ARIZONA (DAILY WILDCAT) STUDENT UNION BLD., ROOM 4, PIMA, TUCSON, AZ  
 32 ° 14 ' 0.00 " N LAT. 110 ° 57 ' 0.70 " W LONG.

ANTENNA ID:	1	3 meters	PRODELIN	1302
	3700.0000 - 4200.0000 MHz		200KF3A	ANALOG
	3700.0000 - 4200.0000 MHz		180KF2D	DIGITAL

3700.0000 - 4200.0000 MHz

2M50F1D

DIGITAL

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20080905-01156 E E980295 Ascent Media Systems and Technology Services, LLC  
 Renewal 09/11/2008 - 09/11/2023  
 Grant of Authority Date Effective: 09/05/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
 LOCATION: CARROLL COLLEGE, 100 WEST LYNDAL AVE., LEWIS & CLARK, HELENA, MT  
 46 ° 35 ' 50.00 " N LAT. 112 ° 2 ' 35.00 " W LONG.

ANTENNA ID:	1	6.1 meters	HARRIS	5346
14000.0000 - 14500.0000 MHz	112KG1D	56.50 dBW	56KBPS BPSK 1/2 FEC, 112 KBPS TRANSMISSION RATE	
14000.0000 - 14500.0000 MHz	36M0F3W	78.50 dBW	FM NTSC VIDEO WITH ASSOCIATED AUDIO	
11700.0000 - 12200.0000 MHz	36M0F3W		FM NTSC VIDEO WITH ASSOCIATED AUDIO	

**Points of Communication:**

1 - ALSAT - (ALSAT)

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SES-RWL-20080905-01157 E E980309 Ascent Media Systems and Technology Services, LLC  
 Renewal 09/04/2008 - 09/04/2023  
 Grant of Authority Date Effective: 09/05/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
 LOCATION: 1772 CALLE JOAQUIN, SAN LUIS OBISPO, SAN LUIS OBISPO, CA  
 35 ° 14 ' 18.00 " N LAT. 120 ° 41 ' 4.00 " W LONG.

ANTENNA ID:	1	6.1 meters	HARRIS	5346
14000.0000 - 14500.0000 MHz	112KG1D	56.50 dBW		
14000.0000 - 14500.0000 MHz	36M0F3W	78.50 dBW		
11700.0000 - 12200.0000 MHz	36M0F3W			

**Points of Communication:**

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1 - ALSAT - (ALSAT)

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**SES-RWL-20080905-01158** E E880707 Bright House Networks, LLC  
Renewal 11/10/2008 - 11/10/2023  
Grant of Authority Date Effective: 09/08/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
LOCATION: 240 Highway 97 South, ESCAMBIA, CANTONMENT, FL  
30 ° 36 ' 15.00 " N LAT. 87 ° 21 ' 22.00 " W LONG.

ANTENNA ID: 1 4.5 meters SCIENTIFIC ATLANTA  
3700.0000 - 4200.0000 MHz 36M0F3F

**Points of Communication:**

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1 - ALSAT - (ALSAT)

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**SES-RWL-20080908-01169** E E870541 Virginia Polytechnic Institute & State University  
Renewal 11/18/2008 - 11/18/2023  
Grant of Authority Date Effective: 09/08/2008

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
LOCATION: 1700 PRATT DRIVE-CRC, MONTGOMERY, BLACKSBURG, VA  
37 ° 12 ' 9.00 " N LAT. 80 ° 24 ' 58.00 " W LONG.

ANTENNA ID: 1 9 meters VERTEX S COMMUNICATION MODEL 9KPC  
5925.0000 - 6425.0000 MHz 36M0F8W 80.50 dBW Standard Video-Associated Audio Subcarriers  
3700.0000 - 4200.0000 MHz 36M0F8W Standard Video-Associated Audio Subcarriers

**Points of Communication:**

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1 - ALSAT - (ALSAT)

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**SES-STA-20080829-01116** E E010332 MTN License Corp.  
Special Temporary Authority  
Grant of Authority Date Effective: 09/05/2008

**Class of Station:**

Special temporary authority is GRANTED with conditions for a period of 30 days beginning September 5, 2008 and ending October 5, 2008.

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**Points of Communication:**

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**SES-STA-20080829-01132** E KL92 PanAmSat Licensee Corp.  
Special Temporary Authority  
Grant of Authority Date Effective: 09/09/2008

**Class of Station:**

Extension of special temporary authority is GRANTED with conditions for an additional 14 days commencing September 4, 2008 through September 17, 2008.

**Points of Communication:**

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**SES-STA-20080904-01139** E E920702 Lockheed Martin Corporation  
Special Temporary Authority  
Grant of Authority Date Effective: 09/09/2008

**Class of Station:**

Extension of special temporary authority is GRANTED with conditions for an additional 60 days commencing September 8, 2008 and ending November 6, 2008.

**Points of Communication:**

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**SES-STA-20080908-01170** E E080059 Inmarsat Hawaii Inc.  
Special Temporary Authority  
Grant of Authority Date Effective: 09/09/2008

**Class of Station:**

Extension of special temporary authority is GRANTED for an additional 30 days commencing September 16, 2008 and ending October 15, 2008.

**Points of Communication:**

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**SES-T/C-20080822-01087** E E050341 KLAS, LLC  
Application for Consent to Transfer of Control  
Grant of Authority Date Effective: 09/04/2008

**Current Licensee:** KLAS, LLC

**FROM:** LANDMARK COMMUNICATIONS, INC.

**TO:** LANDMARK MEDIA ENTERPRISES, LLC

No. of Station(s) listed: 4

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**SES-T/C-20080822-01090** E E4931 NEWSCHANNEL 5 NETWORK, LLC  
Application for Consent to Transfer of Control  
Grant of Authority Date Effective: 09/04/2008

**Current Licensee:** NEWSCHANNEL 5 NETWORK, LLC

**FROM:** LANDMARK COMMUNICATIONS, INC.

**TO:** LANDMARK MEDIA ENTERPRISES, LLC

No. of Station(s) listed: 2

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SES-T/C-20080825-01094 E E040278 NEWSCHANNEL 5 NETWORK, LLC

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 09/04/2008

**Current Licensee:** NEWSCHANNEL 5 NETWORK, LLC

**FROM:** LANDMARK COMMUNICATIONS, INC.

**TO:** LANDMARK MEDIA ENTERPRISES, LLC

No. of Station(s) listed: 3

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**Dismissal**

SES-STA-20080909-01171 E080191 Iowa Public Broadcasting Board

Special Temporary Authority request is dismissed as Moot, due to applicant's Ku-Band Temporary Fixed application SES-LIC-20080826-01104 being placed on Public Notice. See DA 06-1222, released June 7, 2006.

**INFORMATIVE**

SES-STA-20080702-00886 E050348 MVS Fed, LLC

The FCC has taken the administrative action of listing this request as granted. The request sought continuation of operations authorized in File No. SES-STA-20071221-01751. The stations operated during the requested period pursuant to Section 1.62 of the Commission's rules, subject to the conditions specified in the original authorization. This action is without prejudice to action on any pending request for current operations.

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