



18800.0000 - 19300.0000 MHz	5M12G7D	Various Modulations up to 32APSK; Digital Data Link
18800.0000 - 19300.0000 MHz	216MG7D	Various Modulations up to 32APSK; Digital Data Link

**Points of Communication:**

O3b ESV-1 - O3B-A - (Eq, NGSO)

**SES-AMD-20140328-00175** E E6937 United Service Source Inc  
 Amendment  
 Grant of Authority Date Effective: 05/13/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
 LOCATION: 72920 PARK VIEW DRIVE, RIVERSIDE, PALM DESERT, CA  
 33 ° 44 ' 2.00 " N LAT. 116 ° 23 ' 32.00 " W LONG.

ANTENNA ID: 1	6.1 meters	HARRIS	5346
14000.0000 - 14500.0000 MHz	36M0G7W	78.60 dBW	DIGITAL COMPRESSED VIDEO
11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - ALSAT - (ALSAT)

**SES-AMD-20140328-00176** E E7080 United Service Source Inc  
 Amendment  
 Grant of Authority Date Effective: 05/13/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
 LOCATION: 62 SOUTH FRANKLIN STREET, LUZERNE, WILKES BARRE, PA  
 41 ° 14 ' 43.90 " N LAT. 75 ° 53 ' 4.30 " W LONG.

ANTENNA ID: 1	6.1 meters	HARRIS	5346
14000.0000 - 14500.0000 MHz	36M0G7W	78.60 dBW	DIGITAL COMPRESSED VIDEO
11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-AMD-20140401-00205** E E7642 United Service Source Inc  
Amendment  
Grant of Authority Date Effective: 05/13/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 3217 SOUTH ONEIDA AVENUE, ONEIDA, RHINELANDER, WI  
45 ° 37 ' 19.00 " N LAT. 89 ° 24 ' 34.00 " W LONG.

ANTENNA ID:	1	6.1 meters	HARRIS	5346
	14000.0000 - 14500.0000 MHz	36M0G7W	78.60 dBW	DIGITAL COMPRESSED VIDEO
	11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-AMD-20140401-00207** E E7364 United Service Source Inc  
Amendment  
Grant of Authority Date Effective: 05/13/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 49 OLD HICKORY LANE, CAMBRIA, JOHNSTOWN, PA  
40 ° 17 ' 41.00 " N LAT. 78 ° 56 ' 16.00 " W LONG.

ANTENNA ID:	1	6.1 meters	HARRIS	5346
	14000.0000 - 14500.0000 MHz	36M0G7W	78.60 dBW	DIGITAL COMPRESSED VIDEO
	11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-AMD-20140401-00210** E E7425 United Service Source Inc  
Amendment  
Grant of Authority Date Effective: 05/13/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

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SITE ID: 1  
LOCATION: 5936 SMITH HILL ROAD, ONEIDA, UTICA, NY  
43 ° 8 ' 37.00 " N LAT. 75 ° 10 ' 42.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS 5346  
14000.0000 - 14500.0000 MHz 36M0G7W 78.60 dBW DIGITAL COMPRESSED VIDEO  
11700.0000 - 12200.0000 MHz 36M0G7W DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-AMD-20140401-00211** E E7623 United Service Source Inc  
Amendment  
Grant of Authority Date Effective: 05/13/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 329 MT. HOPE AVENUE, PENOBSCOT, BANGOR, ME  
44 ° 49 ' 1.00 " N LAT. 68 ° 45 ' 14.00 " W LONG.

ANTENNA ID: 1 8 meters HARRIS 5349  
14000.0000 - 14500.0000 MHz 36M0G7W 80.70 dBW DIGITAL COMPRESSED VIDEO  
11700.0000 - 12200.0000 MHz 36M0G7W DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-ASG-20140320-00154** E E050006 Arctek Satellite Productions, LLC  
Application for Consent to Assignment  
Grant of Authority Date Effective: 05/13/2014

**Current Licensee:** VideoLink Fiber Optic Transmission Services Inc.

**FROM:** VIDEOLINK FIBER OPTIC TRANSMISSION SERVICES INC.

**TO:** Arctek Satellite Productions, LLC

No. of Station(s) listed: 1

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**SES-ASG-20140428-00334** E E970270 DG Consents Sub, Inc.  
Application for Consent to Assignment  
Grant of Authority Date Effective: 05/13/2014

**Current Licensee:** GeoEye License Corp.

**FROM:** GEOEYE LICENSE CORP.

**TO:** DG Consents Sub, Inc.

No. of Station(s) listed: 4

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**SES-LIC-20130528-00455** E E130098 O3b Limited

Application for Authority  
Grant of Authority

05/13/2014 - 05/13/2029  
Date Effective: 05/13/2014

**Class of Station:** Other

**Nature of Service:** Fixed Satellite Service, Other

SITE ID: Maritime Vessels  
LOCATION: Coastal Reg. of the US: 7°-50° N.Lat.

ANTENNA ID:	Orb1.2	1.2 meters	Orbit Communications	AL-7103-Ka
	18800.0000 - 19300.0000 MHz		216MG7D	Various Modulations up to 32APSK; Digital Data Link
	28600.0000 - 29100.0000 MHz		216MG7D 64.52 dBW	Various Modulations up to 32APSK; Digital Data Link
	18800.0000 - 19300.0000 MHz		5M12G7D	Various Modulations up to 32APSK; Digital Data Link
	28600.0000 - 29100.0000 MHz		5M12G7D 57.53 dBW	Various Modulations up to 32APSK; Digital Data Link

ANTENNA ID:	Orb2.2	2.2 meters	Orbit Communications	AL-7107-Ka
	18800.0000 - 19300.0000 MHz		216MG7D	Various Modulations up to 32APSK; Digital Data Link
	28600.0000 - 29100.0000 MHz		216MG7D 70.52 dBW	Various Modulations up to 32APSK; Digital Data Link
	18800.0000 - 19300.0000 MHz		5M12G7D	Various Modulations up to 32APSK; Digital Data Link
	28600.0000 - 29100.0000 MHz		5M12G7D 61.49 dBW	Various Modulations up to 32APSK; Digital Data Link

**Points of Communication:**

Maritime Vessels - O3B-A - (Eq. NGSO)

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**SES-LIC-20140325-00155** E E140037 Production & Satellite Services, Inc.

Application for Authority  
Grant of Authority

05/07/2014 - 05/07/2029  
Date Effective: 05/07/2014

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

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 4415 Wagon Trail Ave ( K45 2.4m KU), Clark, Las Vegas, NV

ANTENNA ID:	1	2.4 meters	ANDREW CORPORATION	ESA-24SNG
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14000.0000 - 14500.0000 MHz	36M0F3F	72.77 dBW	Aanalog Video w/ Associated Audio
14000.0000 - 14500.0000 MHz	36M0G7F	72.77 dBW	Digital Video w/ Associated Audio
14000.0000 - 14500.0000 MHz	4M00G7F	61.22 dBW	Digital Video w/ Associated Audio
11700.0000 - 12200.0000 MHz	36M0F3F		Aanalog Video w/ Associated Audio
11700.0000 - 12200.0000 MHz	36M0G7F		Digital Video w/ Associated Audio
11700.0000 - 12200.0000 MHz	4M00G7F		Digital Video w/ Associated Audio

**Points of Communication:**

1 - ALSAT - (ALSAT)

**SES-LIC-20140326-00156** E E140038 Laredo Community College **EZ**  
 Application for Authority 05/06/2014 - 05/06/2029  
 Grant of Authority Date Effective: 05/06/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
 LOCATION: West End Washington Street, Webb, Lardeo, TX  
 27 ° 30 ' 29.10 " N LAT. 99 ° 31 ' 17.50 " W LONG.

ANTENNA ID: One	2.4 meters	PRODELIN	1244
14000.0000 - 14500.0000 MHz	9M00G7F	64.28 dBW	QPSK, 3/4 FEC, DVB-S carrier
11700.0000 - 12200.0000 MHz	9M00G7F		QPSK, 3/4 FEC, DVB-S carrier

**Points of Communication:**

1 - PERMITTED LIST - ()

**SES-LIC-20140401-00201** E E140039 Liberty Uplink, Inc.  
 Application for Authority 05/07/2014 - 05/07/2029  
 Grant of Authority Date Effective: 05/07/2014

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

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
 LOCATION: 4 KU SNG, VARIOUS

ANTENNA ID: 1	1.8 meters	VERTEX	1.8SMK LT-4P
14000.0000 - 14500.0000 MHz	24M0G7F	62.24 dBW	PSK Digital Video w/ digital audio/data

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11700.0000 - 12200.0000 MHz

24M0G7F

PSK Digital Video w/ digital audio/data

**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-MOD-20131108-00955**

E KA313

Astrium Services Government, Inc.

Application for Modification

02/20/2010 - 02/20/2025

Grant of Authority

Date Effective: 05/07/2014

**Class of Station:** Earth Stations on-board Vessels/VSAT

**Nature of Service:** Fixed Satellite Service

SITE ID: ESV/4996T

LOCATION: Operate up to 550 remotes (1.2M), CONUS

ANTENNA ID: 4996T

1.2 meters

SEATEL

4996T

14000.0000 - 14500.0000 MHz

1M43G1W

51.10 dBW

SCPC USING QPSK AND BPSK  
MODULATION

14000.0000 - 14500.0000 MHz

44K8G1W

36.10 dBW

SCPC USING QPSK AND BPSK  
MODULATION

14000.0000 - 14500.0000 MHz

717KG1W

48.10 dBW

SCPC USING QPSK AND BPSK  
MODULATION

14000.0000 - 14500.0000 MHz

89K6G1W

39.10 dBW

SCPC USING QPSK AND BPSK  
MODULATION

11450.0000 - 12200.0000 MHz

1M43G1W

SCPC USING QPSK AND BPSK  
MODULATION

11450.0000 - 12200.0000 MHz

44K8G1W

SCPC USING QPSK AND BPSK  
MODULATION

11450.0000 - 12200.0000 MHz

717KG1W

SCPC USING QPSK AND BPSK  
MODULATION

11450.0000 - 12200.0000 MHz

89K6G1W

SCPC USING QPSK AND BPSK  
MODULATION

10950.0000 - 11200.0000 MHz

1M43G1W

SCPC USING QPSK AND BPSK  
MODULATION

10950.0000 - 11200.0000 MHz

44K8G1W

SCPC USING QPSK AND BPSK  
MODULATION

10950.0000 - 11200.0000 MHz

717KG1W

SCPC USING QPSK AND BPSK  
MODULATION

10950.0000 - 11200.0000 MHz

89K6G1W

SCPC USING QPSK AND BPSK  
MODULATION

SITE ID: Hub (8.1M)  
 LOCATION: 2120 River Road, New Haven, Southbury, CT  
 41 ° 27 ' 6.30 " N LAT.

73 ° 17 ' 16.40 " W LONG.

ANTENNA ID:	Vertex 8.1	8.1 meters	VERTEX	KPK	
	14000.0000 - 14500.0000 MHz		36M0F8W	80.14 dBW	ANALOG VIDEO
	14000.0000 - 14500.0000 MHz		100KG7W	60.07 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		20M0G7W	83.08 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		2M29G7W	73.67 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		32K0G7W	55.13 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		36M0G7W	77.23 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		42M0G7W	86.31 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		43K8G7W	56.49 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		45K0G7W	56.61 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		76K8G7W	58.93 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		9K00G7W	49.62 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		72M0G7W	88.55 dBW	QPSK, DIGITAL DATA
	14000.0000 - 14500.0000 MHz		36M0G7W	72.00 dBW	QPSK, DIGITAL TELEPHONY
	14000.0000 - 14500.0000 MHz		1M60G1F	72.12 dBW	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
	14000.0000 - 14500.0000 MHz		200KG1F	63.08 dBW	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
	14000.0000 - 14500.0000 MHz		400KG1F	66.10 dBW	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
	14000.0000 - 14500.0000 MHz		800KG1F	69.11 dBW	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
	11700.0000 - 12200.0000 MHz		36M0F8W		ANALOG VIDEO
	11700.0000 - 12200.0000 MHz		100KG7W		QPSK, DIGITAL DATA
	11700.0000 - 12200.0000 MHz		20M0G7W		QPSK, DIGITAL DATA
	11700.0000 - 12200.0000 MHz		2M29G7W		QPSK, DIGITAL DATA



11700.0000 - 12200.0000 MHz	32K0G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	36M0G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	42M0G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	43K8G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	45K0G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	72M0G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	76K8G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	9K00G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	36M0G7W	QPSK, DIGITAL TELEPHONY
11700.0000 - 12200.0000 MHz	1M60G1F	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
11700.0000 - 12200.0000 MHz	200KG1F	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
11700.0000 - 12200.0000 MHz	400KG1F	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
11700.0000 - 12200.0000 MHz	800KG1F	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO

SITE ID: Remote 1.2m AVL  
LOCATION: 1000 (1.2M ANTENNAS), CONUS

ANTENNA ID:	AVL 1.2M.	1.2 meters	AVL	1.2M Ku-band
14000.0000 - 14500.0000 MHz	1M55G7W	55.10 dBW	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	388KG7W	49.10 dBW	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	3M10G7W	58.10 dBW	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	64K0G7W	41.30 dBW	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	776KG7W	52.10 dBW	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION	

11700.0000 - 12200.0000 MHz	45M0G7W	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
11700.0000 - 12200.0000 MHz	64K0G7W	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
11450.0000 - 11700.0000 MHz	45M0G7W	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
11450.0000 - 11700.0000 MHz	64K0G7W	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	45M0G7W	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	64K0G7W	DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION

SITE ID:        ESV/V110  
LOCATION:        500 (1.05M ANTENNAS) CONUS

ANTENNA ID:	V1110	1.05 meters	INTELLIAN	V110
	14000.0000 - 14500.0000 MHz	194KG7W	42.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	1M16G7W	49.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	1M36G7W	49.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	1M55G7W	49.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	291KG7W	44.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	388KG7W	45.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	44K8G1W	36.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	485KG7W	46.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	582KG7W	47.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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14000.0000 - 14500.0000 MHz	64K0G7W	37.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	679KG7W	47.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	717KG1W	48.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	776KG7W	48.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	89K6G1W	39.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	970KG7W	49.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	97K0G7W	39.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	151KG7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	2M60G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	717KG1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	89K6G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	151KG7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	2M60G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	717KG1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	89K6G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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SITE ID: REMOTE 1  
LOCATION: 1,000 (1.2M ANTENNAS) CONUS

ANTENNA ID: 1.2M. 1.2 meters ANDREW 123/124

SITE ID: REMOTE 3 (2.4M)  
LOCATION: 500 (2.4M ANTENNAS) CONUS

ANTENNA ID: 2.4M. 2.4 meters ANDREW 243

14000.0000 - 14500.0000 MHz 169KG7W 61.20 dBW DIGITAL AUDIO, VIDEO, AND DATA

14000.0000 - 14500.0000 MHz 1M62G7W 61.20 dBW DIGITAL AUDIO, VIDEO, AND DATA

11700.0000 - 12200.0000 MHz 3M00G7W DIGITAL AUDIO, VIDEO, AND DATA

11700.0000 - 12200.0000 MHz 54M0G7W DIGITAL AUDIO, VIDEO, AND DATA

SITE ID: REMOTE .75 M  
LOCATION: 100 (.75 M antennas) CONUS

ANTENNA ID: .75M. 0.75 meters VISIOSAT VISIOSAT 75

14000.0000 - 14500.0000 MHz 1M52G7W 49.50 dBW DIGITAL AUDIO, VIDEO, AND DATA

14000.0000 - 14500.0000 MHz 342KG7W 43.00 dBW DIGITAL AUDIO, VIDEO, AND DATA

11700.0000 - 12200.0000 MHz 3M00G7W DIGITAL AUDIO, VIDEO, AND DATA

11700.0000 - 12200.0000 MHz 54M0G7W DIGITAL AUDIO, VIDEO, AND DATA

SITE ID: REMOTE .90 M  
LOCATION: 250 (.90 M antennas) CONUS

ANTENNA ID: .90M. 0.9 meters VISIOSAT VISIOSAT 90

14000.0000 - 14500.0000 MHz 1M52G7W 50.60 dBW DIGITAL AUDIO, VIDEO, AND DATA

14000.0000 - 14500.0000 MHz 342KG7W 44.10 dBW DIGITAL AUDIO, VIDEO, AND DATA

11700.0000 - 12200.0000 MHz 3M00G7W DIGITAL AUDIO, VIDEO, AND DATA

11700.0000 - 12200.0000 MHz 54M0G7W DIGITAL AUDIO, VIDEO, AND DATA

SITE ID: REMOTE .96 M  
LOCATION: 500 (.96 M antennas) CONUS

ANTENNA ID: .96M. 0.96 meters ANDREW TYPE 960

14000.0000 - 14500.0000 MHz 1M52G7W 51.70 dBW DIGITAL AUDIO, VIDEO, AND DATA

14000.0000 - 14500.0000 MHz	342KG7W	45.20 dBW	DIGITAL AUDIO, VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	3M00G7W		DIGITAL AUDIO, VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	54M0G7W		DIGITAL AUDIO, VIDEO, AND DATA

SITE ID: HUB 6.1 M

LOCATION: 2120 River Road, New Haven, Southbury, CT  
41 ° 27 ' 6.30 " N LAT.

73 ° 17 ' 16.40 " W LONG.

ANTENNA ID:	(Hub)6.1M.	6.1 meters	VERTEX	KPK	
14000.0000 - 14500.0000 MHz			36M0F8W	80.14 dBW	ANALOG VIDEO
14000.0000 - 14500.0000 MHz			100KG7W	57.07 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			20M0G7W	80.08 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			2M29G7W	70.67 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			32K0G7W	52.13 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			36M0G7W	76.93 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			43K8G7W	53.49 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			45K0G7W	53.61 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			76K8G7W	55.93 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			9K00G7W	46.62 dBW	QPSK, DIGITAL DATA
14000.0000 - 14500.0000 MHz			36M0G7W	71.70 dBW	QPSK, DIGITAL TELEPHONY
14000.0000 - 14500.0000 MHz			1M60G1F	69.12 dBW	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
14000.0000 - 14500.0000 MHz			200KG1F	60.08 dBW	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
14000.0000 - 14500.0000 MHz			400KG1F	63.10 dBW	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
14000.0000 - 14500.0000 MHz			800KG1F	66.11 dBW	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
11700.0000 - 12200.0000 MHz			36M0F8W		ANALOG VIDEO
11700.0000 - 12200.0000 MHz			100KG7W		QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz			20M0G7W		QPSK, DIGITAL DATA

11700.0000 - 12200.0000 MHz	2M29G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	32K0G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	36M0G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	43K8G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	45K0G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	76K8G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	9K00G7W	QPSK, DIGITAL DATA
11700.0000 - 12200.0000 MHz	36M0G7W	QPSK, DIGITAL TELEPHONY
11700.0000 - 12200.0000 MHz	1M60G1F	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
11700.0000 - 12200.0000 MHz	200KG1F	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
11700.0000 - 12200.0000 MHz	400KG1F	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO
11700.0000 - 12200.0000 MHz	800KG1F	PSK DIGITAL VIDEO WITH ASSOCIATED DIGITAL AUDIO

SITE ID:        ESV/4003A  
LOCATION:        Operate up to 550 remotes (1.0M), CONUS

ANTENNA ID:	4003A	1 meters	SEATEL	4003A
14000.0000 - 14500.0000 MHz	44K8G1W	34.40 dBW		SPCP USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	538KG1W	45.20 dBW		SPCP USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	89K6G1W	37.40 dBW		SPCP USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	227KG7W	41.50 dBW		TDM/TDMA USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	340KG7W	43.20 dBW		TDM/TDMA USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	378KG7W	43.60 dBW		TDM/TDMA USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	454KG7W	44.50 dBW		TDM/TDMA USING QPSK AND BPSK MODULATION

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14000.0000 - 14500.0000 MHz	908KG7W	45.80 dBW	TDM/TDMA USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M40G7W	45.80 dBW	DVB/MFTDMA USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	316KG7W	42.80 dBW	DVB/MFTDMA USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	607KG7W	45.70 dBW	DVB/MFTDMA USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	378KG7W	43.60 dBW	TDM/TDMA USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	151KG7W		TDM/TDMA USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		SPCP USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	717KG1W		SPCP USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	89K6G1W		SPCP USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		TDM/TDMA USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	2M60G7W		DVB/MFTDMA USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		DVB/MFTDMA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W		SPCP USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	717KG1W		SPCP USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	89K6G1W		SPCP USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W		TDM/TDMA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	151KG7W		TDM/TDMA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	2M60G7W		DVB/MFTDMA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W		DVB/MFTDMA USING QPSK AND BPSK MODULATION

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SITE ID: (Ku) ESVREMOTE .75M  
LOCATION: Operate up to 500 remotes (.75M) US Internation water

ANTENNA ID:	STLUSAT30	0.75 meters	SEA TEL	USAT-30
	14000.0000 - 14500.0000 MHz	768KG7W	40.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	768KG1W	40.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	512KG7W	38.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	512KG1W	38.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	4M10G7W	47.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	4M10G1W	47.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	3M58G7W	46.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	3M58G1W	46.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	3M07G7W	46.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	3M07G1W	46.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	2M56G7W	45.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	2M56G1W	45.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	2M05G7W	44.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	2M05G1W	44.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	256KG7W	35.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	256KG1W	35.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	1M79G7W	43.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



14000.0000 - 14500.0000 MHz	1M79G1W	43.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M54G7W	43.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M54G1W	43.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M28G7W	42.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M28G1W	42.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M02G7W	41.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M02G1W	41.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	128KG7W	32.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	128KG1W	32.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	45M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	45M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	1M00G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	1M00G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	45M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	45M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	1M00G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	1M00G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID: (Ku) ESV TTSAIL900  
LOCATION: Operate up to 500 remotes (1.0M) US Internation water

ANTENNA ID: T&TSAIL900 1 meters THRANE & THRANE TT-7090A

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14000.0000 - 14500.0000 MHz	97K0G7W	39.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	89K6G1W	39.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	81K0G7W	39.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	717KG1W	48.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	452KG7W	46.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	36.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	445KG7W	46.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	388KG7W	45.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	2M35G1W	53.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG7W	44.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M43G1W	51.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG7W	42.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	151KG7W	41.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	89K6G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	81K0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	717KG1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	2M35G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

11450.0000 - 12200.0000 MHz	1M43G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	89K6G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	81K0G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	717KG1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	2M35G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	1M43G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID: (C-ba) ESV9707/97/11  
LOCATION: Operate up to 500 remotes (2.4M) US Internation water

ANTENNA ID: C-ba 2.4M. 2.4 meters SEA TEL 9707/9797/9711

5925.0000 - 6425.0000 MHz	44K8G7W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	44K8G1W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	15M0G7W	60.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	15M0G1W	60.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID: (C-) Hub 14.2M  
LOCATION: 2120 RIVER RD., NEW HAVEN, SOUTHURY, CT  
41 ° 27 ' 6.30 " N LAT. 73 ° 17 ' 16.40 " W LONG.

ANTENNA ID:	(C)14.2M.	14.2 meters	TIW (C-band)	14.2M
	6454.4000 - 6456.6000 MHz		1K20G1D 44.50 dBW	DIGITAL CARRIER
	6454.4000 - 6456.6000 MHz		600HG1D 44.50 dBW	DIGITAL CARRIER
	6454.4000 - 6456.6000 MHz		600HG2D 44.50 dBW	DIGITAL CARRIER
	6454.4000 - 6456.6000 MHz		1K20G2D 44.50 dBW	DIGITAL CARRIER
	6454.4000 - 6456.6000 MHz		2K40G2D 44.50 dBW	DIGITAL CARRIER
	6454.4000 - 6456.6000 MHz		10K5G2F 44.50 dBW	DIGITAL CARRIER
	6454.4000 - 6456.6000 MHz		2M20G1D 78.00 dBW	DIGITAL CARRIER
	6454.4000 - 6456.6000 MHz		2M20G1D 82.30 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		1K20G1D 44.50 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		600HG1D 44.50 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		600HG2D 44.50 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		1K20G2D 44.50 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		2K40G2D 44.50 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		10K5G2F 44.50 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		2M20G1D 78.00 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		2M20G1D 82.30 dBW	DIGITAL CARRIER
	6425.0000 - 6454.0000 MHz		100KG1X 60.80 dBW	DIGITAL DATA
	6425.0000 - 6454.0000 MHz		10K0G1W 59.70 dBW	DIGITAL DATA
	6425.0000 - 6454.0000 MHz		10K0G1X 61.20 dBW	DIGITAL DATA
	6425.0000 - 6454.0000 MHz		17K5G1D 61.40 dBW	DIGITAL DATA
	6425.0000 - 6454.0000 MHz		20K0G1E 56.80 dBW	DIGITAL DATA
	6425.0000 - 6454.0000 MHz		2K50F1D 58.80 dBW	DIGITAL DATA
	6425.0000 - 6454.0000 MHz		2K50G1D 65.70 dBW	DIGITAL DATA
	6425.0000 - 6454.0000 MHz		45K0G7D 66.00 dBW	DIGITAL DATA
	6425.0000 - 6454.0000 MHz		5K00G1D 61.80 dBW	DIGITAL DATA

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6425.0000 - 6454.0000 MHz	5K00G1E	51.90 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	5K00G1W	51.90 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	60K0D1W	65.90 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	7K50G1D	59.10 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	7K50G1E	62.20 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	7K50G1W	58.40 dBW	DIGITAL DATA
6425.0000 - 6443.0000 MHz	NON	70.00 dBW	Communications Systems Monitoring & test Signals
6425.0000 - 6443.0000 MHz	600KFXN	70.00 dBW	Communications Systems Monitoring & test Signals
6417.5000 - 6443.0000 MHz	4K00G1D	70.00 dBW	
6417.5000 - 6443.0000 MHz	4K00G3E	70.00 dBW	
6417.5000 - 6443.0000 MHz	6K00G1D	70.00 dBW	
6417.5000 - 6443.0000 MHz	7K50G3E	70.00 dBW	
6417.5000 - 6443.0000 MHz	12K0G1D	70.00 dBW	
6417.5000 - 6443.0000 MHz	12K0G3E	70.00 dBW	
6416.0000 - 6418.0000 MHz	900KF2D	75.00 dBW	TT&C
6170.0000 - 6180.0000 MHz	900KF2D	90.00 dBW	TT&C
5925.0000 - 6425.0000 MHz	36M0F8F	83.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	18M0F8F-	83.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	36M0G7F	88.80 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	4M00G7F-	84.30 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	72M0G7W	88.80 dBW	DIGITAL VOICE, AND DATA
5925.0000 - 6425.0000 MHz	21K9G7W-	61.70 dBW	DIGITAL VOICE, AND DATA
4192.5000 - 4200.0000 MHz	3K00G1D		
4192.5000 - 4200.0000 MHz	4K00G1D		
4192.5000 - 4200.0000 MHz	4K00G3E		

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4192.5000 - 4200.0000 MHz	7K50G3E	
4192.5000 - 4200.0000 MHz	12K0G1D	
4192.5000 - 4200.0000 MHz	12K0G3E	
4188.0000 - 4189.0000 MHz	1K00G1D	TT&C
3945.0000 - 3955.0000 MHz	1K00G1D	TT&C
3700.0000 - 4200.0000 MHz	36M0F8F	ANALOG VIDEO
3700.0000 - 4200.0000 MHz	18M0F8F-	ANALOG VIDEO
3700.0000 - 4200.0000 MHz	36M0G7F	DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	4M00G7F-	DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	72M0G7W	DIGITAL VOICE AND DATA
3700.0000 - 4200.0000 MHz	21K9G7W-	DIGITAL VOICE AND DATA
3600.0000 - 3629.0000 MHz	2M20G1D	DIGITAL CARRIER
3600.0000 - 3629.0000 MHz	100KG1X	DIGITAL DATA
3600.0000 - 3629.0000 MHz	10K0G1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	17K5G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	20K0G1E	DIGITAL DATA
3600.0000 - 3629.0000 MHz	20K0G1X	DIGITAL DATA
3600.0000 - 3629.0000 MHz	2K50F1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	2K50G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	45K0G7D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1E	DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	60K0D1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	7K50G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	7K50G1E	DIGITAL DATA

3600.0000 - 3629.0000 MHz	7K50G1W	DIGITAL DATA
3600.0000 - 3623.0000 MHz	NON	Communications Systems Monitoring & test Signals
3600.0000 - 3623.0000 MHz	300KFXN	Communications Systems Monitoring & test Signals
3600.0000 - 3623.0000 MHz	3K00G1D	
3600.0000 - 3623.0000 MHz	4K00G1D	
3600.0000 - 3623.0000 MHz	4K00G3E	
3600.0000 - 3623.0000 MHz	7K50G3E	
3600.0000 - 3623.0000 MHz	12K0G1D	
3600.0000 - 3623.0000 MHz	12K0G3E	

SITE ID:        ESV/INTV240  
LOCATION:        Operate up to 500 remotes (2.4M) US Internation water

ANTENNA ID:	INT V240	2.4 meters	INTELLIAN	V240
5925.0000 - 6425.0000 MHz	44K8G7W	49.50 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	44K8G1W	49.50 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	15M0G7W	60.70 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	15M0G1W	60.70 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	54M0G7W			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	54M0G1W			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	44K8G7W			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	44K8G1W			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID:        ESV/9711QOR-C  
LOCATION:        Operate up to 500 remotes (2.4M C-BAND) US Internation water

ANTENNA ID:	9711QOR-C	2.4 meters	SEA TEL	9711QOR-C
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5925.0000 - 6425.0000 MHz	44K8G7W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	44K8G1W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	15M0G7W	60.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5925.0000 - 6425.0000 MHz	15M0G1W	60.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3700.0000 - 4200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID:        ESV/9711QOR-KU  
LOCATION:        Operate up to 500 remotes (1.2M KU-BAND) US Internation water

ANTENNA ID:   9711QORKU      1.2 meters      SEA TEL                                   9711QOR-KU

14000.0000 - 14500.0000 MHz	8M00G7W	56.26 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	8M00G1W	56.26 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G7W	39.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	39.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



10950.0000 - 11200.0000 MHz	54M0G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID:        ESV/INTV100KU  
LOCATION:        Operate up to 500 remotes (1.06M KU-BAND) US Internation water

ANTENNA ID:   INTV100KU       1.06 meters       INTELLIAN       V100

14000.0000 - 14500.0000 MHz	5M00G7W	52.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	5M00G1W	52.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G7W	37.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	37.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID:        ESV/INTV130KU  
LOCATION:        Operate up to 500 remotes (1.25M KU-BAND) US Internation water

ANTENNA ID:   INTV130KU       1.25 meters       INTELLIAN       V130

14000.0000 - 14500.0000 MHz	8M00G7W	54.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	8M00G1W	54.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G7W	39.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	39.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID: ESV/MIT/MVA60KU  
LOCATION: Operate up to 500 remotes (0.6M KU-BAND) US Internation water

ANTENNA ID:	MITMVA60K	0.6 meters	MITSUBISHI	MVA60
14000.0000 - 14500.0000 MHz	44K8G7W	34.93 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	44K8G1W	34.93 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	1M10G7W	46.34 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	1M10G1W	46.34 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	

11450.0000 - 12200.0000 MHz	54M0G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID:        ESV/MIT/MVA120KU  
LOCATION:        Operate up to 500 remotes (1.2M KU-BAND) US Internation water

ANTENNA ID:	MITMVA12K	1.2 meters			MVA120
14000.0000 - 14500.0000 MHz	8M00G7W	55.72 dBW			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	8M00G1W	55.72 dBW			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G7W	44.22 dBW			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	44.22 dBW			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W				DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G1W				DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G7W				DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W				DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W				DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G1W				DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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10950.0000 - 11200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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10950.0000 - 11200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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SITE ID: REMOTE 2  
LOCATION: 1,000 (1.8M ANTENNAS) CONUS

ANTENNA ID:	1.8M.	1.8 meters	ANDREW	183
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14000.0000 - 14500.0000 MHz	169KG7W	58.50 dBW	DIGITAL AUDIO, VIDEO, AND DATA
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14000.0000 - 14500.0000 MHz	1M62G7W	58.50 dBW	DIGITAL AUDIO, VIDEO, AND DATA
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11700.0000 - 12200.0000 MHz	3M00G7W		DIGITAL AUDIO, VIDEO, AND DATA
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11700.0000 - 12200.0000 MHz	54M0G7W		DIGITAL AUDIO, VIDEO, AND DATA
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SITE ID: (L) Hub 14.2M  
LOCATION: 2120 RIVER RD., NEW HAVEN, SOUTHURRY, CT  
41 ° 27 ' 6.30 " N LAT. 73 ° 17 ' 16.40 " W LONG.

ANTENNA ID:	(L)14.2M.	14.2 meters	TIW (L-band)	DUAL
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1626.5000 - 1660.5000 MHz	24K0F3E	36.00 dBW	ANALOG CARRIER
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1626.5000 - 1660.5000 MHz	NON	31.00 dBW	PILOT
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1626.5000 - 1660.5000 MHz	2K40G2D	36.00 dBW	DIGITAL CARRIER
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1626.5000 - 1660.5000 MHz	1K20G1D	36.00 dBW	DIGITAL CARRIER
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1626.5000 - 1660.5000 MHz	600HG1D	36.00 dBW	DIGITAL CARRIER
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1626.5000 - 1660.5000 MHz	600HG2D	36.00 dBW	DIGITAL CARRIER
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1626.5000 - 1660.5000 MHz	1K20G2D	36.00 dBW	DIGITAL CARRIER
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1626.5000 - 1660.5000 MHz	10K5G2F	36.00 dBW	DIGITAL CARRIER
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1626.5000 - 1649.5000 MHz	300KFXN	70.00 dBW	Communications Systems Monitoring & test Signals
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1574.4000 - 1576.6000 MHz	2K40G2D		DIGITAL CARRIER
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1574.4000 - 1576.6000 MHz	1K20G1D		DIGITAL CARRIER
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1574.4000 - 1576.6000 MHz	600HG1D		DIGITAL CARRIER
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1574.4000 - 1576.6000 MHz	600HG2D		DIGITAL CARRIER
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1574.4000 - 1576.6000 MHz	1K20G2D	DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	10K5G2F	DIGITAL CARRIER
1530.0000 - 1548.0000 MHz	600KFXN	Communications Systems Monitoring & test Signals
1530.0000 - 1548.0000 MHz	NON	Communications Systems Monitoring & test Signals
1525.0000 - 1559.0000 MHz	2K40G2D	DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	1K20G1D	DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	600HG1D	DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	600HG2D	DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	1K20G2D	DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	10K5G2F	DIGITAL CARRIER

SITE ID: (Ku) Hub 14.2M  
LOCATION: 2120 River Road, New Haven, Southbury, CT  
41 ° 27 ' 6.30 " N LAT. 73 ° 17 ' 16.40 " W LONG.

ANTENNA ID: (Ku)14.2M. 14.2 meters TIW 14.2M

SITE ID: Hub 1.2M(Ku)  
LOCATION: 2120 River Road, New Haven, Southbury, CT  
41 ° 27 ' 6.30 " N LAT. 73 ° 17 ' 16.40 " W LONG.

ANTENNA ID: (Hub)1.2M. 1.2 meters PRODELIN 1123

14000.0000 - 14500.0000 MHz	36M0G7W	63.30 dBW	DIGITAL AUDIO, VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	64K0G7W	41.30 dBW	DIGITAL AUDIO, VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	169KG7W	55.30 dBW	DIGITAL AUDIO, VIDEO, AND DATA
14000.0000 - 14500.0000 MHz	1M62G7W	55.30 dBW	DIGITAL AUDIO, VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL AUDIO, VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	64K0G7W		DIGITAL AUDIO, VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	54M0G7W		DIGITAL AUDIO, VIDEO, AND DATA
11700.0000 - 12200.0000 MHz	3M00G7W		DIGITAL AUDIO, VIDEO, AND DATA

SITE ID: ESV/4006  
LOCATION: Operate up to 550 remotes (1.0M), CONUS

ANTENNA ID:	4006	1 meters	SEATEL	4006
	14000.0000 - 14500.0000 MHz	44K8G1W	34.40 dBW	SCPC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	717KG1W	46.40 dBW	SCPC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	89K6G1W	37.40 dBW	SCPC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	227KG7W	41.50 dBW	TDM/TDMA USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	340KG7W	43.20 dBW	TDM/TDMA USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	378KG7W	43.60 dBW	TDM/TDMA USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	454KG7W	44.50 dBW	TDM/TDMA USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	908KG7W	47.40 dBW	TDM/TDMA USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	1M40G7W	47.40 dBW	DVB/MFTDMA USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	316KG7W	42.80 dBW	DVB/MFTDMA USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	607KG7W	45.70 dBW	DVB/MFTDMA USING QPSK AND BPSK MODULATION
	11450.0000 - 12200.0000 MHz	151KG7W		TDM/TDMA USING QPSK AND BPSK MODULATION
	11450.0000 - 12200.0000 MHz	54M0G7W		TDM/TDMA USING QPSK AND BPSK MODULATION
	11450.0000 - 12200.0000 MHz	2M60G7W		DVB/MFTDMA USING QPSK AND BPSK MODULATION
	11450.0000 - 12200.0000 MHz	54M0G7W		DVB/MFTDMA USING QPSK AND BPSK MODULATION
	11450.0000 - 11200.0000 MHz	44K8G1W		SCPC USING QPSK AND BPSK MODULATION
	11450.0000 - 11200.0000 MHz	717KG1W		SCPC USING QPSK AND BPSK MODULATION
	11450.0000 - 11200.0000 MHz	89K6G1W		SCPC USING QPSK AND BPSK MODULATION

10950.0000 - 11200.0000 MHz	44K8G1W	SCPC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	717KG1W	SCPC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	89K6G1W	SCPC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	151KG7W	TDM/TDMA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	2M60G7W	DVB/MFTDMA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W	DVB/MFTDMA USING QPSK AND BPSK MODULATION

SITE ID: (Ku) ESV REMOTE900B  
LOCATION: 500 (1.0M. SAILOR 900B), US Internation water

ANTENNA ID:	SAILOR900B	1 meters	THRANE & THRANE	TT-7090B SAILOR 900B
14000.0000 - 14500.0000 MHz	5M00G7W	49.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	5M00G1W	49.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	44K8G7W	35.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	44K8G1W	35.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
11450.0000 - 12200.0000 MHz	54M0G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION		
11450.0000 - 12200.0000 MHz	54M0G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION		
11450.0000 - 12200.0000 MHz	44K8G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION		
11450.0000 - 12200.0000 MHz	44K8G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION		
10950.0000 - 11200.0000 MHz	54M0G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION		
10950.0000 - 11200.0000 MHz	54M0G1W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION		
10950.0000 - 11200.0000 MHz	44K8G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION		

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10950.0000 - 11200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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SITE ID: REMOTE 1.2MSINAERO  
LOCATION: 500 (1.2M. FLYAWAY) US Internation water, CONUS, AK HI

ANTENNA ID:	SA-1.2MFLY	1.2 meters	SINAERO	SA-1.2TFLY
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14000.0000 - 14500.0000 MHz	64K0G7W	40.14 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	64K0G1W	40.14 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	10M0G7W	58.84 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	10M0G1W	58.84 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11700.0000 - 12200.0000 MHz	36M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11700.0000 - 12200.0000 MHz	1M00G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11700.0000 - 12200.0000 MHz	1M00G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID: (Ku) ESV REMOTE800A  
LOCATION: 500 (0.83M. SAILOR 800A), US Internation water

SITE ID: (Ku) ESV REMOTE6006  
LOCATION: 500 (1.5M. SEA TEL 6006/09/12), US Internation water

ANTENNA ID:	6006/09/12	1.5 meters	SEA TEL	6006/6009/6012
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14000.0000 - 14500.0000 MHz	44K8G7W	41.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	41.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	10M0G7W	64.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	10M0G1W	64.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



11450.0000 - 12200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
ANTENNA ID: SAILOR800A	0.83 meters	THRANE & THRANE	TT-7080A SAILOR 800A
14000.0000 - 14500.0000 MHz	5M00G7W	47.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	5M00G1W	47.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G7W	31.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	31.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

**Points of Communication:**

- (C-) Hub 14.2M - ALSAT - (ALSAT)
- (C-) Hub 14.2M - INMARSAT 3F4 - (54 W.L.)
- (C-) Hub 14.2M - INMARSAT 4F3 - (97.65 W.L.)
- (C-) Hub 14.2M - INMARSAT Ltd-3 - (15.5 W.L.)
- (C-) Hub 14.2M - INMARSAT-2 AOR-EAST - (17 W.L.)
- (C-) Hub 14.2M - INMARSAT-2 AOR-WEST - (98 W.L.)
- (C-) Hub 14.2M - MARISAT-F2 - (33.9 W.L.)
- (C-ba) ESV9707/97/11 - NSS 9 - (177 W.L.)
- (C-ba) ESV9707/97/11 - SES-4 (S2828) - (22.0 W.L.)
- (Ku) ESV REMOTE6006 - ALSAT - (ALSAT)
- (Ku) ESV REMOTE800A - ALSAT - (ALSAT)
- (Ku) ESV REMOTE900B - ALSAT - (ALSAT)
- (Ku) ESV TTSAIL900 - ALSAT - (ALSAT)
- (Ku) ESVREMOTE .75M - ALSAT - (ALSAT)
- (Ku) Hub 14.2M - ALSAT - (ALSAT)
- (Ku) Hub 14.2M - INMARSAT 3F4 - (54 W.L.)
- (Ku) Hub 14.2M - INMARSAT Ltd-3 - (15.5 W.L.)
- (Ku) Hub 14.2M - INMARSAT-2 AOR-EAST - (17 W.L.)
- (Ku) Hub 14.2M - INMARSAT-2 AOR-WEST - (98 W.L.)
- (Ku) Hub 14.2M - MARISAT-F2 - (33.9 W.L.)
- (L) Hub 14.2M - INMARSAT 3F4 - (54 W.L.)
- (L) Hub 14.2M - INMARSAT Ltd-3 - (15.5 W.L.)
- (L) Hub 14.2M - INMARSAT-2 AOR-EAST - (17 W.L.)
- (L) Hub 14.2M - INMARSAT-2 AOR-WEST - (98 W.L.)
- (L) Hub 14.2M - ISAT List -
- (L) Hub 14.2M - MARISAT-F2 - (33.9 W.L.)

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ESV/4003A - ALSAT - (ALSAT)  
ESV/4003A - GALAXY 10R - (123 W.L.)  
ESV/4003A - INTELSAT 705 - (50 W.L.)  
ESV/4006 - ALSAT - (ALSAT)  
ESV/4006 - GALAXY 10R - (123 W.L.)  
ESV/4006 - INTELSAT 705 - (50 W.L.)  
ESV/4996T - ALSAT - (ALSAT)  
ESV/4996T - GALAXY 10R - (123 W.L.)  
ESV/4996T - INTELSAT 705 - (50 W.L.)  
ESV/9711QOR-C - NSS 9 - (177 W.L.)  
ESV/9711QOR-C - SES-4 (S2828) - (22.0 W.L.)  
ESV/9711QOR-KU - ALSAT - (ALSAT)  
ESV/9711QOR-KU - NSS 9 - (177 W.L.)  
ESV/9711QOR-KU - SES-4 (S2828) - (22.0 W.L.)  
ESV/INTV100KU - ALSAT - (ALSAT)  
ESV/INTV100KU - NSS 9 - (177 W.L.)  
ESV/INTV100KU - SES-4 (S2828) - (22.0 W.L.)  
ESV/INTV130KU - ALSAT - (ALSAT)  
ESV/INTV130KU - NSS 9 - (177 W.L.)  
ESV/INTV130KU - SES-4 (S2828) - (22.0 W.L.)  
ESV/INTV240 - NSS 9 - (177 W.L.)  
ESV/INTV240 - SES-4 (S2828) - (22.0 W.L.)  
ESV/MIT/MVA120KU - ALSAT - (ALSAT)  
ESV/MIT/MVA120KU - NSS 9 - (177 W.L.)  
ESV/MIT/MVA120KU - SES-4 (S2828) - (22.0 W.L.)  
ESV/MIT/MVA60KU - ALSAT - (ALSAT)  
ESV/MIT/MVA60KU - NSS 9 - (177 W.L.)  
ESV/MIT/MVA60KU - SES-4 (S2828) - (22.0 W.L.)  
ESV/V110 - ALSAT - (ALSAT)





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SITE ID: 1  
LOCATION: 3217 SOUTH ONEIDA AVENUE, ONEIDA, RHINELANDER, WI  
45 ° 37 ' 19.00 " N LAT. 89 ° 24 ' 34.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS 5346  
14000.0000 - 14500.0000 MHz 36M0G7W 78.60 dBW DIGITAL COMPRESSED VIDEO  
11700.0000 - 12200.0000 MHz 36M0G7W DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-MOD-20131113-01119** E E7425 United Service Source Inc  
Application for Modification 07/20/2004 - 07/20/2019  
Grant of Authority Date Effective: 05/13/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 5936 SMITH HILL ROAD, ONEIDA, UTICA, NY  
43 ° 8 ' 37.00 " N LAT. 75 ° 10 ' 42.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS 5346  
14000.0000 - 14500.0000 MHz 36M0G7W 78.60 dBW DIGITAL COMPRESSED VIDEO  
11700.0000 - 12200.0000 MHz 36M0G7W DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-MOD-20131113-01120** E E7623 United Service Source Inc  
Application for Modification 09/14/2004 - 09/14/2019  
Grant of Authority Date Effective: 05/13/2014

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 329 MT. HOPE AVENUE, PENOBSCOT, BANGOR, ME  
44 ° 49 ' 1.00 " N LAT. 68 ° 45 ' 14.00 " W LONG.

ANTENNA ID: 1 8 meters HARRIS 5349  
14000.0000 - 14500.0000 MHz 36M0G7W 80.70 dBW DIGITAL COMPRESSED VIDEO  
11700.0000 - 12200.0000 MHz 36M0G7W DIGITAL COMPRESSED VIDEO

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**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-MOD-20140328-00199** E E060086 WTAE Hearst Television Inc.  
Application for Modification 04/25/2006 - 04/25/2021  
Grant of Authority Date Effective: 05/13/2014

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

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: VARIOUS

ANTENNA ID:	1	1.45 meters	SAT-LITE TECHNOLOGIES	1411 PELORIS
	14000.0000 - 14500.0000 MHz	36M0D7W	65.76 dBW	QAM OR APSK; DIGITAL VIDEO, DIGITAL AUDIO AND DATA
	14000.0000 - 14500.0000 MHz	3M50D7W	60.21 dBW	QAM OR APSK; DIGITAL VIDEO, DIGITAL AUDIO AND DATA
	11700.0000 - 12200.0000 MHz	36M0D7W		QAM OR APSK; DIGITAL VIDEO, DIGITAL AUDIO AND DATA
	11700.0000 - 12200.0000 MHz	3M50D7W		QAM OR APSK; DIGITAL VIDEO, DIGITAL AUDIO AND DATA

**Points of Communication:**

1 - ALSAT - (ALSAT)

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**SES-RWL-20140210-00053** E E000725 SkyBitz, Inc.  
Renewal 03/13/2014 - 03/13/2016  
Grant of Authority Date Effective: 05/12/2014

**Class of Station:** Mobile Earth Station

**Nature of Service:** Domestic Mobile-Satellite Service, International Mobile Satellite Service, Mobile Satellite Service

SITE ID: MOBILE  
LOCATION: 450,000 half-duplex METs CONUS, Alaska, HI & surrounding US water, VARIOUS

ANTENNA ID:	MT1	0.042 meters	Eagle Eye, Inc. (ant. size:4.2cm Square)	Ant. Type: Patch
	1626.5000 - 1660.5000 MHz	4K00F1D	4.00 dBW	MSK at 3600 bps; digital; data
	1626.5000 - 1660.5000 MHz	4K70G1D	4.00 dBW	MSK at 3600 bps; digital; data
	1574.4200 - 1576.4200 MHz	1M00G1D		reception of GPS L1 CA signal
	1574.4200 - 1576.4200 MHz	1M00G1D		Reception of GPS L1 CA signal

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1525.0000 - 1559.0000 MHz	4K00F1D	MSK at 3600 bps; digital; data
1525.0000 - 1559.0000 MHz	4K70G1D	MSK at 3600 bps; digital; data

**Points of Communication:**

MOBILE - AMC-1(S2445) - (101.0 W.L.)

MOBILE - INMARSAT 4F3 - (97.65 W.L.)

MOBILE - ISAT List -

MOBILE - MSAT-1 - (106.5 W.L.)

MOBILE - MSAT-2 - (100.95 W.L.)

MOBILE - MSV-1 - (101 W.L.)

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**SES-STA-20140425-00315** E E7541 Lockheed Martin Corporation

Special Temporary Authority

Grant of Authority

Date Effective: 05/06/2014

**Class of Station:**

On May 6, 2014, Lockheed Martin Corporation was granted special temporary authority, with conditions, for a period of 30 days, to use a fixed earth station in Carpentersville, NJ, to provide C-band telemetry, tracking and control ("TT&C") functions during the post launch and early orbit phases ("LEOP") operations for the Express AM4R satellite at the geographical coordinates 40° 38' 39.1 " N.L. and 075° 11' 27.8" W.L while on its way to the 80° E.L. orbital location in the 6535.0 MHz (Earth-to-space) and 4199.5 MHz (space-to-Earth) frequency bands.

**Points of Communication:**

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**SES-STA-20140429-00323** E E120106 Gogo LLC

Special Temporary Authority

Grant of Authority

Date Effective: 05/05/2014

**Class of Station:**

On May 5, 2014, Gogo LLC was granted special temporary authority, with conditions, for a period of 60 days to operate up to 12 aeronautical terminals (0.24 meter AeroSat model HR6400) with Satmex 5 satellite (Call Sign S2589) at the 114.9° W.L. orbital location in the 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands.

**Points of Communication:**

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**SES-STA-20140502-00329** E Pacific Television Center

Special Temporary Authority

Grant of Authority

Date Effective: 05/06/2014

**Class of Station:**

On May 6, 2014, Pacific Television Center was granted special temporary authority, with conditions, for a period of 30 days to operate a temporary fixed earth station with the AMC-1, S2445, satellite at the 103° W. L. orbital location on the center frequencies 14.120 GHz (Earth-to space) and 11.820 GHz (space-to-Earth ) to provide news coverage of severe weather in the U.S.



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**Points of Communication:**

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**SES-T/C-20140309-00133**    E E980203    OuterLink Corporation

Application for Consent to Transfer of Control

Grant of Authority

Date Effective:    05/13/2014

**Current Licensee:**    OuterLink Corporation

**FROM:** OUTERLINK CORPORATION

**TO:**    S & H Communications, LLC

No. of Station(s) listed: 1

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**SES-T/C-20140313-00136**    E E4309    Reuters America LLC

Application for Consent to Transfer of Control

Grant of Authority

Date Effective:    05/13/2014

**Current Licensee:**    Reuters America LLC

**FROM:** THE WOODBRIDGE COMPANY LIMITED

**TO:**    The Woodbridge Company Limited

No. of Station(s) listed: 3

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**Dismissal**

**SES-STA-20140416-00294**            KA313            Astrium Services Government, Inc.

Application dismissed as moot. See IBFS File No. SES-MOD-20131108-00955, granted on May 7, 2014.

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