



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
445 12th STREET S.W.
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Internet: <http://www.fcc.gov> (or <ftp.fcc.gov>)
TTY (202) 418-2555

Report No. SES-01846

Wednesday April 27, 2016

Satellite Communications Services Information re: Actions Taken

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

SES-AMD-20150928-00637 E E040117 CNN America, Inc.
Amendment
Grant of Authority Date Effective: 04/25/2016

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: ONE CNN CENTER (TRUCK DC 1 KU), VARIOUS

ANTENNA ID: TRUCK DC 1 1.8 meters AVL TECHNOLOGIES 1810
14000.0000 - 14500.0000 MHz 36M0G7W 72.11 dBW ONE 36 MBIT MCPC DIGITAL
CARRIER FOR VOICE/DATA WITH
AN EMISSION DESIGNATOR OF
36M0G7W.

Points of Communication:

1 - PERMITTED LIST - ()

SES-ASG-20160419-00361 E E100059 Consolidated Communications Enterprise Services, Inc.
Application for Consent to Assignment
Grant of Authority Date Effective: 04/22/2016

Current Licensee: SUREWEST TELEVIDEO
FROM: SUREWEST TELEVIDEO
TO: Consolidated Communications Enterprise Services, Inc.

No. of Station(s) listed: 1

SES-LIC-20160317-00259 E E160045 Cox Media Group Northeast, LLC
Application for Authority 04/25/2016 - 04/25/2031
Grant of Authority Date Effective: 04/25/2016

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION:

ANTENNA ID: 1 1.4 meters AVL Technologies 1410
14000.0000 - 14500.0000 MHz 36M0G7W 64.50 dBW One 36 Mbit MCPC digital carrier for voice/data

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20150819-00533 E E040117 CNN America, Inc.
Application for Modification 04/07/2004 - 04/07/2019
Grant of Authority Date Effective: 04/25/2016

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: ONE CNN CENTER (TRUCK DC 1 KU), VARIOUS

ANTENNA ID: TRUCK DC 1 1.8 meters AVL TECHNOLOGIES 1810
14000.0000 - 14500.0000 MHz 36M0G7W 72.11 dBW ONE 36 MBIT MCPC DIGITAL CARRIER FOR VOICE/DATA WITH AN EMISSION DESIGNATOR OF 36M0G7W.

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20151009-00694 E E050276 Comsat, Inc.
Application for Modification 06/14/2010 - 06/14/2025
Grant of Authority Date Effective: 04/25/2016

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: Multiple
LOCATION: 2600 TOWER OAKS BOULEVARD SUITE 700, MONTGOMERY, ROCKVILLE, MD

ANTENNA ID: AddValue 0.2 meters AddValue AddValue PUT

	1626.5000 - 1660.5000 MHz	25K0G7W	11.00 dBW	Pi/4 QPSK Signaling
	1626.5000 - 1660.5000 MHz	200KG7W	11.00 dBW	Pi/4 QPSK BGAN
	1525.0000 - 1559.0000 MHz	50K0G7W	0.00 dBW	QPSK Signaling
	1525.0000 - 1559.0000 MHz	200KG7W	0.00 dBW	
	1525.0000 - 1559.0000 MHz	12K5G7W	0.00 dBW	QPSK Signaling
ANTENNA ID:	Nera	0.125 meters	Nera	Nera PUT
	1626.5000 - 1660.5000 MHz	25K0G7W	11.00 dBW	Pi/4 QPSK Signaling
	1626.5000 - 1660.5000 MHz	200KG7W	11.00 dBW	Pi/4 QPSK BGAN
	1525.0000 - 1559.0000 MHz	50K0G7W	0.00 dBW	QPSK Signaling
	1525.0000 - 1559.0000 MHz	200KG7W	0.00 dBW	
	1525.0000 - 1559.0000 MHz	12K5G7W	0.00 dBW	QPSK Signaling
ANTENNA ID:	T&T	0.21 meters	Thrane and Thrane	T&T Lite
	1626.5000 - 1660.5000 MHz	200KD7W	16.10 dBW	16-QAM BGAN
	1626.5000 - 1660.5000 MHz	50K0D7W	16.10 dBW	
	1525.0000 - 1559.0000 MHz	50K0D7W	0.00 dBW	16-QAM Signaling
	1525.0000 - 1559.0000 MHz	200KD7W	0.00 dBW	16-QAM BGAN
	1525.0000 - 1559.0000 MHz	12K5G7W	0.00 dBW	QPSK Signaling
ANTENNA ID:	HNS	0.35 meters	Hughes Network Systems	HNS Briefcase
	1626.5000 - 1660.5000 MHz	50K0D7W	21.00 dBW	16-QAM Signaling
	1626.5000 - 1660.5000 MHz	200KD7W	21.00 dBW	16-QAM BGAN
	1525.0000 - 1559.0000 MHz	50K0D7W	0.00 dBW	16-QAM Signaling
	1525.0000 - 1559.0000 MHz	200KD7W	0.00 dBW	16-QAM BGAN
	1525.0000 - 1559.0000 MHz	12K5G7W	0.00 dBW	QPSK Signaling
ANTENNA ID:	HNS9202	0.2 meters	HUGHES	HNS 9202
	1626.5000 - 1660.5000 MHz	50K0D7W	16.10 dBW	
	1626.5000 - 1660.5000 MHz	200KD7W	16.10 dBW	16-QAM BGAN

1525.0000 - 1559.0000 MHz	200KD7W	16.10 dBW	16-QAM
1525.0000 - 1559.0000 MHz	12K5G7W	16.10 dBW	QPSK SIGNALING
1525.0000 - 1559.0000 MHz	50K0D7W	16.10 dBW	16-QAM SIGNALING

Points of Communication:

Multiple - ISAT List -

SES-MOD-20151009-00695 E KB34 Comsat, Inc.
 Application for Modification 06/15/2010 - 06/15/2025
 Grant of Authority Date Effective: 04/25/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service, Mobile Satellite Service

SITE ID: 1
 LOCATION: 7676 PINE GROVE ROAD, VENTURA, SANTA PAULA, CA
 34 ° 24 ' 5.00 " N LAT. 119 ° 4 ' 29.40 " W LONG.

ANTENNA ID: 12.8M 12.8 meters PHILCO-FORD

5925.0000 - 6425.0000 MHz	36M0F8F	82.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	18M0F8F-	82.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	36M0G7F	87.80 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	4M00G7F-	83.30 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	72M0G7W	87.80 dBW	DIGITAL VOICE, AND DATA
5925.0000 - 6425.0000 MHz	21K9G7W-	60.70 dBW	DIGITAL VOICE, AND DATA
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

ANTENNA ID: 12.8M 12.8 meters PHILCO-FORD 42 FT.

6454.4000 - 6456.6000 MHz

6443.0000 - 6454.0000 MHz				
6440.0000 - 6443.0000 MHz	600HG1D	70.00 dBW	AERO	
6440.0000 - 6443.0000 MHz	1K20G1D	70.00 dBW	AERO	
6440.0000 - 6443.0000 MHz	2K40G1D	70.00 dBW	AERO	
6440.0000 - 6443.0000 MHz	10K5G1E	70.00 dBW	AERO	
6425.0000 - 6443.0000 MHz	NON	70.00 dBW	Communications System Monitoring (CSM)	
6425.0000 - 6443.0000 MHz	600KFXN	70.00 dBW	CSM	
6425.0000 - 6440.0000 MHz	NON	77.00 dBW	PILOT	
6425.0000 - 6440.0000 MHz	30K0F3E	77.00 dBW		
6425.0000 - 6440.0000 MHz	600HG1D	77.00 dBW		
6425.0000 - 6440.0000 MHz	1K20G1D	77.00 dBW		
6420.0000 - 6424.0000 MHz	24K0F3E	67.00 dBW		
6420.0000 - 6424.0000 MHz	2K50G1D	68.00 dBW		
6420.0000 - 6424.0000 MHz	24K0G1D	65.00 dBW		
6420.0000 - 6424.0000 MHz	24K0F3E	77.00 dBW	AFRTS audio program channel services vis satellite at 176.5 degrees East	
6417.0000 - 6443.0000 MHz	4K00G3E	77.00 dBW		
6417.0000 - 6443.0000 MHz	4K00G1D	77.00 dBW		
6417.0000 - 6443.0000 MHz	6K00G1D	77.00 dBW		
6417.0000 - 6443.0000 MHz	7K50G3E	77.00 dBW		
6417.0000 - 6443.0000 MHz	12K0G3E	77.00 dBW		
6417.0000 - 6443.0000 MHz	12K0G1D	77.00 dBW		
6416.0000 - 6418.0000 MHz	600KFXN	75.00 dBW	TT&C / MARECS	
6416.0000 - 6418.0000 MHz	900KF2D	75.00 dBW	TT&C / MARECS	
6174.6000 - 6175.4000 MHz	800KFXD	85.00 dBW		
6170.0000 - 6180.0000 MHz	900KF2D	89.00 dBW	TT&C / INMARSAT II	

5927.0000 - 5927.0000 MHz	800KFXD	85.00 dBW	
5925.0000 - 6425.0000 MHz	34M0FXN	85.00 dBW	
4195.0000 - 4199.0000 MHz	24K0F3E		
4195.0000 - 4199.0000 MHz	2K50G1D		
4195.0000 - 4199.0000 MHz	24K0G1D		
4192.5000 - 4200.0000 MHz	3K00G1D		
4192.5000 - 4200.0000 MHz	4K00G1D		
4192.5000 - 4200.0000 MHz	4K00G3E		
4192.5000 - 4200.0000 MHz	7K50G3E		
4192.5000 - 4200.0000 MHz	12K0G1D		
4192.5000 - 4200.0000 MHz	12K0G3E		
4192.5000 - 4200.0000 MHz	NON		PILOT
4192.5000 - 4200.0000 MHz	600HG1D		
4192.5000 - 4200.0000 MHz	1K20G1D		
4192.5000 - 4200.0000 MHz	4K80G1D		
4188.0000 - 4189.0000 MHz	1K00G1D		TT&C / MARECS
3954.5000 - 3954.5000 MHz	1K00G1D		
3954.5000 - 3954.5000 MHz	14K5F2D		
3945.5000 - 3945.5000 MHz	1K00G1D		
3945.5000 - 3945.5000 MHz	1K00G1D		
3945.5000 - 3945.5000 MHz	14K5F2D		
3945.0000 - 3955.0000 MHz	1K00G1D		TT&C / INMARSAT II
3700.5000 - 3700.5000 MHz	1K00G1D		
3620.0000 - 3623.0000 MHz	600HG1D		AERO
3620.0000 - 3623.0000 MHz	1K20G1D		AERO
3620.0000 - 3623.0000 MHz	2K40G1D		AERO

3620.0000 - 3623.0000 MHz	10K5G1E		AERO
3600.0000 - 3629.0000 MHz			
3600.0000 - 3623.0000 MHz	NON		CSM
3600.0000 - 3623.0000 MHz	300KFXN		CSM
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		
3600.0000 - 3620.0000 MHz	NON		PILOT
3600.0000 - 3620.0000 MHz	600HG1D		
3600.0000 - 3620.0000 MHz	4K80G1D		
3600.0000 - 3620.0000 MHz	30K0F3E		
1646.5000 - 1649.5000 MHz	600HG1D	15.00 dBW	AERO
1646.5000 - 1649.5000 MHz	1K20G1D	18.00 dBW	AERO
1646.5000 - 1649.5000 MHz	2K40G1D	21.00 dBW	AERO
1646.5000 - 1649.5000 MHz	10K5G1E	27.00 dBW	AERO
1638.5000 - 1642.5000 MHz	NON	37.00 dBW	
1626.5000 - 1660.5000 MHz			
1626.5000 - 1649.5000 MHz	300KFXN	62.00 dBW	CSM
1626.5000 - 1649.5000 MHz	NON	62.00 dBW	PILOT
1626.5000 - 1646.5000 MHz	NON	37.00 dBW	PILOT
1626.5000 - 1646.5000 MHz	600HG1D	16.00 dBW	CSM
1626.5000 - 1646.5000 MHz	1K20G1D	16.00 dBW	CSM
1626.5000 - 1646.5000 MHz	4K80G1D	37.00 dBW	CSM

1626.5000 - 1646.5000 MHz	30K0F3E	37.00 dBW	CSM
1574.4000 - 1576.6000 MHz			
1545.0000 - 1548.0000 MHz	600HG1D		AERO
1545.0000 - 1548.0000 MHz	1K20G1D		AERO
1545.0000 - 1548.0000 MHz	2K40G1D		AERO
1545.0000 - 1548.0000 MHz	10K5G1E		AERO
1541.5000 - 1541.5000 MHz	NON		
1530.0000 - 1548.0000 MHz	NON		CSM
1530.0000 - 1548.0000 MHz	600KFXN		CSM
1530.0000 - 1545.0000 MHz	NON		PILOT
1530.0000 - 1545.0000 MHz	600HG1D		CSM
1530.0000 - 1545.0000 MHz	1K20G1D		CSM
1530.0000 - 1545.0000 MHz	30K0F3E		CSM
1525.0000 - 1559.0000 MHz			
ANTENNA ID: 10.4M	10.4 meters	NEC	34 FT.
6420.0000 - 6424.0000 MHz	24K0F3E	67.00 dBW	
6420.0000 - 6424.0000 MHz	2K50G1D	68.00 dBW	
6420.0000 - 6424.0000 MHz	24K0G1D	65.00 dBW	
6174.6000 - 6175.4000 MHz	800KFXD	85.00 dBW	
5927.0000 - 5927.0000 MHz	800KFXD	85.00 dBW	
5925.0000 - 6425.0000 MHz	34M0FXN	85.00 dBW	
5925.0000 - 6425.0000 MHz	36M0F8F	80.00 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	18M0F8F-	80.00 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	36M0G7F	85.30 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	4M00G7F-	80.80 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	72M0G7W	85.30 dBW	DIGITAL VOICE, AND DATA

5925.0000 - 6425.0000 MHz	21K9G7W-	58.20 dBW	DIGITAL VOICE, AND DATA
4195.0000 - 4199.0000 MHz	24K0F3E		
4195.0000 - 4199.0000 MHz	2K50G1D		
4195.0000 - 4199.0000 MHz	24K0G1D		
3954.5000 - 3954.5000 MHz	1K00G1D		
3954.5000 - 3954.5000 MHz	14K5F2D		
3945.5000 - 3945.5000 MHz	1K00G1D		
3945.5000 - 3945.5000 MHz	1K00G1D		
3945.5000 - 3945.5000 MHz	14K5F2D		
3700.5000 - 3700.5000 MHz	1K00G1D		
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
1638.5000 - 1642.5000 MHz	NON	37.00 dBW	
1541.5000 - 1541.5000 MHz	NON		
ANTENNA ID: 12.8M	12.8 meters	PHILCO-FORD	42 FT
ANTENNA ID: SAPA 13	10.4 meters	NEC	34 FT
6425.0000 - 6454.0000 MHz	100KG1X	61.80 dBW	O-QPSK, 64 KBPS DATA
6425.0000 - 6454.0000 MHz	1K65G1D	52.30 dBW	DIFFERENTIAL GPS DATA
6425.0000 - 6454.0000 MHz	20K0G1E	58.60 dBW	O-QPSK, VOICE TELEPHONY
6425.0000 - 6454.0000 MHz	10K0G1X	51.60 dBW	BPSK, 9.6 KBPS FAX AND DATA
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
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
3600.0000 - 3629.0000 MHz	100KG1X		O-QPSK, 64 KBPS DATA
3600.0000 - 3629.0000 MHz	20K0G1E		O-QPSK, VOICE TELEPHONY
3600.0000 - 3629.0000 MHz	20K0G1X		BPSK, 9.6 KBPS FAX AND DATA
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

6425.0000 - 6454.0000 MHz	7K50G1D	59.10 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	60K0D1W	65.90 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	5K00G1W	51.90 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	5K00G1E	51.90 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	5K00G1D	61.80 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	45K0G7D	66.00 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	2K50G1D	65.70 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	2K50F1D	58.80 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	20K0G1E	56.80 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	17K5G1D	61.40 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	10K0G1X	61.20 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	10K0G1W	59.70 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	100KG1X	60.80 dBW	DIGITAL DATA
6424.0000 - 6454.0000 MHz	34K0F3E	62.00 dBW	FM TELEPHONY COMPANDED AND UNCOMPANDED
6424.0000 - 6454.0000 MHz	NON	62.00 dBW	UNMODULATED AFC PILOT (CLOSE LOOP)
6424.0000 - 6454.0000 MHz	27K0F3W	62.00 dBW	FM9 ANALOG BROADCAST CARRIER
6424.0000 - 6454.0000 MHz	400KG1F	62.00 dBW	QPSK, DIGITAL VIDEO/DATA
6424.0000 - 6454.0000 MHz	40K0G1D	63.30 dBW	16 QAM DIGITAL TELEPHONY
6424.0000 - 6454.0000 MHz	5K60G1E	54.80 dBW	QPSK, TELEPHONY
6424.0000 - 6454.0000 MHz	24K0G1E	61.10 dBW	QPSK, TELEPHONY
6424.0000 - 6454.0000 MHz	5K60G1W	54.80 dBW	QPSK, DATA/FAX
6424.0000 - 6454.0000 MHz	2M20G1D	62.00 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	2K40G7D	51.10 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	2K40G1D	51.10 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	24K0G1W	61.10 dBW	QPSK, DATA/FAX

6424.0000 - 6454.0000 MHz	132KG7D	62.00 dBW	BPSK, DATA/TDM
5927.0000 - 5927.0000 MHz	NON	53.30 dBW	TT&C RANGING CARRIER
3947.0000 - 3953.0000 MHz	131KG2D		PCM/PSK/BI-PHASE TRACKING BEACON
3700.0000 - 4200.0000 MHz	36M0F8W		TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
3600.0000 - 3629.0000 MHz	2M20G1D		BPSK SPREAD SPECTRUM DATA-NAVIGATION CLOSE LOOP
3600.0000 - 3629.0000 MHz	34K0F3E		FM TELEPHONY COMPANDED AND UNCOMPANDED
3600.0000 - 3629.0000 MHz	NON		UNMODULATED AFC PILOT (CLOSE LOOP)
3600.0000 - 3629.0000 MHz	40K0G1W		16 QAM, DIGITAL TELEPHONY
3600.0000 - 3629.0000 MHz	400KG1F		QPSK, DIGITAL VIDEO/DATA
3600.0000 - 3629.0000 MHz	5K60G1E		QPSK, TELEPHONY
3600.0000 - 3629.0000 MHz	24K0G1E		QPSK, TELEPHONY
3600.0000 - 3629.0000 MHz	5K60G1W		QPSK, DATA/FAX
3600.0000 - 3629.0000 MHz	2K40G7D		BPSK, DATA/TDM
3600.0000 - 3629.0000 MHz	24K0G1W		QPSK, DATA/FAX
3600.0000 - 3629.0000 MHz	132KG7D		BPSK, DATA/TDM
3600.0000 - 3629.0000 MHz	7K50G1W		DIGITAL DATA
3600.0000 - 3629.0000 MHz	7K50G1E		DIGITAL DATA
3600.0000 - 3629.0000 MHz	7K50G1D		DIGITAL DATA
3600.0000 - 3629.0000 MHz	60K0D1W		DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1W		DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1E		DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1D		DIGITAL DATA
3600.0000 - 3629.0000 MHz	45K0G7D		DIGITAL DATA
3600.0000 - 3629.0000 MHz	2K50G1D		DIGITAL DATA

3600.0000 - 3629.0000 MHz	2K50F1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	20K0G1X	DIGITAL DATA
3600.0000 - 3629.0000 MHz	20K0G1E	DIGITAL DATA
3600.0000 - 3629.0000 MHz	17K5G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	10K0G1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	100KG1X	DIGITAL DATA
3600.0000 - 3629.0000 MHz	2M20G1D	BPSK, DATA
3600.0000 - 3629.0000 MHz	2K40G1D	BPSK, DATA

SITE ID: 1
LOCATION: 2120 RIVER ROAD (12.8M.), NEW HAVEN, SOUTHBRURY, CT
41 ° 27 ' 5.00 " N LAT. 73 ° 17 ' 21.00 " W LONG.

ANTENNA ID:	12.8M.	12.8 meters	PHILCO-FORD	42 FOOT
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
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	6K00G1D		Feeder link for INMARSAT-B & M
6425.0000 - 6443.0000 MHz	12K0G3E		Feeder link for INMARSAT-B & M
6425.0000 - 6443.0000 MHz	12K0G1D		Feeder link for INMARSAT-B & M
6425.0000 - 6443.0000 MHz	7K50G3E		Feeder link for INMARSAT-B & M
6425.0000 - 6443.0000 MHz	4K00G3E		Feeder link for INMARSAT-B & M
6425.0000 - 6443.0000 MHz	4K00G1D		Feeder link for INMARSAT-B & M
6420.0000 - 6424.0000 MHz	6K00G1D		Feeder link for INMARSAT-B & M
6420.0000 - 6424.0000 MHz	12K0G3E		Feeder link for INMARSAT-B & M
6420.0000 - 6424.0000 MHz	12K0G1D		Feeder link for INMARSAT-B & M
6420.0000 - 6424.0000 MHz	7K50G3E		Feeder link for INMARSAT-B & M
6420.0000 - 6424.0000 MHz	4K00G3E		Feeder link for INMARSAT-B & M

6420.0000 - 6424.0000 MHz	4K00G1D		Feeder link for INMARSAT-B & M
6417.5000 - 6443.0000 MHz	600HG1D	65.00 dBW	Aeronautical Digital transmit channels
6417.5000 - 6443.0000 MHz	1K20G1D	65.00 dBW	Aeronautical Digital transmit channels
6417.5000 - 6443.0000 MHz	2K40G1D	65.00 dBW	Aeronautical Digital transmit channels
6417.5000 - 6443.0000 MHz	10K5G1E	69.20 dBW	Aeronautical Digital transmit channels
6417.5000 - 6440.0000 MHz	30K0F3E	77.00 dBW	STD A VOICE
6417.5000 - 6440.0000 MHz	1K20G1D	77.00 dBW	STD A Telex
6417.5000 - 6440.0000 MHz	600HG1D	77.00 dBW	STD-C Digital
6417.5000 - 6440.0000 MHz	1K20G1D	77.00 dBW	STD-C Digital
6417.5000 - 6440.0000 MHz	NON	77.00 dBW	PILOT
4195.0000 - 4199.0000 MHz	3K00G1D		Feeder link for INMARSAT-B & M
4195.0000 - 4199.0000 MHz	12K0G3E		Feeder link for INMARSAT-B & M
4195.0000 - 4199.0000 MHz	12K0G1D		Feeder link for INMARSAT-B & M
4195.0000 - 4199.0000 MHz	7K50G3E		Feeder link for INMARSAT-B & M
4195.0000 - 4199.0000 MHz	4K00G3E		Feeder link for INMARSAT-B & M
4195.0000 - 4199.0000 MHz	4K00G1D		Feeder link for INMARSAT-B & M
3600.0000 - 3629.0000 MHz	2M20G1D	0.00 dBW	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	3K00G1D		Feeder link for INMARSAT-B & M
3600.0000 - 3623.0000 MHz	12K0G3E		Feeder link for INMARSAT-B & M
3600.0000 - 3623.0000 MHz	120KG1D		Feeder link for INMARSAT-B & M
3600.0000 - 3623.0000 MHz	7K50G3E		Feeder link for INMARSAT-B & M
3600.0000 - 3623.0000 MHz	4K00G3E		Feeder link for INMARSAT-B & M
3600.0000 - 3623.0000 MHz	4K00G1D		Feeder link for INMARSAT-B & M
3600.0000 - 3623.0000 MHz	10K5G1E		AERO
3600.0000 - 3623.0000 MHz	1K20G1D		AERO
3600.0000 - 3623.0000 MHz	600HG1D		AERO
3600.0000 - 3623.0000 MHz	2K40G1D		AERO
3600.0000 - 3620.0000 MHz	30K0F3E		STD A VOICE
3600.0000 - 3620.0000 MHz	4K80G1D		STD A TELEX
3600.0000 - 3620.0000 MHz	NON		PILOT
3600.0000 - 3620.0000 MHz	1K20G1D		STD-C
3600.0000 - 3620.0000 MHz	600HG1D		STD-C
1626.5000 - 1660.5000 MHz	24K0F3E	36.00 dBW	ANALOG CARRIER
1626.5000 - 1660.5000 MHz	NON	31.00 dBW	PILOT
1626.5000 - 1660.5000 MHz	24K0G2D	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1660.5000 MHz	1K20G1D	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1660.5000 MHz	600HG1D	36.00 dBW	DIGITAL CARRIER

1626.5000 - 1660.5000 MHz	600HG2D	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1660.5000 MHz	1K20G2D	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1660.5000 MHz	10K5G2F	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1649.5000 MHz	600HG1D	15.00 dBW	AERO
1626.5000 - 1649.5000 MHz	1K20G1D	18.00 dBW	AERO
1626.5000 - 1649.5000 MHz	2K40G1D	21.00 dBW	AERO
1626.5000 - 1649.5000 MHz	10K5G1E	31.20 dBW	AERO
1626.5000 - 1647.5000 MHz	30K0F3E	37.00 dBW	STD A VOICE
1626.5000 - 1647.5000 MHz	NON	37.00 dBW	PILOT
1626.5000 - 1647.5000 MHz	1K20G1D	16.00 dBW	STD-C
1626.5000 - 1647.5000 MHz	600HG1D	16.00 dBW	STD-C
1626.5000 - 1647.5000 MHz	4K80G1D	37.00 dBW	STD A TELEX
1574.4000 - 1576.6000 MHz	2K40G2D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	1K20G1D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	600HG1D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	600HG2D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	1K20G2D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	10K5G2F		DIGITAL CARRIER
1530.0000 - 1548.0000 MHz	10K5G1E		AERO
1530.0000 - 1548.0000 MHz	2K40G1D		AERO
1530.0000 - 1548.0000 MHz	1K20G1D		AERO
1530.0000 - 1548.0000 MHz	600HG1D		AERO
1530.0000 - 1545.0000 MHz	30K0F3E		STD A VOICE
1530.0000 - 1545.0000 MHz	NON		PILOT
1530.0000 - 1545.0000 MHz	1K20G1D		STD A TELEX
1530.0000 - 1545.0000 MHz	1K20G1D		STD-C

1530.0000 - 1545.0000 MHz	600HG1D		STD-C
1525.0000 - 1559.0000 MHz	2K40G2D	0.00 dBW	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: 21LBAND

LOCATION: 2120 RIVER ROAD (12.8M.)-L-BAND, NEW HAVEN, SOUTHURY, CT

41 ° 27 ' 4.10 " N LAT.

73 ° 17 ' 20.87 " W LONG.

ANTENNA ID:	21LBAND	12.8 meters	PHILCO FORD	12.8M.
1626.5000 - 1660.5000 MHz	34K0F3E	36.00 dBW	TEST FM, TELEPHONY COMPANDED OR UNCOMPANDED	
1626.5000 - 1660.5000 MHz	NON	40.50 dBW	UNMODULATED AFC PILOT (CLOSE LOOP)	
1626.5000 - 1660.5000 MHz	40K0G1W	48.20 dBW	TEST 16 QAM DIGITAL TELEPHONY	
1626.5000 - 1660.5000 MHz	400KG1F	36.00 dBW	TEST QPSK DIGITAL VIDEO/DATA	
1626.5000 - 1660.5000 MHz	5K60G1E	36.00 dBW	TEST QPSK, TELEPHONY	
1626.5000 - 1660.5000 MHz	2K40G7D-	36.00 dBW	TEST BPSK, DATA/TDM	
1626.5000 - 1660.5000 MHz	24K0G1E	36.00 dBW	TEST QPSK, TELEPHONY	
1626.5000 - 1660.5000 MHz	5K60G1W	36.00 dBW	TEST QPSK, DATA/FAX	
1626.5000 - 1660.5000 MHz	2K40G1W	36.00 dBW	TEST QPSK, DATA/FAX	
1626.5000 - 1660.5000 MHz	132KG7D	36.00 dBW	TEST BPSK, DATA/TDM	
1626.5000 - 1660.5000 MHz	2M20G1D	36.00 dBW	TEST BPSK, DATA	
1626.5000 - 1660.5000 MHz	2K40G1D	36.00 dBW	TEST BPSK, DATA	
1574.4000 - 1576.6000 MHz	2M20G1D		TEST BPSK SPREAD SPECTRUM DATA- CLOSE LOOP	
1525.0000 - 1559.0000 MHz	34K0F3E		TEST FM, TELEPHONY COMPANDED OR UNCOMPANDED	

1525.0000 - 1559.0000 MHz	2M20G1D	TEST BPSK SPREAD SPECTRUM DATA- CLOSE LOOP
1525.0000 - 1559.0000 MHz	NON	UNMODULATED AFC PILOT (CLOSE LOOP)
1525.0000 - 1559.0000 MHz	40K0G1W	TEST 16 QAM DIGITAL TELEPHONY
1525.0000 - 1559.0000 MHz	400KG1F	TEST QPSK DIGITAL VIDEO/DATA
1525.0000 - 1559.0000 MHz	5K60G1E	TEST QPSK, TELEPHONY
1525.0000 - 1559.0000 MHz	24K0G1E	TEST QPSK, TELEPHONY
1525.0000 - 1559.0000 MHz	5K60G1W	TEST QPSK, DATA/FAX
1525.0000 - 1559.0000 MHz	2K40G7D	TEST BPSK, DATA/TDM
1525.0000 - 1559.0000 MHz	2K40G1W	TEST QPSK, DATA/FAX
1525.0000 - 1559.0000 MHz	132KG7D	TEST BPSK, DATA/TDM
1525.0000 - 1559.0000 MHz	2M20G1D	TEST BPSK, DATA
1525.0000 - 1559.0000 MHz	2K40G1D	TEST BPSK, DATA

SITE ID: 23ACTTC
LOCATION: 2120 RIVER ROAD (10.4M.)-C-BAND, NEW HAVEN, SOUTHURY, CT
41 ° 27 ' 4.54 " N LAT. 73 ° 17 ' 21.54 " W LONG.

ANTENNA ID: 23ACTTC 10.4 meters PHILCO FORD 10.4M.
5925.0000 - 6425.0000 MHz 36M0F8W 86.50 dBW TEST ANALOG CARRIER TO
MONITOR TRANSPONDER
PERFORMANCE

SITE ID: 23ACNOR
LOCATION: 2120 RIVER ROAD (10.4M.)-C-BAND, NEW HAVEN, SOUTHURY, CT
41 ° 27 ' 4.54 " N LAT. 73 ° 17 ' 21.54 " W LONG.

ANTENNA ID: 23ACNOR 10.4 meters PHILCO FORD 10.4M.
6454.4000 - 6456.6000 MHz 2M20G1D 73.50 dBW BPSK SPREAD SPECTRUM DATA
(NAVIGATION)
6425.0000 - 6454.0000 MHz 7K50G1W 58.40 dBW DIGITAL DATA
6425.0000 - 6454.0000 MHz 7K50G1E 62.20 dBW DIGITAL DATA
6425.0000 - 6454.0000 MHz 7K50G1D 59.10 dBW DIGITAL DATA
6425.0000 - 6454.0000 MHz 60K0D1W 65.90 dBW DIGITAL DATA

6425.0000 - 6454.0000 MHz	5K00G1W	51.90 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	5K00G1E	51.90 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	5K00G1D	61.80 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	45K0G7D	66.00 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	2K50G1D	65.70 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	2K50F1D	58.80 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	20K0G1E	56.80 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	17K5G1D	61.40 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	10K0G1X	61.20 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	10K0G1W	59.70 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	100KG1X	60.80 dBW	DIGITAL DATA
6424.0000 - 6454.0000 MHz	34K0F3E	59.50 dBW	FM TELEPHONY COMPANDED AND UNCOMPANDED
6424.0000 - 6454.0000 MHz	27K0F3W	59.50 dBW	FM9 ANALOG BROADCAST CARRIER
6424.0000 - 6454.0000 MHz	400KG1F	59.50 dBW	QPSK, DIGITAL VIDEO/DATA
6424.0000 - 6454.0000 MHz	40K0G1W	60.80 dBW	16 QAM DIGITAL TELEPHONY
6424.0000 - 6454.0000 MHz	NON	59.50 dBW	UNMODULATED AFC PILOT
6424.0000 - 6454.0000 MHz	5K60G1E	53.20 dBW	QPSK, TELEPHONY
6424.0000 - 6454.0000 MHz	24K0G1E	58.60 dBW	QPSK, TELEPHONY
6424.0000 - 6454.0000 MHz	5K60G1W	52.30 dBW	QPSK, DATA/FAX
6424.0000 - 6454.0000 MHz	2K40G7D	48.60 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	24K0G1W	58.60 dBW	QPSK, DATA/FAX
6424.0000 - 6454.0000 MHz	132KG7D	59.50 dBW	BPSK, DATA/TDM
6424.0000 - 6454.0000 MHz	2M20G1D	71.70 dBW	BPSK, DATA
6424.0000 - 6454.0000 MHz	2K40G1D	48.60 dBW	BPSK, DATA
5927.0000 - 5927.0000 MHz	NON	50.80 dBW	TT&C RANGING CARRIER

3947.0000 - 3953.0000 MHz	131KG2D	PCM/PSK/BI-PHASE TRACKING BEACON
3700.0000 - 4200.0000 MHz	36M0F8W	TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
3600.0000 - 3629.0000 MHz	34K0F3E	FM TELEPHONY COMPANDED AND UNCOMPANDED
3600.0000 - 3629.0000 MHz	2M20G1D	BPSK SPREAD SPECTRUM DATA (NAVIGATION)
3600.0000 - 3629.0000 MHz	400KG1F	QPSK, DIGITAL VIDEO/DATA
3600.0000 - 3629.0000 MHz	40K0G1W	16 QAM DIGITAL TELEPHONY
3600.0000 - 3629.0000 MHz	NON	UNMODULATED AFC PILOT
3600.0000 - 3629.0000 MHz	5K60G1E	QPSK, TELEPHONY
3600.0000 - 3629.0000 MHz	24K0G1E	QPSK, TELEPHONY
3600.0000 - 3629.0000 MHz	5K60G1W	QPSK, DATA/FAX
3600.0000 - 3629.0000 MHz	2K40G7D	BPSK, DATA/TDM
3600.0000 - 3629.0000 MHz	24K0G1W	QPSK, DATA/FAX
3600.0000 - 3629.0000 MHz	132KG7D	BPSK, DATA/TDM
3600.0000 - 3629.0000 MHz	7K50G1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	7K50G1E	DIGITAL DATA
3600.0000 - 3629.0000 MHz	7K50G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	60K0D1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1E	DIGITAL DATA
3600.0000 - 3629.0000 MHz	5K00G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	45K0G7D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	2K50G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	2K50F1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	20K0G1X	DIGITAL DATA

3600.0000 - 3629.0000 MHz	20K0G1E	DIGITAL DATA
3600.0000 - 3629.0000 MHz	17K5G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	10K0G1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	100KG1X	DIGITAL DATA
3600.0000 - 3629.0000 MHz	2M20G1D	BPSK, DATA
3600.0000 - 3629.0000 MHz	2K40G1D	BPSK, DATA

SITE ID: 23BLBAND
LOCATION: 2120 RIVER ROAD (1.8M.)-BL-BAND, NEW HAVEN, SOUTHURRY, CT
41 ° 27 ' 4.54 " N LAT. 73 ° 17 ' 21.80 " W LONG.

ANTENNA ID: 23BLBAND	1.8 meters	TRUE FOCUS	1.8M.
1626.5000 - 1660.5000 MHz	NON	27.20 dBW	UNMODULATED AFC PILOT (CLOSE LOOP)
1574.4000 - 1576.6000 MHz	2M20G1D		TEST BPSK SPREAD SPECTRUM DATA- CLOSE LOOP
1525.0000 - 1559.0000 MHz	34K0F3E		TEST FM, TELEPHONY COMPANDED AND UNCOMPANDED
1525.0000 - 1559.0000 MHz	2M20G1D		TEST BPSK SPREAD SPECTRUM DATA- CLOSE LOOP
1525.0000 - 1559.0000 MHz	400KG1F		TEST QPSK, DIGITAL VIDEO/DATA
1525.0000 - 1559.0000 MHz	40K0G1W		TEST 16 QAM DIGITAL TELEPHONY
1525.0000 - 1559.0000 MHz	5K60G1E		TEST QPSK, TELEPHONY
1525.0000 - 1559.0000 MHz	24K0G1E		TEST QPSK, TELEPHONY
1525.0000 - 1559.0000 MHz	5K60G1W		TEST QPSK, DATA/FAX
1525.0000 - 1559.0000 MHz	2K40G7D		TEST BPSK, DATA/TDM
1525.0000 - 1559.0000 MHz	24K0G1W		TEST QPSK, DATA/FAX
1525.0000 - 1559.0000 MHz	132KG7D		TEST BPSK, DATA/TDM
1525.0000 - 1559.0000 MHz	NON		UNMODULATED AFC PILOT
1525.0000 - 1559.0000 MHz	2M20G1D		TEST BPSK, DATA
1525.0000 - 1559.0000 MHz	2K40G1D		TEST BPSK, DATA

Points of Communication:

1 - INMARSAT 4F2 - (52.75)

1 - INMARSAT 4F3 - (98 W.L.)

1 - INMARSAT Ltd-3 - (15.5 W.L.)

1 - INMARSAT-2 AOR-EAST - (17 W.L.)

1 - INMARSAT-2 AOR-WEST - (98 W.L.)

1 - ISAT List -

1 - MARISAT-F2 - (33.9 W.L.)

21CNORM - INMARSAT 3F2 - (15.5 W.L.)

21CNORM - INMARSAT 3F4 - (54 W.L.)

21CNORM - INMARSAT 4F3 - (97.65 W.L.)

21CNORM - PERMITTED LIST - ()

21CTTC/HUB - INMARSAT 3F2 - (15.5 W.L.)

21CTTC/HUB - INMARSAT 3F4 - (54 W.L.)

21CTTC/HUB - INMARSAT 4F3 - (97.65 W.L.)

21CTTC/HUB - PERMITTED LIST - ()

21LBAND - ISAT List -

23ACNOR - INMARSAT 3F2 - (15.5 W.L.)

23ACNOR - INMARSAT 3F4 - (54 W.L.)

23ACNOR - INMARSAT 4F3 - (97.65 W.L.)

23ACNOR - PERMITTED LIST - ()

23ACTTC - INMARSAT 3F2 - (15.5 W.L.)

23ACTTC - INMARSAT 3F4 - (54 W.L.)

23ACTTC - INMARSAT 4F3 - (97.65 W.L.)

23ACTTC - PERMITTED LIST - ()

23BLBAND - ISAT List -

SES-MOD-20151009-00698 E KA312 Comsat, Inc.
 Application for Modification
 Grant of Authority

02/27/2009 - 02/27/2024
 Date Effective: 04/25/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SOUTHBURY
 LOCATION: 2120 RIVER RD., NEW HAVEN, SOUTHBURY, CT
 41 ° 27 ' 6.30 " N LAT. 73 ° 17 ' 21.40 " W LONG.

ANTENNA ID:	1.52M	1.52 meters	COMSAT LABS	
1626.5000 - 1660.5000 MHz		NON	31.00 dBW	PILOT
1626.5000 - 1660.5000 MHz		24K0F3E	36.00 dBW	ANALOG CARRIER
1626.5000 - 1660.5000 MHz		10K5G2F	36.00 dBW	DIGTIAL CARRIER
1626.5000 - 1660.5000 MHz		1K20G1D	36.00 dBW	DIGTIAL CARRIER
1626.5000 - 1660.5000 MHz		1K20G2D	36.00 dBW	DIGTIAL CARRIER
1626.5000 - 1660.5000 MHz		2K40G2D	36.00 dBW	DIGTIAL CARRIER
1626.5000 - 1660.5000 MHz		600HG1D	36.00 dBW	DIGTIAL CARRIER
1626.5000 - 1660.5000 MHz		600HG2D	36.00 dBW	DIGTIAL CARRIER
1626.5000 - 1649.5000 MHz		10K5G1E	31.20 dBW	AERO
1626.5000 - 1649.5000 MHz		1K20G1D	18.00 dBW	AERO
1626.5000 - 1649.5000 MHz		2K40G1D	21.00 dBW	AERO
1626.5000 - 1649.5000 MHz		600HG1D	15.00 dBW	AERO
1626.5000 - 1647.5000 MHz		NON	37.00 dBW	PILOT
1626.5000 - 1647.5000 MHz		1K20G1D	16.00 dBW	STD-C
1626.5000 - 1647.5000 MHz		600HG1D	16.00 dBW	STD-C
1626.5000 - 1647.5000 MHz		30K0F3E	37.00 dBW	STA A VOICE
1626.5000 - 1647.5000 MHz		4K80G1D	37.00 dBW	STD A TELEX
1574.4000 - 1576.6000 MHz		10K5G2F		DIGTIAL CARRIER
1574.4000 - 1576.6000 MHz		1K20G1D		DIGTIAL CARRIER
1574.4000 - 1576.6000 MHz		1K20G2D		DIGTIAL CARRIER
1574.4000 - 1576.6000 MHz		2K40G1D		DIGTIAL CARRIER
1574.4000 - 1576.6000 MHz		600HG1D		DIGTIAL CARRIER
1574.4000 - 1576.6000 MHz		600HG2D		DIGTIAL CARRIER

1530.0000 - 1548.0000 MHz	10K5G1E		AERO
1530.0000 - 1548.0000 MHz	1K20G1D		AERO
1530.0000 - 1548.0000 MHz	2K40G1D		AERO
1530.0000 - 1548.0000 MHz	600HG1D		AERO
1530.0000 - 1545.0000 MHz	NON		PILOT
1530.0000 - 1545.0000 MHz	1K20G1D		STD-C
1530.0000 - 1545.0000 MHz	600HG1D		STD-C
1530.0000 - 1545.0000 MHz	1K20G1D		STRD A TELEX
1530.0000 - 1545.0000 MHz	30K0F3E		STD A VOICE
1525.0000 - 1599.0000 MHz	10K5G2F		DIGTIAL CARRIER
1525.0000 - 1599.0000 MHz	1K20G1D		DIGTIAL CARRIER
1525.0000 - 1599.0000 MHz	1K20G2D	0.00 dBW	DIGTIAL CARRIER
1525.0000 - 1559.0000 MHz	2K40G1D	0.00 dBW	DIGTIAL CARRIER
1525.0000 - 1559.0000 MHz	600HG1D	0.00 dBW	DIGTIAL CARRIER
1525.0000 - 1559.0000 MHz	600HG2D	0.00 dBW	DIGTIAL CARRIER
ANTENNA ID: 11M	11 meters	SCIENTIFIC-ATLANTA	8007
6454.4000 - 6456.6000 MHz	1K20G1D	42.50 dBW	DIGTIAL CARRIER
6454.4000 - 6456.6000 MHz	10K5G2F	42.50 dBW	DIGTIAL CARRIER
6454.4000 - 6456.6000 MHz	1K20G2D	42.50 dBW	DIGTIAL CARRIER
6454.4000 - 6456.6000 MHz	2K40G2D	42.50 dBW	DIGTIAL CARRIER
6454.4000 - 6456.6000 MHz	2M20G1D	78.00 dBW	DIGTIAL CARRIER
6454.4000 - 6456.6000 MHz	600HG1D	42.50 dBW	DIGTIAL CARRIER
6454.4000 - 6456.6000 MHz	600HG2D	42.50 dBW	DIGTIAL CARRIER
6454.4000 - 6456.6000 MHz	2M20G1D	82.30 dBW	BPSK SPREAD SPECTRUM DATA (NAVIGATION) TO SUPPORT FAA-WASS PROGRAM
6425.0000 - 6454.0000 MHz	10K5G2F	42.50 dBW	DIGTIAL CARRIER

6425.0000 - 6454.0000 MHz	1K20G1D	42.50 dBW	DIGTIAL CARRIER
6425.0000 - 6454.0000 MHz	1K20G2D	42.50 dBW	DIGTIAL CARRIER
6425.0000 - 6454.0000 MHz	2K40G2D	42.50 dBW	DIGTIAL CARRIER
6425.0000 - 6454.0000 MHz	2M20G1D	78.00 dBW	DIGTIAL CARRIER
6425.0000 - 6454.0000 MHz	2M20G1D	82.30 dBW	DIGTIAL CARRIER
6425.0000 - 6454.0000 MHz	600HG1D	42.50 dBW	DIGTIAL CARRIER
6425.0000 - 6454.0000 MHz	600HG2D	42.50 dBW	DIGTIAL CARRIER
6417.5000 - 6443.0000 MHz	12K0G3E		INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	6K00G1D		INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	12K0G1D		INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	4K00G1D		INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	4K00G3E		INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	7K50G3E		INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	1K20G1D	65.00 dBW	AERO, FEEDERLINK
6417.5000 - 6443.0000 MHz	600HG1D	65.00 dBW	AERO, FEEDERLINK
6417.5000 - 6443.0000 MHz	2K40G1D	65.00 dBW	TDM, AERO, FEEDERLINK
6417.5000 - 6443.0000 MHz	10K5G1E	69.20 dBW	DIGITAL VOICE, AERO, FEEDERLINK
6417.5000 - 6440.0000 MHz	NON	77.00 dBW	PILOT
6417.5000 - 6440.0000 MHz	600HG1D	77.00 dBW	TDM, STD-C, FEEDERLINK
6417.5000 - 6440.0000 MHz	1K20G1D	77.00 dBW	TDM, STD-C, FEEDERLINK
6417.5000 - 6440.0000 MHz	1K20G1D	77.00 dBW	TDM, STD-A, TELEX, FEEDERLINK
6417.5000 - 6440.0000 MHz	30K0F3E	77.00 dBW	ANALOG STD-A, VOICE, FEEDERLINK
5925.0000 - 6425.0000 MHz	18M0F8F-	80.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	36M0F8F	80.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	4M00G7F-	85.80 dBW	DIGITAL VIDEO

5925.0000 - 6425.0000 MHz	36M0G7F	81.30 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	21K9G7D-	85.80 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz	72M0G7D	58.70 dBW	DIGITAL DATA
4192.5000 - 4200.0000 MHz	12K0G1D		INM B,C,M
4192.5000 - 4200.0000 MHz	12K0G3E		INM B,C,M
4192.5000 - 4200.0000 MHz	3K00G1E		INM B,C,M
4192.5000 - 4200.0000 MHz	4K00G1D		INM B,C,M
4192.5000 - 4200.0000 MHz	4K00G3E		INM B,C,M
4192.5000 - 4200.0000 MHz	7K50G3E		INM B,C,M
4192.5000 - 4200.0000 MHz	2K40G1D		TDM, AERO, FEEDERLINK
4192.5000 - 4200.0000 MHz	1K20G1D		TDM, STD-C, AERO FEEDERLINK
4192.5000 - 4200.0000 MHz	600HG1D		TDM, STD-C, AERO FEEDERLINK
4192.5000 - 4200.0000 MHz	10K5G1E		TDM, STD-C, AERO FEEDERLINK
4192.5000 - 4200.0000 MHz	4K80G1D		TDM, STD-C, AERO FEEDERLINK
4192.5000 - 4200.0000 MHz	NON		PILOT
3700.0000 - 4200.0000 MHz	18M0F8F-		ANALOG VIDEO
3700.0000 - 4200.0000 MHz	36M0F8F		ANALOG VIDEO
3700.0000 - 4200.0000 MHz	4M00G7F-		DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	21K9G7D-		DIGITAL DATA
3700.0000 - 4200.0000 MHz	72M0G7D		DIGITAL DATA
3629.4000 - 3631.6000 MHz	2M20G1D		BPSK SPREAD SPECTRUM DATA (NAVIGATION) TO SUPPORT FAA-WASS PROGRAM
3600.0000 - 3629.0000 MHz	2M20G1D		DIGITAL CARRIER
3600.0000 - 3623.0000 MHz	10K5G1E		DIGITAL VOICE, AERO
3600.0000 - 3623.0000 MHz	12K0G1D		INM B,C,M, FEEDERLINK

SITE ID: 1.8
 LOCATION: 2120 RIVER ROAD, NEW HAVEN, SOUTHURY, CT
 41 ° 27 ' 5.57 " N LAT. 73 ° 17 ' 20.60 " W LONG.

ANTENNA ID:	1.8M	1.8 meters	ANDERSEN MANUFACTURING, INC.	6FT TRUE FOCUS
1635.5000 - 1645.0000 MHz	4K80G2D	37.00 dBW	TDM, BPSK, SINGLE CHANNEL INFO, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1626.5000 - 1660.5000 MHz	24K0F3E	39.70 dBW	VOICE, FM, ANALOG, SCPC, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1626.5000 - 1660.5000 MHz	600HG1D	39.70 dBW	TDM, BPSK, SINGLE CHANNEL INFO, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1626.5000 - 1660.5000 MHz	1K20G1D	39.70 dBW	DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1626.5000 - 1660.5000 MHz	2K40G1D	39.70 dBW	DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1626.5000 - 1660.5000 MHz	10K5G1E	39.70 dBW	DIGITAL VOICE TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1626.5000 - 1660.5000 MHz	NON	39.70 dBW	PILOT	
1626.5000 - 1660.5000 MHz	600KFXN	39.70 dBW	TESTING SIGNAL TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1525.0000 - 1559.0000 MHz	24K0F3E	39.70 dBW	VOICE, FM, ANALOG, SCPC, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1525.0000 - 1559.0000 MHz	600HG1D	39.70 dBW	TDM, BPSK, SINGLE CHANNEL INFO, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	
1525.0000 - 1559.0000 MHz	1K20G1D	39.70 dBW	DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE	

1525.0000 - 1559.0000 MHz	2K40G1D	DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE
1525.0000 - 1559.0000 MHz	10K5G1E	DIGITAL VOICE TO PROVIDE TESTING CAPABILITIES FOR INMARSAT AOR & DUAL SATELLITE SERVICE
1525.0000 - 1559.0000 MHz	NON	PILOT

SITE ID: SPB1.52ML
LOCATION: 2120 RIVER ROAD, NEW HAVEN, SOUTHBURY, CT
41 ° 27 ' 5.57 " N LAT. 73 ° 17 ' 20.60 " W LONG.

ANTENNA ID: SPB1.52ML 1.52 meters COMSAT LABS 1.52M

1574.4000 - 1576.6000 MHz	10K5G2F	DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	1K20G1D	DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	1K20G2D	DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	600HG1D	DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	600HG2D	DIGITAL CARRIER
1574.0000 - 1576.6000 MHz	2K40G1D	DIGITAL CARRIER
1530.0000 - 1548.0000 MHz	10K5G1E	AERO
1530.0000 - 1548.0000 MHz	1K20G1D	AERO
1530.0000 - 1548.0000 MHz	2K40G1D	AERO
1530.0000 - 1548.0000 MHz	600HG1D	AERO
1530.0000 - 1545.0000 MHz	NON	PILOT
1530.0000 - 1545.0000 MHz	1K20G1D	STD-C
1530.0000 - 1545.0000 MHz	600HG1D	STD-C
1530.0000 - 1545.0000 MHz	30K0F3E	STD A VOICE
1530.0000 - 1545.0000 MHz	1K20G1D	STRD A TELEX
1525.0000 - 1599.0000 MHz	10K5G2F	DIGITAL CARRIER
1525.0000 - 1599.0000 MHz	1K20G1D	DIGITAL CARRIER
1525.0000 - 1599.0000 MHz	1K20G2D	DIGITAL CARRIER

1525.0000 - 1559.0000 MHz	2K40G1D			DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	600HG1D			DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	600HG2D			DIGITAL CARRIER
SITE ID: SBY11MC				
LOCATION: 2120 RIVER ROAD, NEW HAVEN, SOUTHURRY, CT				
41 ° 27 ' 5.83 " N LAT.			73 ° 17 ' 20.55 " W LONG.	
ANTENNA ID:	SPB11MC	11 meters	SCIENTIFIC ATLANTA	8007
6454.4000 - 6456.6000 MHz	10K5G2F		42.50 dBW	DIGITAL CARRIER
6454.4000 - 6456.6000 MHz	1K20G1D		42.50 dBW	DIGITAL CARRIER
6454.4000 - 6456.6000 MHz	2K40G2D		42.50 dBW	DIGITAL CARRIER
6454.4000 - 6456.6000 MHz	2M20G1D		78.00 dBW	DIGITAL CARRIER
6454.4000 - 6456.6000 MHz	600HG1D		42.50 dBW	DIGITAL CARRIER
6454.4000 - 6456.6000 MHz	600HG2D		42.50 dBW	DIGITAL CARRIER
6454.4000 - 6456.6000 MHz	2M20G1D		82.30 dBW	BPSK SPREAD SPECTRUM DATA (NAVIGATION) TO SUPPORT FAA-WASS PROGRAM
6454.4000 - 6456.6000 MHz	1K20G2D		42.50 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	10K5G2F		42.50 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	1K20G1D		42.50 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	1K20G2D		42.50 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	2K40G2D		42.50 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	600HG1D		42.50 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	600HG2D		42.50 dBW	DIGITAL CARRIER
6417.5000 - 6443.0000 MHz	1K20G1D		65.00 dBW	AERO, FEEDERLINK
6417.5000 - 6443.0000 MHz	600HG1D		65.00 dBW	AERO, FEEDERLINK
6417.5000 - 6443.0000 MHz	12K0G1D		47.30 dBW	INM B,C,M, FEEDERLINK

6417.5000 - 6443.0000 MHz	2K40G1D	65.00 dBW	TDM, AERO, FEEDERLINK
6417.5000 - 6443.0000 MHz	4K00G1D	42.50 dBW	INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	4K00G3E	42.50 dBW	INM B,CM, FEEDERLINK
6417.5000 - 6443.0000 MHz	6K00G1D	44.30 dBW	INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	7K50G3E	45.20 dBW	INM B,C,M, FEEDERLINK
6417.5000 - 6443.0000 MHz	10K5G1E	69.20 dBW	DIGITAL VOICE, AERO, FEEDERLINK
6417.5000 - 6443.0000 MHz	12K0G3E	47.30 dBW	INM B,C,M, FEEDERLINK
6417.5000 - 6440.0000 MHz	NON	77.00 dBW	DIGITAL DATA
6417.5000 - 6440.0000 MHz	1K20G1D	77.00 dBW	TDM, STD-C, FEEDERLINK
6417.5000 - 6440.0000 MHz	600HG1D	77.00 dBW	TDM, STD-C, FEEDERLINK
6417.5000 - 6440.0000 MHz	1K20G1D	77.00 dBW	TDM, STD-A, TELEX, FEEDERLINK
6417.5000 - 6440.0000 MHz	30K0F3E	77.00 dBW	ANALOG STD-A, VOICE, FEEDERLINK
5925.0000 - 6425.0000 MHz	18M0F8F	80.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	21K9G7D	85.80 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz	36M0F8F	80.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	72M0G7D	58.70 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz	36M0G7F	81.30 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	4M00G7F	85.80 dBW	DIGITAL VIDEO
4192.5000 - 4200.0000 MHz	NON		PILOT
4192.5000 - 4200.0000 MHz	10K5G1E		TDM, STD-C, AERO FEEDERLINK
4192.5000 - 4200.0000 MHz	1K20G1D		TDM, STD-C, AERO FEEDERLINK
4192.5000 - 4200.0000 MHz	4K80G1D		TDM, STD-C, AERO FEEDERLINK
4192.5000 - 4200.0000 MHz	600HG1D		TDM, STD-C, AERO FEEDERLINK
4192.5000 - 4200.0000 MHz	12K0G1D		INM B,C,M
4192.5000 - 4200.0000 MHz	12K0G3E		INM B,C,M

4192.5000 - 4200.0000 MHz	3K00G1E	INM B,C,M
4192.5000 - 4200.0000 MHz	4K00G1D	INM B,C,M
4192.5000 - 4200.0000 MHz	4K00G3E	INM B,C,M
4192.5000 - 4200.0000 MHz	7K50G3E	INM B,C,M
4192.5000 - 4200.0000 MHz	2K40G1D	TDM, AERO, FEEDERLINK
3700.0000 - 4200.0000 MHz	36M0F8F	ANALOG VIDEO
3700.0000 - 4200.0000 MHz	72M0G7D	DIGITAL DATA
3700.0000 - 4200.0000 MHz	36M0G7F	DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	4M00G7F	DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	18M0F8F	ANALOG VIDEO
3700.0000 - 4200.0000 MHz	21K9G7D	INM B,C,M, FEEDERLINK
3629.4000 - 3631.6000 MHz	2M20G1D	BPSK SPREAD SPECTRUM DATA (NAVIGATION) TO SUPPORT FAA-WASS PROGRAM
3600.0000 - 3629.0000 MHz	2M20G1D	DIGITAL CARRIER
3600.0000 - 3623.0000 MHz	10K5G1E	DIGITAL VOICE, AERO
3600.0000 - 3623.0000 MHz	12K0G1D	INM B,C,M, FEEDERLINK
3600.0000 - 3623.0000 MHz	1K20G1D	TDM, AERO, FEEDERLINK
3600.0000 - 3623.0000 MHz	2K40G1D	TDM, AERO, FEEDERLINK
3600.0000 - 3623.0000 MHz	3K00G1D	INM B,C,M, FEEDERLINK
3600.0000 - 3623.0000 MHz	4K00G1D	INM B,C,M, FEEDERLINK
3600.0000 - 3623.0000 MHz	4K00G3E	INM B,C,M, FEEDERLINK
3600.0000 - 3623.0000 MHz	4K80G1D	TDM, AERO, FEEDERLINK
3600.0000 - 3623.0000 MHz	600HG1D	TDM, AERO, FEEDERLINK
3600.0000 - 3623.0000 MHz	7K50G3E	BPSK SPREAD SPECTRUM DATA (NAVIGATION) TO SUPPORT FAA-WASS PROGRAM
3600.0000 - 3623.0000 MHz	12K0G3E	INM B,C,M, FEEDERLINK
3600.0000 - 3620.0000 MHz	NON	PILOT

3600.0000 - 3620.0000 MHz	1K20G1D	STD-C
3600.0000 - 3620.0000 MHz	600HG1D	STD-C
3600.0000 - 3620.0000 MHz	30K0F3E	STD A VOICE
3600.0000 - 3620.0000 MHz	4K80G1D	STD A TELEX

Points of Communication:

- 1.8 - INMARSAT Ltd-3 - (15.5 W.L.)
- 1.8 - INMARSAT-2 AOR-EAST - (17 W.L.)
- 1.8 - INMARSAT-2 AOR-WEST - (98 W.L.)
- 1.8 - ISAT List -
- SBY11MC - INMARSAT 3F2 - (15.5 W.L.)
- SBY11MC - INMARSAT 3F4 - (54 W.L.)
- SBY11MC - INMARSAT 4F3 - (97.65 W.L.)
- SBY11MC - PERMITTED LIST - ()
- SPB1.52ML - ISAT List -

SES-MOD-20151009-00703 E KA304 Comsat, Inc. 10/04/2011 - 10/04/2026
 Application for Modification Grant of Authority Date Effective: 04/25/2016

Class of Station: Mobile Earth Station

Nature of Service: Fixed Satellite Service, Mobile Satellite Service

SITE ID: 1
 LOCATION: 2120 RIVER ROAD, NEW HAVEN, SOUTHURBY, CT
 41 ° 27 ' 6.00 " N LAT. 73 ° 17 ' 23.00 " W LONG.

ANTENNA ID: 1	0.03 meters	THRANE AND THRANE, INMARSAT-C	TT-3001A CAPSAT
1626.5000 - 1646.5000 MHz	600KFXN	16.00 dBW	Test signal, L-band pilot and test carrier transmission
1626.5000 - 1646.5000 MHz	600HG1D	16.00 dBW	TDM channel, BPSK, STD-C, L-band pilot and test carrier transmission
1530.0000 - 1545.0000 MHz	600HG1D		Test signal, Monitor & test of C-band transmit signals (communications & pilot)
1530.0000 - 1545.0000 MHz	1K20G1D		TDM channel, BPSK, STD-C, Monitor & test of C-band transmit signals (communications & pilot)

1530.0000 - 1545.0000 MHz	2K40G1D	TDM channel, BPSK, STD-C, Monitor & test of C-band transmit signals (communications & pilot)
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SITE ID: HUB(8.1M)KU
 LOCATION: 2120 RIVER ROAD (8.1M.)KU, NEW HAVEN, SOUTHURY, CT
 41 ° 27 ' 6.20 " N LAT. 73 ° 17 ' 18.05 " W LONG.

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

11700.0000 - 12200.0000 MHz	200KG1F	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11700.0000 - 12200.0000 MHz	1M60G1F	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11700.0000 - 12200.0000 MHz	36M0G7W	QPSK, DIGITAL TELEPHONY
11700.0000 - 12200.0000 MHz	9K00G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	76K8G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	72M0G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	45K0G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	43K8G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	42M0G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	36M0G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	32K0G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	2M29G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	20M0G7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	100KG7W	QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	36M0F8W	QPSK DIGITAL DATA

SITE ID: HUB(6.1M)KU
LOCATION: 2120 RIVER ROAD (6.1M)KU, NEW HAVEN, SOUTHURY, CT
41 ° 27 ' 5.25 " N LAT. 73 ° 17 ' 17.15 " W LONG.

ANTENNA ID:	(6.1M)KU	6.1 meters	VERTEX	KPK
14000.0000 - 14500.0000 MHz	800KG1F	66.11 dBW	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO	
14000.0000 - 14500.0000 MHz	400KG1F	63.10 dBW	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO	
14000.0000 - 14500.0000 MHz	200KG1F	60.08 dBW	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO	
14000.0000 - 14500.0000 MHz	1M60G1F	69.12 dBW	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO	
14000.0000 - 14500.0000 MHz	36M0G7W	71.70 dBW	QPSK, DIGITAL TELEPHONY	
14000.0000 - 14500.0000 MHz	9K00G7W	46.62 dBW	QPSK DIGITAL DATA	

14000.0000 - 14500.0000 MHz	76K8G7W	55.93 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	45K0G7W	53.61 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	43K8G7W	53.49 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	36M0G7W	79.63 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	32K0G7W	52.13 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	2M29G7W	70.67 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	20M0G7W	80.08 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	100KG7W	57.07 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	36M0F8W	80.14 dBW	ANALOG VIDEO
11700.0000 - 12200.0000 MHz	800KG1F		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11700.0000 - 12200.0000 MHz	400KG1F		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11700.0000 - 12200.0000 MHz	200KG1F		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11700.0000 - 12200.0000 MHz	1M60G1F		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11700.0000 - 12200.0000 MHz	36M0G7W		QPSK, DIGITAL TELEPHONY
11700.0000 - 12200.0000 MHz	9K00G7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	76K8G7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	45K0G7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	43K8G7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	36M0G7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	32K0G7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	2M29G7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	20M0G7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	100KG7W		QPSK DIGITAL DATA
11700.0000 - 12200.0000 MHz	36M0F8W		QPSK DIGITAL DATA

SITE ID: HUB(1.2M)KU
 LOCATION: 2120 RIVER ROAD (1.2M)KU, NEW HAVEN, SOUTHURY, CT
 41 ° 27 ' 5.43 " N LAT. 73 ° 17 ' 21.00 " W LONG.

ANTENNA ID:	(1.2M)KU	1.2 meters	PRODELIN	1123
	14000.0000 - 14500.0000 MHz	64K0G7W	41.30 dBW	DIGITAL AUDIO, VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	36M0G7W	63.30 dBW	DIGITAL AUDIO, VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	1M62G7W	55.30 dBW	DIGITAL AUDIO, VIDEO, AND DATA
	14000.0000 - 14500.0000 MHz	169KG7W	55.30 dBW	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
	11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL AUDIO, VIDEO, AND DATA

SITE ID: SBY332KU
 LOCATION: 2120 RIVER ROAD (9.0M.KU), NEW HAVEN, SOUTHURY, CT
 41 ° 27 ' 5.65 " N LAT. 73 ° 17 ' 17.65 " W LONG.

ANTENNA ID:	SBY332KU	9 meters	VERTEX	9KPK
	14000.0000 - 14500.0000 MHz	200KG1F	63.10 dBW	PSK DIGITAL VIDEO AND ASSOCIATED DIGITAL AUDIO
	14000.0000 - 14500.0000 MHz	1M60G1F	72.10 dBW	PSK DIGITAL VIDEO AND ASSOCIATED DIGITAL AUDIO
	14000.0000 - 14500.0000 MHz	9K00G7W	49.60 dBW	DIGITAL VIDEO, AUDIO, AND DATA
	14000.0000 - 14500.0000 MHz	72M0G7W	88.70 dBW	DIGITAL VIDEO, AUDIO, AND DATA
	14000.0000 - 14500.0000 MHz	36M0F8W	80.10 dBW	ANALOG VIDEO
	11700.0000 - 12200.0000 MHz	200KG1F		PSK DIGITAL VIDEO AND ASSOCIATED DIGITAL AUDIO
	11700.0000 - 12200.0000 MHz	1M60G1F		PSK DIGITAL VIDEO AND ASSOCIATED DIGITAL AUDIO
	11700.0000 - 12200.0000 MHz	9K00G7W		DIGITAL VIDEO, AUDIO, AND DATA
	11700.0000 - 12200.0000 MHz	72M0G7W		DIGITAL VIDEO, AUDIO, AND DATA
	11700.0000 - 12200.0000 MHz	36M0F8W		ANALOG VIDEO

SITE ID: SBY343KU
 LOCATION: 2120 RIVER ROAD (4.8M.KU), NEW HAVEN, SOUTHURY, CT
 41 ° 27 ' 4.26 " N LAT. 73 ° 17 ' 22.36 " W LONG.

ANTENNA ID:	SBY343KU	4.8 meters	GENERAL DYNAMICS SATCOM	4.8M 037974-01
14000.0000 - 14500.0000 MHz	64K0G7W	40.00 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
14000.0000 - 14500.0000 MHz	54M0D7W	81.00 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
14000.0000 - 14500.0000 MHz	54M0D1W	81.00 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
14000.0000 - 14000.0000 MHz	45M0G7W	81.00 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
14000.0000 - 14000.0000 MHz	36M0G7W	80.60 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
14000.0000 - 14000.0000 MHz	36M0G1W	80.60 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
14000.0000 - 14000.0000 MHz	32K0G7W	50.10 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
14000.0000 - 14000.0000 MHz	32K0G1W	50.10 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
14000.0000 - 14000.0000 MHz	1M50G7W	53.00 dBW	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
11700.0000 - 12200.0000 MHz	64K0G7W		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
11700.0000 - 12200.0000 MHz	54M0D7W		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
11700.0000 - 12200.0000 MHz	54M0D1W		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
11700.0000 - 12200.0000 MHz	45M0G7W		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
11700.0000 - 12200.0000 MHz	36M0G7W		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
11700.0000 - 12200.0000 MHz	36M0G1W		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
11700.0000 - 12200.0000 MHz	32K0G7W		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	
11700.0000 - 12200.0000 MHz	32K0G1W		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS	

11700.0000 - 12200.0000 MHz	1M00G7W	DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS		
SITE ID: SBY301KU				
LOCATION: 2120 RIVER ROAD (9.0M.KU), NEW HAVEN, SOUTHURY, CT				
41 ° 27 ' 7.00 " N LAT.			73 ° 17 ' 19.75 " W LONG.	
ANTENNA ID: SBY301KU	9 meters	VERTEX	9KPK	
14000.0000 - 14500.0000 MHz	800KG1F	69.11 dBW	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO	
14000.0000 - 14500.0000 MHz	400KG1F	66.10 dBW	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO	
14000.0000 - 14500.0000 MHz	200KG1F	63.08 dBW	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO	
14000.0000 - 14500.0000 MHz	1M60G1F	72.12 dBW	PSK DIGITAL VIDEO W/ASSOC DIG AUDIO	
14000.0000 - 14500.0000 MHz	64K0G7W	58.10 dBW	DIGITAL VIDEO, AUDIO, AND DATA	
14000.0000 - 14500.0000 MHz	600KG7W	67.90 dBW	DIGITAL VIDEO, AUDIO, AND DATA	
14000.0000 - 14500.0000 MHz	45M0G7W	86.60 dBW	DIGITAL VIDEO, AUDIO, AND DATA	
14000.0000 - 14500.0000 MHz	1M86G7W	68.60 dBW	DIGITAL VIDEO, AUDIO, AND DATA	
14000.0000 - 14500.0000 MHz	36M0G7W	72.00 dBW	QPSK, DIGITAL TELEPHONY	
14000.0000 - 14500.0000 MHz	9K00G7W	49.62 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	76K8G7W	58.93 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	72M0G7W	88.55 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	45K0G7W	56.61 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	43K8G7W	56.49 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	42M0G7W	86.31 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	32K0G7W	55.13 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	2M29G7W	73.67 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	2M0G7W	83.08 dBW	QPSK DIGITAL DATA	
14000.0000 - 14500.0000 MHz	100KG7W	66.07 dBW	QPSK DIGITAL DATA	

14000.0000 - 14500.0000 MHz	6M0G7W	77.23 dBW	QPSK DIGITAL DATA
14000.0000 - 14500.0000 MHz	36M0F8W	80.14 dBW	ANALOG VIDEO
13780.0000 - 14500.0000 MHz	64K0G7W	58.10 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13780.0000 - 14500.0000 MHz	10M0G7W	80.10 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13778.0000 - 14000.0000 MHz	600KG7W	67.90 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13778.0000 - 14000.0000 MHz	45M0G7W	86.60 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13778.0000 - 14000.0000 MHz	1M86G7W	68.80 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13750.0000 - 14000.0000 MHz	36M0G7W	74.50 dBW	QPSK, DIGITAL TELEPHONY
13750.0000 - 13772.0000 MHz	600KG7W	67.90 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13750.0000 - 13772.0000 MHz	21M0G7W	83.30 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13750.0000 - 13772.0000 MHz	1M86G7W	68.80 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13750.0000 - 13770.0000 MHz	64K0G7W	58.10 dBW	DIGITAL VIDEO, AUDIO, AND DATA
13750.0000 - 13770.0000 MHz	10M0G7W	80.10 dBW	DIGITAL VIDEO, AUDIO, AND DATA
11700.0000 - 12200.0000 MHz	64K0G7W		DIGITAL VIDEO, AUDIO, AND DATA
11700.0000 - 12200.0000 MHz	10M0G7W		DIGITAL VIDEO, AUDIO, AND DATA
11450.0000 - 11700.0000 MHz	800KG1F		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11450.0000 - 11700.0000 MHz	400KG1F		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11450.0000 - 11700.0000 MHz	200KG1F		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11450.0000 - 11700.0000 MHz	1M60G1F		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
11450.0000 - 11700.0000 MHz	7M50G7W		DIGITAL VIDEO, AUDIO, AND DATA

11450.0000 - 11700.0000 MHz	64K0G7W	DIGITAL VIDEO, AUDIO, AND DATA
11450.0000 - 11700.0000 MHz	64K0G7W	DIGITAL VIDEO, AUDIO, AND DATA
11450.0000 - 11700.0000 MHz	417KG7W	DIGITAL VIDEO, AUDIO, AND DATA
11450.0000 - 11700.0000 MHz	10M0G7W	DIGITAL VIDEO, AUDIO, AND DATA
11450.0000 - 11700.0000 MHz	36M0G7W	QPSK, DIGITAL TELEPHONY
11450.0000 - 11700.0000 MHz	9K00G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	76K8G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	72M0G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	45K0G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	43K8G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	42M0G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	36M0G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	32K0G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	2M29G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	20M0G7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	100KG7W	QPSK DIGITAL DATA
11450.0000 - 11700.0000 MHz	36M0F8W	ANALOG VIDEO
10950.0000 - 11200.0000 MHz	64K0G7W	DIGITAL VIDEO, AUDIO, AND DATA
10950.0000 - 11200.0000 MHz	417KG7W	DIGITAL VIDEO, AUDIO, AND DATA
10700.0000 - 12750.0000 MHz	36M0G7W	QPSK, DIGITAL TELEPHONY

Points of Communication:

- 1 - INMARSAT Ltd-3 - (15.5 W.L.)
- 1 - INMARSAT-2 AOR-EAST - (17 W.L.)
- 1 - INMARSAT-2 AOR-WEST - (98 W.L.)

1 - ISAT List -

HUB(1.2M)KU - PERMITTED LIST - ()

HUB(6.1M)KU - PERMITTED LIST - ()

HUB(8.1M)KU - PERMITTED LIST - ()

SBY301KU - AMAZONAS 2 (S2793) - (61 W.L.)

SBY301KU - ESTRELA DO SUL 2 - (63 W.L.)

SBY301KU - PERMITTED LIST - ()

SBY301KU - TELSTAR 11N (S2357) - (37.5 W.L.)

SBY332KU - PERMITTED LIST - ()

SBY343KU - PERMITTED LIST - ()

SES-MOD-20151009-00704 E KA313 Comsat, Inc.

Application for Modification

02/20/2010 - 02/20/2025

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Fixed Earth Stations

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: 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
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

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: 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
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

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
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10950.0000 - 11200.0000 MHz	1M00G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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SITE ID: (Ku) ESV TTSAIL900

LOCATION: Operate up to 500 remotes (1.0M) US Internation water

ANTENNA ID:	T&TSAI900	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
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14000.0000 - 14500.0000 MHz	89K6G1W	39.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	81K0G7W	39.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	717KG1W	48.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	452KG7W	46.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	44K8G1W	36.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	445KG7W	46.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	388KG7W	45.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	2M35G1W	53.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	291KG7W	44.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	1M43G1W	51.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	194KG7W	42.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	151KG7W	41.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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11450.0000 - 12200.0000 MHz	89K6G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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11450.0000 - 12200.0000 MHz	81K0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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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: 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
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
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10950.0000 - 11200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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SITE ID: ESV/MIT/MVA120KU
LOCATION: Operate up to 500 remotes (1.2M KU-BAND) US Internation water

ANTENNA ID:	MITMVA12K	1.2 meters	MITSUBISHI	MVA120
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14000.0000 - 14500.0000 MHz	8M00G7W	55.72 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	8M00G1W	55.72 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	44K8G7W	44.22 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	44K8G1W	44.22 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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11450.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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11450.0000 - 12200.0000 MHz	54M0G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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11450.0000 - 12200.0000 MHz	44K8G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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11450.0000 - 12200.0000 MHz	44K8G1W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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10950.0000 - 11200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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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
11700.0000 - 12200.0000 MHz	54M0G7W	DIGITAL AUDIO, VIDEO, AND DATA

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

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

Points of Communication:

(C-ba) ESV9707/97/11 - NSS 9 (S2756) - (177 W.L.)

(C-ba) ESV9707/97/11 - SES-4 (S2828) - (22.0 W.L.)

(Ku) ESV REMOTE6006 - PERMITTED LIST - ()

(Ku) ESV REMOTE800A - PERMITTED LIST - ()

(Ku) ESV REMOTE900B - PERMITTED LIST - ()

(Ku) ESV TTSAIL900 - PERMITTED LIST - ()

(Ku) ESVREMOTE .75M - PERMITTED LIST - ()

ESV/4003A - GALAXY 10R - (123 W.L.)

ESV/4003A - INTELSAT 705 - (50 W.L.)

ESV/4003A - PERMITTED LIST - ()

ESV/4006 - GALAXY 10R - (123 W.L.)

ESV/4006 - INTELSAT 705 - (50 W.L.)

ESV/4006 - PERMITTED LIST - ()

ESV/4996T - GALAXY 10R - (123 W.L.)

ESV/4996T - INTELSAT 705 - (50 W.L.)

ESV/4996T - PERMITTED LIST - ()

ESV/9711QOR-C - NSS 9 (S2756) - (177 W.L.)

ESV/9711QOR-C - SES-4 (S2828) - (22.0 W.L.)

ESV/9711QOR-KU - NSS 9 (S2756) - (177 W.L.)

ESV/9711QOR-KU - PERMITTED LIST - ()

ESV/9711QOR-KU - SES-4 (S2828) - (22.0 W.L.)

ESV/INTV100KU - NSS 9 (S2756) - (177 W.L.)

ESV/INTV100KU - PERMITTED LIST - ()

ESV/INTV100KU - SES-4 (S2828) - (22.0 W.L.)

ESV/INTV130KU - NSS 9 (S2756) - (177 W.L.)

ESV/INTV130KU - PERMITTED LIST - ()

ESV/INTV130KU - SES-4 (S2828) - (22.0 W.L.)

ESV/INTV240 - NSS 9 (S2756) - (177 W.L.)

ESV/INTV240 - SES-4 (S2828) - (22.0 W.L.)

ESV/MIT/MVA120KU - NSS 9 (S2756) - (177 W.L.)

ESV/MIT/MVA120KU - PERMITTED LIST - ()

ESV/MIT/MVA120KU - SES-4 (S2828) - (22.0 W.L.)

ESV/MIT/MVA60KU - NSS 9 (S2756) - (177 W.L.)

ESV/MIT/MVA60KU - PERMITTED LIST - ()

ESV/MIT/MVA60KU - SES-4 (S2828) - (22.0 W.L.)

ESV/V110 - PERMITTED LIST - ()

REMOTE .75 M - NSS-7 (S2463) - (20 W.L.)

REMOTE .90 M - NSS-7 (S2463) - (20 W.L.)

REMOTE .96 M - NSS-7 (S2463) - (20 W.L.)

REMOTE 1 - PERMITTED LIST - ()

Remote 1.2m AVL - PERMITTED LIST - ()

REMOTE 1.2MSINAERO - PERMITTED LIST - ()

REMOTE 2 - PERMITTED LIST - ()

REMOTE 3 (2.4M) - PERMITTED LIST - ()

SES-MOD-20151009-00715 E KA31 Comsat, Inc.

Application for Modification

07/08/2006 - 07/08/2021

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1

LOCATION: 7676 PINE GROVE RD, VENTURA, SANTA PAULA, CA

34 ° 24 ' 5.00 " N LAT.

119 ° 4 ' 26.00 " W LONG.

ANTENNA ID:	12.8M	12.8 meters	PHILCO-FORD	42-FOOT
6454.4000 - 6456.6000 MHz		24K0F3E	77.00 dBW	Analog Voice
6454.4000 - 6456.6000 MHz		NON	77.00 dBW	Pilot
6454.4000 - 6456.6000 MHz		1K20G1D	77.00 dBW	STD-C
6454.4000 - 6456.6000 MHz		600HG1D	77.00 dBW	STD-C
6454.4000 - 6456.6000 MHz		NON	77.00 dBW	Test signal
6454.4000 - 6456.6000 MHz		600HG2D	70.00 dBW	AERO
6454.4000 - 6456.6000 MHz		1K20G2D	70.00 dBW	AERO
6454.4000 - 6456.6000 MHz		2K40G2D	70.00 dBW	AERO
6454.4000 - 6456.6000 MHz		10K5G2E	70.00 dBW	AERO
6454.4000 - 6456.6000 MHz		1K20G1D	77.00 dBW	STD- A telex
6443.0000 - 6454.0000 MHz		24K0F3E	77.00 dBW	Analog Voice
6443.0000 - 6454.0000 MHz		NON	77.00 dBW	pilot
6443.0000 - 6454.0000 MHz		1K20G1D	77.00 dBW	STD-C
6443.0000 - 6454.0000 MHz		600HG1D	77.00 dBW	STD-C
6443.0000 - 6454.0000 MHz		1K20G1D	77.00 dBW	STD-A telex
6443.0000 - 6454.0000 MHz		NON	77.00 dBW	Test signal
6443.0000 - 6454.0000 MHz		600HG2D	70.00 dBW	AERO
6443.0000 - 6454.0000 MHz		1K20G2D	70.00 dBW	AERO

6443.0000 - 6454.0000 MHz	2K40G2D	70.00 dBW	AERO
6443.0000 - 6454.0000 MHz	10K5G2E	70.00 dBW	AERO
6417.5000 - 6443.0000 MHz	24K0F3E	77.00 dBW	SCPC FM, VOICE
6417.5000 - 6443.0000 MHz	1K20G1D	77.00 dBW	TDM TELEX
6417.5000 - 6443.0000 MHz	NON	77.00 dBW	PILOT SIGNAL
6417.5000 - 6443.0000 MHz	600HG1D	77.00 dBW	STD-C DIGITAL SIGNALS
6417.5000 - 6443.0000 MHz	NON	77.00 dBW	TEST SIGNALS
6417.5000 - 6443.0000 MHz	1K20G1D	77.00 dBW	STD-C DIGITAL SIGNALS
6417.5000 - 6443.0000 MHz	600HG2D	70.00 dBW	AERONAUTICAL DIGITAL TRANSMIT CHANNELS
6417.5000 - 6443.0000 MHz	1K20G2D	70.00 dBW	AERONAUTICAL DIGITAL TRANSMIT CHANNELS
6417.5000 - 6443.0000 MHz	2K40G2D	70.00 dBW	AERONAUTICAL DIGITAL TRANSMIT CHANNELS
6417.5000 - 6443.0000 MHz	10K5G2E	70.00 dBW	AERONAUTICAL DIGITAL TRANSMIT CHANNELS
4192.5000 - 4200.0000 MHz	24K0F3E	0.00 dBW	
4192.5000 - 4200.0000 MHz	NON	0.00 dBW	
4192.5000 - 4200.0000 MHz	1K20G1D		
4192.5000 - 4200.0000 MHz	600HG1D		
4192.5000 - 4200.0000 MHz	1K20G1D		
4192.5000 - 4200.0000 MHz	NON		
4192.5000 - 4200.0000 MHz	600HG2D		
4192.5000 - 4200.0000 MHz	1K20G2D		
4192.5000 - 4200.0000 MHz	2K40G2D		
4192.5000 - 4200.0000 MHz	10K5G2E		
3600.0000 - 3629.0000 MHz	24K0F3E		
3600.0000 - 3629.0000 MHz	NON		
3600.0000 - 3629.0000 MHz	1K20G1D		

3600.0000 - 3629.0000 MHz	600HG1D		
3600.0000 - 3629.0000 MHz	1K20G1D		
3600.0000 - 3629.0000 MHz	NON		
3600.0000 - 3629.0000 MHz	600HG2D		
3600.0000 - 3629.0000 MHz	1K20G2D		
3600.0000 - 3629.0000 MHz	2K40G2D		
3600.0000 - 3629.0000 MHz	10K5G2E		
1626.5000 - 1660.5000 MHz	24K0F3E	37.00 dBW	Analog voice
1626.5000 - 1660.5000 MHz	NON	37.00 dBW	Pilot
1626.5000 - 1660.5000 MHz	1K20G1D	16.00 dBW	STD-C
1626.5000 - 1660.5000 MHz	600HG1D	16.00 dBW	STD-C
1626.5000 - 1660.5000 MHz	1K20G1D	16.00 dBW	STD-A Telex
1626.5000 - 1660.5000 MHz	NON	37.00 dBW	Test signal
1626.5000 - 1660.5000 MHz	600HG2D	15.00 dBW	AERO
1626.5000 - 1660.5000 MHz	1K20G2D	18.00 dBW	AERO
1626.5000 - 1660.5000 MHz	2K40G2D	21.00 dBW	AERO
1626.5000 - 1660.5000 MHz	10K5G2E	27.00 dBW	AERO
1574.4000 - 1576.6000 MHz	24K0F3E		
1574.4000 - 1576.6000 MHz	NON		
1574.4000 - 1576.6000 MHz	1K20G1D		
1574.4000 - 1576.6000 MHz	600HG1D		
1574.4000 - 1576.6000 MHz	1K20G1D		
1574.4000 - 1576.6000 MHz	NON		
1574.4000 - 1576.6000 MHz	600HG2D		
1574.4000 - 1576.6000 MHz	1K20G2D		
1574.4000 - 1576.6000 MHz	2K40G2D		

5925.0000 - 6425.0000 MHz	18M0F8F-	82.70 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	36M0G7F	88.00 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	4M00G7F-	83.50 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	72M0G7W	88.00 dBW	DIGITAL VOICE AND DATA
5925.0000 - 6425.0000 MHz	21K9G7W-	60.90 dBW	DIGITAL VOICE AND DATA
5925.0000 - 6425.0000 MHz	48M6G7W	83.10 dBW	DIGITAL VOICE, VIDEO AND DATA
5925.0000 - 6425.0000 MHz	69K0G7W	66.10 dBW	DIGITAL VOICE, VIDEO AND DATA
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
3700.0000 - 4200.0000 MHz	69K0G7W		DIGITAL VOICE, VIDEO AND DATA
3700.0000 - 4200.0000 MHz	6M21G7W		DIGITAL VOICE, VIDEO AND DATA
3629.4000 - 3631.6000 MHz	2M20G1D		DIGITAL DATA & FEEDERLINK TO SUPPORT FAA-WASS PROGRAM
1574.4000 - 1576.6000 MHz	2M20G1D		DIGITAL DATA & FEEDERLINK TO SUPPORT FAA-WASS PROGRAM
1545.8000 - 1548.0000 MHz	2M20G1D		DIGITAL DATA & FEEDERLINK TO SUPPORT FAA-WASS PROGRAM

Points of Communication:

SANTA PAULA - INMARSAT Ltd.-2 POR - (179 DEGR)

SANTA PAULA - INMARSAT Ltd-3 - (178 E.L.)

SANTA PAULA - ISAT List -

SANTA PAULA - PERMITTED LIST - ()

SES-MOD-20151009-00724 E E000285 Comsat, Inc.

Application for Modification

10/09/2011 - 10/09/2026

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1
LOCATION: 1000 Inmarsat B Full-duplex METs in the United States, VARIOUS

ANTENNA ID:	1	0.8 meters	NERA (80cm x 80cm)	SATURN BM	
	1626.5000 - 1646.5000 MHz		20K0G1E	33.00 dBW	VOICE, DATA, FAX O-QPSK
	1626.5000 - 1646.5000 MHz		20K0G1X	25.00 dBW	SIGNALLING BPSK
	1626.5000 - 1646.5000 MHz		100KG1X	33.00 dBW	64KBPS DATA, FAX O-QPSK
	1525.0000 - 1545.0000 MHz		20K0G1E		VOICE, DATA, FAX O-QPSK
	1525.0000 - 1545.0000 MHz		20K0G1X		SIGNALLING BPSK
	1525.0000 - 1545.0000 MHz		100KG1X		64KBPS DATA, FAX O-QPSK

Points of Communication:

- 1 - INMARSAT 4F2 - (52.75)
- 1 - INMARSAT Ltd-3 - (15.5 W.L.)
- 1 - INMARSAT Ltd-3 - (178 E.L.)
- 1 - ISAT List -

SES-MOD-20151009-00730 E E980136 Comsat, Inc.
Application for Modification 10/09/2011 - 10/09/2026
Grant of Authority Date Effective: 04/25/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service, Mobile Satellite Service

SITE ID: SAPA17 (16.4m, 1.8m)
LOCATION: 7676 PINE GROVE ROAD, VENTURA, SANTA PAULA, CA
34 ° 24 ' 6.00 " N LAT. 119 ° 4 ' 21.80 " W LONG.

ANTENNA ID:	SAPA-16.4M	16.4 meters	COMSAT RSI	16.4M	
	6538.5500 - 6558.5500 MHz		20M0X2D	85.00 dBW	DIGITAL DATA
	6454.4000 - 6456.6000 MHz		2M20G1D	83.00 dBW	DIGITAL DATA & Feederlink to support FAA-WASS program
	6440.8000 - 6443.0000 MHz		2M20G1D	83.00 dBW	DIGITAL DATA & Feederlink to support FAA-WASS program
	6352.5200 - 6536.5200 MHz		4M00X2D	85.00 dBW	DIGITAL DATA

3947.0000 - 3953.0000 MHz	131KG2D		DIGITAL DATA
3629.4000 - 3631.6000 MHz	2M20G1D		DIGITAL DATA & Feederlink to support FAA-WASS program
1574.4000 - 1576.6000 MHz	2M20G1D		DIGITAL DATA to support FAA-WASS program
1545.8000 - 1548.0000 MHz	2M20G1D		DIGITAL DATA to support FAA-WASS program
ANTENNA ID: SAPA-1.8M	1.8 meters	PRODELIN	1183-912
1573.4200 - 1577.4200 MHz	4M00X2D		NAVIGTIONAL CARRIER VIA I4F3 SATELLITE
1166.4500 - 1186.4500 MHz	20M0X2D		NAVIGTIONAL CARRIER VIA I4F3 SATELLITE

Points of Communication:

SAPA17 (16.4m, 1.8m) - INMARSAT 4F3 - (97.65 W.L.)

SAPA17 (16.4m, 1.8m) - INMARSAT 4F3 - (97.65 W.L.)

SES-MOD-20151009-00731 E E890649 Comsat, Inc.

Application for Modification

07/14/2009 - 07/14/2024

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: KUBAND ESV REMOTES

LOCATION: 1.2 M. SeaTel5009, (500 UNITS)

ANTENNA ID: SeaTel6009	1.5 meters	SEA TEL	6009
14000.0000 - 14500.0000 MHz	97K0G7W	44.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	89K6G1W	44.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	81K0G7W	44.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	717KG1W	53.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	452KG7W	51.60 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	445KG7W	51.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	388KG7W	51.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	2M35G1W	53.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG7W	49.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M43G1W	53.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG7W	48.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	151KG7W	46.90 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	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
11450.0000 - 12200.0000 MHz	717KG1W		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
ANTENNA ID: INTL V110	1.05 meters	INTELLIAN		V110
14000.0000 - 14500.0000 MHz	97K0G7W	39.30 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	89K6G1W	39.00 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	717KG1W	48.00 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	64K0G7W	37.50 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	582KG7W	47.10 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	44K8G1W	36.00 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	291KG7W	44.10 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	1M36G7W	49.80 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	194KG7W	42.40 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	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	2M60G7W			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	151KG7W			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	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	2M60G7W			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	151KG7W			DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
ANTENNA ID: SeaTel5009	1.2 meters	SEATEL		5009
14000.0000 - 14500.0000 MHz	194KG7W	45.90 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	222KG7W	46.40 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	263KG7W	47.20 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG7W	47.60 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	296KG7W	47.70 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	345KG7W	48.40 dBW		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

14000.0000 - 14500.0000 MHz	388KG7W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	417KG7W	49.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	445KG7W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	452KG7W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	518KG7W	50.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	64K0G7W	41.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	776KG7W	51.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	97K0G7W	42.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	97K0G1W	42.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	776KG1W	51.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	64K0G1W	41.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	518KG1W	50.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	452KG1W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	445KG1W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	417KG1W	49.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	388KG1W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	345KG1W	48.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	296KG1W	47.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG1W	47.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

14000.0000 - 14500.0000 MHz	263KG1W	47.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	222KG1W	46.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG1W	45.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	64K0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	64K0G1W		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
10950.0000 - 11200.0000 MHz	64K0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	64K0G1W		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
ANTENNA ID: Seat4996T	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	89K5G1W		SCPC USING QPSK AND BPSK MODULATION
ANTENNA ID: STL4009/10	1 meters	SEA TEL	4009/4010
14000.0000 - 14500.0000 MHz	89K6G1W	37.80 dBW	SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	717KG1W	46.80 dBW	SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	34.70 dBW	SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	97K0G7W	38.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	970KG7W	48.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	776KG7W	47.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	679KG7W	46.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	64K0G7W	36.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	582KG7W	45.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	485KG7W	45.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	388KG7W	44.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG7W	42.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	IM55G7W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

14000.0000 - 14500.0000 MHz	1M36G7W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M16G7W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194K6G7W	41.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	89K6G1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	717KG1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		SCPC 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	2M60G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	151KG7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	89K6G1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	717KG1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W		SCPC 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	2M60G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	151KG7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
ANTENNA ID: SeaTel5010	1.2 meters	SEA TEL	5010
14000.0000 - 14500.0000 MHz	97K0G7W	42.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	97K0G1W	42.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	776KG7W	51.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

14000.0000 - 14500.0000 MHz	776KG1W	51.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	64K0G7W	41.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	64K0G1W	41.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	518KG7W	50.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	518KG1W	50.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	452KG7W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	452KG1W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	445KG7W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	445KG1W	49.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	417KG7W	49.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	417KG1W	49.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	388KG7W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	388KG1W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	345KG7W	48.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	345KG1W	48.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	296KG7W	47.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	296KG1W	47.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG7W	47.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG1W	47.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

14000.0000 - 14500.0000 MHz	263KG7W	47.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	263KG1W	47.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	222KG7W	46.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	222KG1W	46.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG7W	45.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG1W	45.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	64K0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	64K0G1W		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
10950.0000 - 11200.0000 MHz	64K0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	64K0G1W		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

SITE ID: SANTA PAULA
LOCATION: 7676 PINE GROVE ROAD (14.2M.TIW), VENTURA, SANTA PAULA, CA
34 ° 24 ' 5.00 " N LAT. 119 ° 4 ' 29.40 " W LONG.

ANTENNA ID: 14.2M.TIW 14.2 meters TIW 14.2 M

14000.0000 - 14500.0000 MHz	64M8G7W	84.60 dBW	DIGITAL VIDEO, AUDIO AND DATA
14000.0000 - 14500.0000 MHz	69K0G7W	57.60 dBW	DIGITAL VIDEO, AUDIO AND DATA
11700.0000 - 12200.0000 MHz	69K0G7W		DIGITAL VIDEO, AUDIO AND DATA
11700.0000 - 12200.0000 MHz	6M21G7W		DIGITAL VIDEO, AUDIO AND DATA

11450.0000 - 11700.0000 MHz	69K0G7W	DIGITAL VIDEO, AUDIO AND DATA
11450.0000 - 11700.0000 MHz	6M21G7W	DIGITAL VIDEO, AUDIO AND DATA
10950.0000 - 11200.0000 MHz	69K0G7W	DIGITAL VIDEO, AUDIO AND DATA
10950.0000 - 11200.0000 MHz	6M21G7W	DIGITAL VIDEO, AUDIO AND DATA

SITE ID: KUBAND REMOTE ESV
LOCATION: 1.0 M. SeaTel4003A, (500 UNITS)

ANTENNA ID:	SeaT4003A	1 meters	SEATEL	4003A
14000.0000 - 14500.0000 MHz	44K8G1W	34.60 dBW	SCPC DIGITAL USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	538KG1W	45.50 dBW	SCPC DIGITAL USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	89K6G1W	37.70 dBW	SCPC DIGITAL USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	194KG7W	41.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	1M16G7W	48.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	1M36G7W	48.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	1M55G7W	48.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	219KG7W	42.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	388KG7W	44.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	485KG7W	45.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	582KG7W	45.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	64K0G7W	36.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	679KG7W	46.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	776KG7W	47.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	

14000.0000 - 14500.0000 MHz	970KG7W	48.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	97K0G7W	38.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11700.0000 - 12200.0000 MHz	2M60G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11700.0000 - 12200.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	89K6G1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	717KG1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	151KG7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 11700.0000 MHz	54M0G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 11700.0000 MHz	2M60G7W		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	2M60G7W		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	89K6G1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	717KG1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
ANTENNA ID: SeaTel4006	1 meters	SEATEL	4006
14000.0000 - 14500.0000 MHz	44K8G1W	34.70 dBW	SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	717KG1W	46.80 dBW	SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

14000.0000 - 14500.0000 MHz	89K6G1W	37.80 dBW	SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	388KG7W	44.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG7W	42.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M55G7W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M36G7W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M16G7W	48.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG7W	41.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	97K0G7W	38.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	970KG7W	42.80 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	776KG7W	47.10 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	679KG7W	46.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	64K0G7W	36.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	582KG7W	45.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	485KG7W	45.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	89K6G1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	717KG1W		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	44K8G1W		SCPC 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	2M60G7W		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

11450.0000 - 12200.0000 MHz	151KG7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	89K6G1W	SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	717KG1W	SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W	SCPC 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	2M60G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	151KG7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

SITE ID: KUBAND ESV REMOTE
LOCATION: 1.5 M. SeaTel6006, (500 UNITS)

ANTENNA ID:	SeaTel6006	1.5 meters	SEATEL	6006
14000.0000 - 14500.0000 MHz	97K0G7W	44.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	89K6G1W	44.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	81K0G7W	44.20 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	717KG1W	53.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	452KG7W	51.60 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	445KG7W	51.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	388KG7W	51.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	2M35G1W	53.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	291KG7W	49.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	

14000.0000 - 14500.0000 MHz	1M43G1W	53.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG7W	48.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	151KG7W	46.90 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: KUBAND REMOTE ESV
LOCATION: 1.0 M. SeaTel4006, (250 UNITS)

SITE ID: KUBAND ESV REMOTES
LOCATION: 1.0 M. STL4009/10, (500 UNITS)

SITE ID: KUBAND ESV REMOTES
 LOCATION: 1.2 M. SeaTel5010, (500 UNITS)

SITE ID: KUBAND ESV REMOTES
 LOCATION: 1.5 M. SeaTel6009, (500 UNITS)

SITE ID: KUBAND ESV REMOTES
 LOCATION: 1.05 M. INTL V110, (500 UNITS)

SITE ID: KUBAND ESV REMOTES
 LOCATION: 1.2 M. SEATEL4996T, (50 UNITS)

SITE ID: ESV REMT12
 LOCATION: 0.83 M. INTELLIAN V80G, (500 UNITS)

ANTENNA ID:	INTL V80G	0.83 meters	INTELLIAN	V80G	
	14000.0000 - 14500.0000 MHz		97K0G7W	33.17 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		89K6G1W	32.87 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		81K0G7W	32.47 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		717KG1W	41.87 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		452KG7W	39.87 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		44K8G1W	29.87 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		445KG7W	39.87 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		388KG7W	39.27 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		291KG7W	38.00 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		194KG7W	36.27 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz		151KG7W	35.17 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
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

SITE ID: ESV REMT13
LOCATION: 0.75 M. STL30/3011, (500 UNITS)

ANTENNA ID:	STL30/3011	0.75 meters	SEA TEL	usat-30/3011
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: ESV REMT14
LOCATION: 1.0 M. T&TSAIL900, (500 UNITS)

ANTENNA ID:	T&TSAIL900	1 meters	THRANE & THRANE	TT-7090A
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: ESV REMOTES10
LOCATION: 2.4 M. SEATEL9797, (500 UNITS)

ANTENNA ID: SeaTel9797 2.4 meters SEA TEL 9797

14000.0000 - 14500.0000 MHz	97K0G7W	48.25 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
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14000.0000 - 14500.0000 MHz	89K6G1W	47.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	81K0G7W	47.55 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	717KG1W	56.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	452KG7W	54.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	44K8G1W	44.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	445KG7W	54.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	388KG7W	54.35 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	2M77G1W	62.85 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	2M35G1W	62.15 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG7W	53.05 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M43G1W	59.95 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG7W	51.35 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	151KG7W	50.25 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	2M77G1W		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	81K0G7W	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	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	2M77G1W	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: ESV REMT11
LOCATION: 0.6 M. INTELLIAN V60G, (500 UNITS)

ANTENNA ID:	INTLV60G	0.6 meters	INTELLIAN	V60G
14000.0000 - 14500.0000 MHz	97K0G7W	29.60 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	89K6G1W	29.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	81K0G7W	28.90 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	717KG1W	38.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	452KG7W	36.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	44K8G1W	26.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	
14000.0000 - 14500.0000 MHz	445KG7W	36.30 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION	

14000.0000 - 14500.0000 MHz	388KG7W	35.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	291KG7W	34.40 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	194KG7W	32.70 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	151KG7W	31.60 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
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

Points of Communication:

ESV REMOTES10 - PERMITTED LIST - ()

ESV REMT11 - PERMITTED LIST - ()

ESV REMT12 - PERMITTED LIST - ()

ESV REMT13 - PERMITTED LIST - ()

ESV REMT14 - PERMITTED LIST - ()

KUBAND ESV REMOTE - AMC 23 - (172 E.L.)

KUBAND ESV REMOTE - PERMITTED LIST - ()

14000.0000 - 14500.0000 MHz	97K0G7W	43.40 dBW	SCPC AND TDM/TDMA USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	1M43G1W	52.00 dBW	SCPC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	2M35G1W	52.00 dBW	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
11450.0000 - 12200.0000 MHz	36M0G7W		SCPC AND TDM/TDMA USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	81K0G7W		SCPC AND TDM/TDMA USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	1M43G1W		SCPC USING QPSK ANAD BPSK MODULATION
11450.0000 - 12200.0000 MHz	2M35G1W		SCPC USING QPSK ANAD BPSK MODULATION
10950.0000 - 11200.0000 MHz	44K8G1W		SCPC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 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	2M35G1W		SCPC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	717KG1W		SCPC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	36M0G7W		SCPC AND TDM/TDMA USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	81K0G7W		SCPC AND TDM/TDMA USING QPSK AND BPSK MODULATION

SITE ID: SAPA19 (6.3M)
LOCATION: 7676 PINE GROVE ROAD, VENTURA, SANTA PAULA, CA
34 ° 24 ' 5.00 " N LAT. 119 ° 4 ' 29.40 " W LONG.

ANTENNA ID: SAPA19 6.3 meters VERTEX RSI

5925.0000 - 6425.0000 MHz	108KG7W	54.50 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz	203KG7W	49.40 dBW	DIGITAL DATA
3700.0000 - 4200.0000 MHz	108KG7W		DIGITAL DATA
3700.0000 - 4200.0000 MHz	203KG7W		DIGITAL DATA

SITE ID: Hub (4.5m)
LOCATION: 7676 PINE GROVE ROAD, VENTURA, SANTA PAULA, CA
34 ° 24 ' 5.00 " N LAT. 119 ° 4 ' 26.00 " W LONG.

ANTENNA ID: Hub 4.5 meters ANDREW ESA-45

14000.0000 - 14500.0000 MHz	50K0G3D	51.30 dBW	DIGITAL SERVICES
14000.0000 - 14500.0000 MHz	50K0F3X	57.30 dBW	DIGITAL SERVICES
11700.0000 - 12200.0000 MHz	50K0G3D		DIGITAL SERVICES
11700.0000 - 12200.0000 MHz	50K0F3X		DIGITAL SERVICES

SITE ID: REMOTE-1 ESV
LOCATION: 250 (1.0 m antennas), CONUS

ANTENNA ID: ESV-4003A 1 meters SEATEL 4003A

14000.0000 - 14500.0000 MHz	44K8G1W	34.40 dBW	SCPC USING QPSK AND BPSK MODULATION
14000.0000 - 14500.0000 MHz	538KG1W	45.20 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	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
11450.0000 - 12200.0000 MHz	89K6G1W		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	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
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	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

SITE ID: REMOTE-2 ESV
LOCATION: 250 (1.0 m antennas), CONUS

ANTENNA ID: ESV-4006 1 meters SEATEL 4006

14000.0000 - 14500.0000 MHz	44K8G1W	34.40 dBW	SCPC USING QPSK AND BPSK MODULATION
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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	43.80 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	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
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
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	54M0G7W	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: REMOTE-3 ESV
LOCATION: 50 (1.2 m antennas), CONUS

ANTENNA ID:	ESV-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: REMOTE-5 ESV
LOCATION: 500 (1.05M. antennas), CONUS

ANTENNA ID:	ESV-V110	1.05 meters	INTELLIAN	V110
	14000.0000 - 14500.0000 MHz	97K0G7W	39.30 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	89K6G1W	39.00 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	717KG1W	48.00 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	64K0G7W	37.50 dBW	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
	14000.0000 - 14500.0000 MHz	582KG7W	47.10 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	44K8G1W	36.00 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	291KG7W	44.10 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	1M36G7W	49.80 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	194KG7W	42.40 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	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	2M60G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11450.0000 - 12200.0000 MHz	151KG7W	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	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	2M60G7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10950.0000 - 11200.0000 MHz	151KG7W	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

Points of Communication:

Hub (4.5m) - PERMITTED LIST - ()

Hub (4.5m) - SATMEX-5 - (116.8 W.L.)

REMOTE-1 ESV - PERMITTED LIST - ()

REMOTE-1 ESV - SATMEX-5 - (116.8 W.L.)

REMOTE-2 ESV - PERMITTED LIST - ()

REMOTE-2 ESV - SATMEX-5 - (116.8 W.L.)

REMOTE-3 ESV - PERMITTED LIST - ()

REMOTE-3 ESV - SATMEX-5 - (116.8 W.L.)

REMOTE-4 ESV - PERMITTED LIST - ()

REMOTE-4 ESV - SATMEX-5 - (116.8 W.L.)

REMOTE-5 ESV - PERMITTED LIST - ()

SAPA19 (6.3M) - INTELSAT 18 (S2817) - (180 E.L.)

SAPA19 (6.3M) - NSS 9 (S2756) - (177 W.L.)

SAPA19 (6.3M) - PERMITTED LIST - ()

SES-MOD-20151009-00733 E E980137 Comsat, Inc.

Application for Modification

10/09/2011 - 10/09/2026

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 2-1.8M

LOCATION: 7376 PINE GROVE ROAD, VENTURA, SANTA PAULA, CA

34 ° 24 ' 6.00 " N LAT.

119 ° 4 ' 21.80 " W LONG.

ANTENNA ID: 1.8M 1.8 meters PRODELIN

1564.4200 - 1586.4200 MHz 22M0G7W OPERATIONAL C1 DIGITAL DATA
FAA-WAAS

1564.4200 - 1586.4200 MHz 22M0G7W IOT - DIGITAL DATA SYSTEM
TESTING FAA-WAAS

1165.4500 - 1187.4500 MHz 22M0G7W OPERATIONAL C5 DIGITAL DATA
FAA-WAAS

1165.4500 - 1187.4500 MHz 22M0G7W IOT - DIGITAL DATA SYSTEM
TESTING FAA-WAAS

SITE ID: 1-16.4M

LOCATION: 7676 PINE GROVE ROAD, VENTURA, SANTA PAULA, CA

34 ° 24 ' 6.00 " N LAT.

119 ° 4 ' 21.80 " W LONG.

ANTENNA ID: 16.4M 16.4 meters COMSAT RSI 16.4M

6679.4200 - 6701.4200 MHz 22M0G7W 83.00 dBW IOT C5 DIGITAL DATA FEEDER
LINK SYSTEM TESTING FAA-WAAS

6679.4200 - 6701.4200 MHz 22M0G7W 78.00 dBW OPERATIONAL C5 DIGITAL DATA
FEEDER FAA-WAAS

6628.2700 - 6650.2700 MHz 22M0G7W 83.00 dBW IOT C1 DIGITAL DATA FEEDER
LINK SYSTEM TESTING FAA-WAAS

6628.2700 - 6650.2700 MHz 22M0G7W 78.00 dBW OPERATIONAL C1 DIGITAL DATA
FEEDER FAA-WAAS

6454.4000 - 6456.6000 MHz 2M20G1D 83.00 dBW DIGITAL DATA & Feederlink to support
FAA-WASS program

6440.8000 - 6443.0000 MHz 2M20G1D 83.00 dBW DIGITAL DATA & Feederlink to support
FAA-WASS program

4199.6000 - 4200.0000 MHz 0M4KG7W BEACON-2 PCM

1626.5000 - 1660.5000 MHz	10K5G1E	37.00 dBW	DIGITAL VOICE TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
1626.5000 - 1660.5000 MHz	24K0F3E	37.00 dBW	VOICE, FM, ANALOG, SCPC, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
1626.5000 - 1660.5000 MHz	600HG1D	37.00 dBW	TDM, BPSK, SINGLE CHANNEL INFO, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
1525.0000 - 1559.0000 MHz	NON		PILOT
1525.0000 - 1559.0000 MHz	1K20G1D		DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
1525.0000 - 1559.0000 MHz	2K40G1D		DIGITAL DATA TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
1525.0000 - 1559.0000 MHz	10K5G1E		DIGITAL VOICE TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
1525.0000 - 1559.0000 MHz	24K0F3E		VOICE, FM, ANALOG, SCPC, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE
1525.0000 - 1559.0000 MHz	600HG1D		TDM, BPSK, SINGLE CHANNEL INFO, TO PROVIDE TESTING CAPABILITIES FOR INMARSAT POR & DUAL SATELLITE SERVICE

SITE ID: 2

LOCATION: 7676 PINE GROVE ROAD, VENTURA, SANTA PAULA, CA

34 ° 24 ' 8.10 " N LAT.

119 ° 4 ' 22.00 " W LONG.

ANTENNA ID: 2 4.8 meters VERTEX

5925.0000 - 6425.0000 MHz	10M2G1W	55.10 dBW	DIGITAL VIDEO AND DATA
5925.0000 - 6425.0000 MHz	36K6G7W	39.00 dBW	DIGITAL VIDEO AND DATA
5925.0000 - 6425.0000 MHz	73K1G1W	42.00 dBW	DIGITAL VIDEO AND DATA
5925.0000 - 6425.0000 MHz	10M2G7W	55.10 dBW	DIGITAL VIDEO AND DATA
5925.0000 - 6425.0000 MHz	146KG1W	45.00 dBW	DIGITAL VIDEO AND DATA
5925.0000 - 6425.0000 MHz	36K6G1W	39.00 dBW	DIGITAL VIDEO AND DATA

1626.5000 - 1660.5000 MHz	1K20G1D	18.00 dBW	AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1626.5000 - 1660.5000 MHz	2K40G1D	21.00 dBW	AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1626.5000 - 1660.5000 MHz	10K5G1E	27.00 dBW	AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1530.0000 - 1559.0000 MHz	24K0F3E	0.00 dBW	STD A VOICE, SCPC-FM, to support the Fourth Ocean Region Standard A Network Coordination Station
1530.0000 - 1559.0000 MHz	NON		PILOT
1530.0000 - 1559.0000 MHz	1K20G1D		STD A TEL, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1530.0000 - 1559.0000 MHz	1K20G1D		STD-C, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1530.0000 - 1559.0000 MHz	600HG1D		STD-C, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1530.0000 - 1559.0000 MHz	600HG1D		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1530.0000 - 1559.0000 MHz	1K20G1D		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1530.0000 - 1559.0000 MHz	2K40G1D		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
1530.0000 - 1559.0000 MHz	10K5G1E		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station

SITE ID: 28LBAND

LOCATION: 2120 RIVER ROAD, NEW HAVEN, SOUTHBURY, CT
41 ° 27 ' 6.95 " N LAT.

73 ° 17 ' 17.25 " W LONG.

ANTENNA ID: 28LBAND 14.2 meters TIW 14.2M DUAL

1626.5000 - 1660.5000 MHz	NON	31.00 dBW	PILOT
1626.5000 - 1660.5000 MHz	24K0F3F	36.00 dBW	ANALOG CARRIER
1626.5000 - 1660.5000 MHz	10K5G2F	36.00 dBW	DIGITAL CARRIER

1626.5000 - 1660.5000 MHz	1K20G1D	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1660.5000 MHz	1K20G2D	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1660.5000 MHz	2K40G2D	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1660.5000 MHz	600HG1D	36.00 dBW	DIGITAL CARRIER
1626.5000 - 1660.5000 MHz	600HG2D	36.00 dBW	DIGITAL CARRIER
1626.0000 - 1660.5000 MHz	300KFXN	70.00 dBW	COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
1574.4000 - 1576.6000 MHz	10K5G2F		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	1K20G1D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	1K20G2D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	2K40G2D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	600HG1D		DIGITAL CARRIER
1574.4000 - 1576.6000 MHz	600HG2D		DIGITAL CARRIER
1530.0000 - 1548.0000 MHz	NON		COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
1530.0000 - 1548.0000 MHz	600KFXN		COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
1525.0000 - 1559.0000 MHz	10K5G2F		DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	1K20G1D		DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	1K20G2D		DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	2K40G2D		DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	600HG1D		DIGITAL CARRIER
1525.0000 - 1559.0000 MHz	600HG2D		DIGITAL CARRIER

SITE ID: 28CBAND

LOCATION: 2120 RIVER ROAD, NEW HAVEN, SOUTHURY, CT
41 ° 27 ' 6.95 " N LAT.

73 ° 17 ' 17.25 " W LONG.

ANTENNA ID: 28CBAND 14.2 meters TIW 14.2 DUAL

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	1K20G1D	44.50 dBW	DIGITAL CARRIER
6454.4000 - 6456.6000 MHz	1K20G2D	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
6454.4000 - 6456.6000 MHz	600HG1D	44.50 dBW	DIGITAL CARRIER
6454.4000 - 6456.6000 MHz	600HG2D	44.50 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	100KG1X	60.80 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	10K0G1W	59.70 dBW	DIGITAL CARRIER
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
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 - 6454.0000 MHz	1K20G1D	44.50 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	10K5G2F	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	2M20G1D	78.00 dBW	DIGITAL CARRIER

6425.0000 - 6454.0000 MHz	2M20G1D	82.30 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	600HG1D	44.50 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	600HG2D	44.50 dBW	DIGITAL DATA
6425.0000 - 6443.0000 MHz	NON	70.00 dBW	COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
6425.0000 - 6443.0000 MHz	600KFXN	70.00 dBW	COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
6417.5000 - 6443.0000 MHz	12K0G1D	70.00 dBW	DIGITAL DATA
6417.5000 - 6443.0000 MHz	12K0G3E	70.00 dBW	DIGITAL DATA
6417.5000 - 6443.0000 MHz	4K00G1D	70.00 dBW	DIGITAL DATA
6417.5000 - 6443.0000 MHz	4K00G3E	70.00 dBW	DIGITAL DATA
6417.5000 - 6443.0000 MHz	6K00G1D	70.00 dBW	DIGITAL DATA
6417.5000 - 6443.0000 MHz	7K50G3E	70.00 dBW	DIGITAL DATA
6416.0000 - 6418.0000 MHz	900KF2D	75.00 dBW	ANALOG VIDEO
6170.0000 - 6180.0000 MHz	900KF2D	77.80 dBW	TT&C
5925.0000 - 6425.0000 MHz	18M0F8F	83.00 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	36M0F8F	83.50 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz	36M0G7F	87.00 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	4M00G7F	84.30 dBW	DIGITAL VIDEO
5925.0000 - 6425.0000 MHz	21K9G7W	61.70 dBW	DIGITAL VOICE, AND DATA
5925.0000 - 6425.0000 MHz	72M0G7W	87.00 dBW	DIGITAL VOICE, AND DATA
4192.5000 - 4200.0000 MHz	12K0G1D		DIGITAL DATA
4192.5000 - 4200.0000 MHz	12K0G3E		DIGITAL DATA
4192.5000 - 4200.0000 MHz	3K00G1D		DIGITAL DATA
4192.5000 - 4200.0000 MHz	4K00G1D		DIGITAL DATA
4192.5000 - 4200.0000 MHz	4K00G3E		DIGITAL DATA
4192.5000 - 4200.0000 MHz	7K50G3E		DIGITAL CARRIER

4188.0000 - 4189.0000 MHz	1K00G1D	TT&C
3945.0000 - 3955.0000 MHz	1K00G1D	TT&C
3700.0000 - 4200.0000 MHz	18M0F8F	ANALOG VIDEO
3700.0000 - 4200.0000 MHz	36M0F8F	DIGITAL DATA
3700.0000 - 4200.0000 MHz	36M0G7F	DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	4M00G7F	DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	21K9G7W	DIGITAL VOICE, AND DATA
3700.0000 - 4200.0000 MHz	72M0G7W	DIGITAL VOICE, AND DATA
3600.0000 - 3629.0000 MHz	60K0D1W	DIGITAL DATA
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	7K50G1D	DIGITAL DATA
3600.0000 - 3629.0000 MHz	7K50G1E	DIGITAL DATA
3600.0000 - 3629.0000 MHz	7K50G1W	DIGITAL DATA
3600.0000 - 3629.0000 MHz	2M20G1D	DIGITAL CARRIER
3600.0000 - 3623.0000 MHz	12K0G1D	DIGITAL DATA
3600.0000 - 3623.0000 MHz	12K0G3E	DIGITAL DATA

1 - ISAT List -

SES-MOD-20151009-00751 E E000280 Comsat, Inc.

Application for Modification

10/09/2011 - 10/09/2026

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1

LOCATION: 1000 Inmarsat M-4 full-duplex METs in the United States, VARIOUS

ANTENNA ID: 1	0 meters	NERA (80cm x 35cm)	WORLD COMMUNICATOR
1626.5000 - 1660.5000 MHz	5K00G1E	17.00 dBW	VOICE, DATA AND FAX O-QPSK
1626.5000 - 1660.5000 MHz	40K0G1W	25.00 dBW	64KBPS ISDN channel, DATA 16-QAM
1626.5000 - 1660.5000 MHz	20K0G1X	17.00 dBW	SIGNALLING BPSK
1525.0000 - 1559.0000 MHz	5K00G1E		VOICE, DATA AND FAX O-QPSK
1525.0000 - 1559.0000 MHz	40K0G1W		64KBPS ISDN channel, DATA 16-QAM
1525.0000 - 1559.0000 MHz	20K0G1X		SIGNALLING BPSK
ANTENNA ID: 2	0 meters	THRANE & THRANE (0.753m x0 .414m)	TT-3080A
1626.5000 - 1660.5000 MHz	5K00G1E	17.00 dBW	VOICE, DATA AND FAX O-QPSK
1626.5000 - 1660.5000 MHz	40K0G1W	25.00 dBW	64KBPS ISDN channel, DATA 16-QAM
1626.5000 - 1660.5000 MHz	20K0G1X	17.00 dBW	SIGNALLING BPSK
1525.0000 - 1559.0000 MHz	5K00G1E		VOICE, DATA AND FAX O-QPSK
1525.0000 - 1559.0000 MHz	40K0G1W		64KBPS ISDN channel, DATA 16-QAM
1525.0000 - 1559.0000 MHz	20K0G1X		SIGNALLING BPSK

Points of Communication:

1 - INMARSAT 4F2 - (52.75)

1 - INMARSAT Ltd-3 - (15.5 W.L.)

1 - INMARSAT Ltd-3 - (178 E.L.)

1 - ISAT List -

SES-MOD-20151009-00752 E E000282 Comsat, Inc.

Application for Modification

10/09/2011 - 10/09/2026

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1

LOCATION: 1000 Inmarsat Mini-M full-duplex METs in the United States, VARIOUS

ANTENNA ID:	1	0.26 meters	NERA (0.26m(w & h))	WORLDPHON
	1626.5000 - 1660.5000 MHz	5K00G1E	17.00 dBW	MINI-M VOICE, DATA AND FAX O-OPSK
	1626.5000 - 1660.5000 MHz	20K0G1X	17.00 dBW	SIGNALLING BPSK
	1525.0000 - 1559.0000 MHz	5K00G1E		MINI-M VOICE, DATA AND FAX O-OPSK
	1525.0000 - 1559.0000 MHz	20K0G1X		SIGNALLING BPSK
ANTENNA ID:	2	0.27 meters	THRANE & THRANE (0.27m (w) x0.20m(h))	TT3060A
	1626.5000 - 1660.5000 MHz	5K00G1E	17.00 dBW	MINI-M VOICE, DATA AND FAX O-OPSK
	1626.5000 - 1660.5000 MHz	20K0G1X	17.00 dBW	SIGNALLING BPSK
	1525.0000 - 1559.0000 MHz	5K00G1E		MINI-M VOICE, DATA AND FAX O-OPSK
	1525.0000 - 1559.0000 MHz	20K0G1X		SIGNALLING BPSK
ANTENNA ID:	3	0.27 meters	NEC (0.27m (w) x0.20m(h))	PLANET 1
	1626.5000 - 1660.5000 MHz	5K00G1E	17.00 dBW	MINI-M VOICE, DATA AND FAX O-OPSK
	1626.5000 - 1660.5000 MHz	20K0G1X	17.00 dBW	SIGNALLING BPSK
	1525.0000 - 1559.0000 MHz	5K00G1E		MINI-M VOICE, DATA AND FAX O-OPSK
	1525.0000 - 1559.0000 MHz	20K0G1X		SIGNALLING BPSK

Points of Communication:

1 - INMARSAT 4F2 - (52.75)

1 - INMARSAT Ltd-3 - (15.5 W.L.)

1 - INMARSAT Ltd-3 - (178 E.L.)

1 - ISAT List -

SES-MOD-20151009-00753 E E000283 Comsat, Inc.

Application for Modification

10/09/2011 - 10/09/2026

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Mobile Earth Station

Nature of Service: Mobile Satellite Service

SITE ID: 1

LOCATION: 1000 Inmarsat M full-duplex METs in the United States, VARIOUS

ANTENNA ID:	1	0.56 meters	NERA (0.56M(SQUARE))	SATURN M
	1626.5000 - 1660.5000 MHz		10K0G1W 27.00 dBW	VOICE, DATA, FAX O-OPSK
	1626.5000 - 1660.5000 MHz		20K0G1X 21.00 dBW	SIGNALLING BPSK
	1525.0000 - 1559.0000 MHz		10K0G1W	VOICE, DATA, FAX O-OPSK
	1525.0000 - 1559.0000 MHz		20K0G1X	SIGNALLING BPSK

Points of Communication:

1 - INMARSAT 4F2 - (52.75)

1 - INMARSAT Ltd-3 - (15.5 W.L.)

1 - INMARSAT Ltd-3 - (178 E.L.)

1 - ISAT List -

SES-MOD-20151009-00754 E E040390 Comsat, Inc.

Application for Modification

11/08/2004 - 11/08/2019

Grant of Authority

Date Effective: 04/25/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Remote

LOCATION: 6 E. 67th Street, New York, New York, NY

40 ° 46 ' 7.00 " N LAT.

73 ° 58 ' 8.00 " W LONG.

ANTENNA ID:	Remote	3.8 meters	Prodelin Corporation	1383
	6273.0000 - 6360.0000 MHz		60K0G7W 45.70 dBW	Digital voice and data
	3700.0000 - 4200.0000 MHz		60K0G7W	Digital voice and data

Points of Communication:

Remote - PERMITTED LIST - ()

SES-MOD-20160224-00175 E E2224 Alascom, Inc.
Application for Modification 09/16/2003 - 09/16/2018
Grant of Authority Date Effective: 04/20/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: THREE SAINTS AVE., OLD HARBOR, AK

57 ° 12 ' 9.20 " N LAT.

153 ° 18 ' 20.20 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA5-46A
5925.0000 - 6425.0000 MHz		15M0G7W	57.16 dBW	VARIOUS PSK & QAM- VOICE AND DATA
5925.0000 - 6425.0000 MHz		29K0G7W	41.10 dBW	VARIOUS PSK & QAM- VOICE AND DATA
3700.0000 - 4200.0000 MHz		15M0G7W		VARIOUS PSK & QAM- VOICE AND DATA
3700.0000 - 4200.0000 MHz		29K0G7W		VARIOUS PSK & QAM- VOICE AND DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20160317-00260 E E010177 Globecomm License Sub LLC
Application for Modification 08/15/2011 - 08/15/2026
Grant of Authority Date Effective: 04/25/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 9898 BREWER COURT, HOWARD, LAUREL, MD

39 ° 6 ' 45.50 " N LAT.

76 ° 49 ' 58.00 " W LONG.

ANTENNA ID:	GSM-1	12 meters	ANDREW CORP.	ES12-46
5925.0000 - 6425.0000 MHz		36M0G7D	79.01 dBW	DIGITAL, VARIOUS MODULATION, VARIOUS FEC RATE, VARIOUS DATA RATES
5925.0000 - 6425.0000 MHz		51K2G7D	50.97 dBW	DIGITAL, VARIOUS MODULATION, VARIOUS FEC RATE, VARIOUS DATA RATES

	3700.0000 - 4200.0000 MHz		36M0G7D		DIGITAL, VARIOUS MODULATION, VARIOUS FEC RATE, VARIOUS DATA RATES
	3700.0000 - 4200.0000 MHz		51K2G7D		DIGITAL, VARIOUS MODULATION, VARIOUS FEC RATE, VARIOUS DATA RATES
ANTENNA ID:	GSM-4	9.3 meters	ANDREW CORP.		ES9.3-46
	5925.0000 - 6425.0000 MHz		36M0G7D	76.91 dBW	DIGITAL, VARIOUS MODULATION, VARIOUS FEC RATE, VARIOUS DATA RATES
	5925.0000 - 6425.0000 MHz		51K2G7D	48.87 dBW	DIGITAL, VARIOUS MODULATION, VARIOUS FEC RATE, VARIOUS DATA RATES
	3700.0000 - 4200.0000 MHz		36M0G7D		DIGITAL, VARIOUS MODULATION, VARIOUS FEC RATE, VARIOUS DATA RATES
	3700.0000 - 4200.0000 MHz		51K2G7D		DIGITAL, VARIOUS MODULATION, VARIOUS FEC RATE, VARIOUS DATA RATES
ANTENNA ID:	GSM-3	9.3 meters	ANDREW CORP.		9.3M
	6576.0000 - 6645.0000 MHz		6M80G7D	72.20 dBW	DIGITAL DATA CARRIERS
	6576.0000 - 6645.0000 MHz		4M00G7D	69.90 dBW	DIGITAL DATA CARRIERS
	6425.0000 - 6534.0000 MHz		6M80G7D	72.20 dBW	DIGITAL DATA CARRIERS
	6425.0000 - 6534.0000 MHz		4M00G7D	69.90 dBW	DIGITAL DATA CARRIERS
	3700.0000 - 4200.0000 MHz		6M80G7D		DIGITAL DATA CARRIERS
	3700.0000 - 4200.0000 MHz		4M00G7D		DIGITAL DATA CARRIERS
	6425.0000 - 6534.0000 MHz		500KG7W	60.90 dBW	DIGITAL AUDIO, VIDEO, AND DATA
	6425.0000 - 6534.0000 MHz		36M0G7W	79.40 dBW	DIGITAL AUDIO, VIDEO, AND DATA
	6576.0000 - 6645.0000 MHz		36M0G7W	79.40 dBW	DIGITAL AUDIO, VIDEO, AND DATA
	6576.0000 - 6645.0000 MHz		500KG7W	60.90 dBW	DIGITAL AUDIO, VIDEO, AND DATA
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL AUDIO, VIDEO, AND DATA
	3700.0000 - 4200.0000 MHz		500KG7W		DIGITAL AUDIO, VIDEO, AND DATA
ANTENNA ID:	GSM-2	9.1 meters	ANDREW CORP.		9.1M
	5925.0000 - 6425.0000 MHz		36M0G7W	76.90 dBW	DIGITAL AUDIO, VIDEO, AND DATA

5925.0000 - 6425.0000 MHz	51K2G7W	48.90 dBW	DIGITAL AUDIO, VIDEO, AND DATA
3700.0000 - 4200.0000 MHz	51K2G7W		DIGITAL AUDIO, VIDEO, AND DATA
3700.0000 - 4200.0000 MHz	36M0G7W		DIGITAL AUDIO, VIDEO, AND DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20160302-00189 E E160030 CENTRAL STATE UNIVERSITY
 Registration 03/02/2016 - 03/02/2031
 Grant of Authority Date Effective: 04/20/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: 1400 Brush Row Road (WCSU), GREENE, WILBERFORCE, OH
 39 ° 42 ' 55.90 " N LAT. 83 ° 52 ' 24.30 " W LONG.

ANTENNA ID: 3.7M.	3.7 meters	COMTECH	3.7 METER
3700.0000 - 4200.0000 MHz	10M3G7W		Digital Data Carrier
3700.0000 - 4200.0000 MHz	30K0F1D		Digital Data Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-STA-20160218-00143 E E100089 Panasonic Avionics Corporation
 Special Temporary Authority
 Grant of Authority Date Effective: 04/26/2016

Class of Station:

On April 26, 2016, Panasonic Avionics Corporation (Panasonic) was granted special temporary authority for 180 days, beginning on April 28, 2016, to operate up to twenty-five (25) Panasonic Single-Panel Antenna, model SPA, earth stations aboard aircraft (ESAA) on Canadian-based WestJet Airlines when such aircraft are present within the United States. ESAA's will operate with the AMC-16 satellite (Call Sign S2181) at the 85° 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; the Galaxy 16 satellite (Call Sign S2687) at the 99° 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; the Galaxy 17 satellite (Call Sign S2175) at the 91° 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; and the Eutelsat 172A satellite (Call Sign S2610) at the 172° E.L. orbital location in the 14.0-14.5 GHz (Earth-to-space) and 10.95-11.2 GHz and 11.45-11.7 GHz (space-to-Earth) frequency bands.

Panasonic was also granted special temporary authority to operate previously authorized Panasonic model PPA ESAA's on U.S.-registered aircraft operating in Region 1 with the Telstar 12 Vantage satellite (S2933) at the 15° W.L. orbital location in the 14.0-14.5 GHz (Earth-to-space) and the 10.95-12.2 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20160316-00245 E E150084 HNS License Sub, LLC

Special Temporary Authority
Grant of Authority

Date Effective: 04/21/2016

Class of Station:

On April 21, 2016, HNS License Sub, LLC was granted special temporary authority for 60 days, beginning April 22, 2016, to test a satellite network gateway earth station in Albuquerque, NM, with AMC-15 (S2180) at the 105° W.L. orbital location, EchoStar XVII (Jupiter 1) (S2753) at the 107.1° W.L. orbital location, AMC-16 (S2181) at the 85° W.L. orbital location, EchoStar IX (S2179) at the 121° W.L. orbital location (S2179), Galaxy 28 (nee IA-8) (S2160) / Telstar 8(IA-8) (S2205) at the 89° W.L. orbital location, and ViaSat-1(S2747) at the 115° W.L. orbital location. Testing will be on the center frequency 28500.5 MHz (Earth-to-space), and in the 19700-20200 MHz (space-to-Earth) frequency band.

Points of Communication:

SES-STA-20160322-00265 E Universal Space Network, Inc.

Special Temporary Authority
Grant of Authority

Date Effective: 04/25/2016

Class of Station:

On April 25, 2016, Universal Space Network, Inc. was granted special temporary authority for 60 days, beginning May 24, 2016, to use its fixed earth station in Naalehu, HI, to provide telemetry, tracking and command services during launch and early orbit phase (LEOP) operations of the Galileo (FOC10 and FOC11) NGSO satellites as they proceed to medium earth orbit on the following center frequencies: 2046.051 MHz, 2051.703 MHz and 2057.355 MHz (Earth-to-space), and 2221.956 MHz, 2228.094 MHz and 2234.232 MHz (space-to-Earth).

Points of Communication:

SES-STA-20160324-00288 E E160043 Spire Global, Inc.

Special Temporary Authority
Grant of Authority

Date Effective: 04/19/2016

Class of Station:

On April 19, 2016, Spire Global Inc. was granted special temporary authority for 60 days, beginning April 19, 2016, to operate its fixed earth station in San Francisco, CA with nine Lemur 2 Phase 1 non-geostationary orbit (NGSO) satellites in: 1) 402-403 MHz (Earth-to-space) frequency band to transmit command signals; 2) 402-403 (space-to-Earth) frequency band to receive telemetry and tracking signals and as a backup Data Downlink channel; and 3) 2020-2025 MHz (space-to-Earth) frequency band to receive digital data.

Points of Communication:

SES-STA-20160324-00292 E E160038 Spire Global, Inc.

Special Temporary Authority
Grant of Authority

Date Effective: 04/19/2016

Class of Station:

On April 19, 2016, Spire Global Inc. was granted special temporary authority for 60 days, beginning April 19, 2016, to operate its fixed earth station in Piti, Guam, with nine Lemur 2 Phase 1 non-geostationary orbit (NGSO) satellites in: 1) 402-403 MHz (Earth-to-space) frequency band to transmit command signals; 2) 402-403 (space-to-Earth) frequency band to receive telemetry and tracking signals and as a backup data downlink channel; and 3) 2020-2025 MHz (space-to-Earth) frequency band to receive digital data.

Points of Communication:

SES–STA–20160324–00293 E E160037 Spire Global, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 04/19/2016

Class of Station:

On April 19, 2016, Spire Global Inc. was granted special temporary authority for 60 days, beginning April 19, 2016, to operate its fixed earth station in Naalehu, HI, with nine Lemur 2 Phase 1 non-geostationary orbit (NGSO) satellites in: 1) 402-403 MHz (Earth-to-space) frequency band to transmit command signals; 2) 402-403 (space-to-Earth) frequency band to receive telemetry and tracking signals and as a backup Data Downlink channel; and 3) 2020-2025 MHz (space-to-Earth) frequency band to receive digital data.

Points of Communication:

SES–STA–20160324–00294 E E160036 Spire Global, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 04/19/2016

Class of Station:

On April 19, 2016, Spire Global Inc. was granted special temporary authority for 60 days, beginning April 19, 2016, to operate its fixed earth station in Juneau, AK, with nine Lemur 2 Phase 1 non-geostationary orbit (NGSO) satellites in: 1) 402-403 MHz (Earth-to-space) frequency band to transmit command signals; and 2) 402-403 (space-to-Earth) frequency band to receive telemetry and tracking signals and as a backup data downlink channel.

Points of Communication:

SES–STA–20160324–00295 E E160032 Spire Global, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 04/20/2016

Class of Station:

On April 20, 2016, Spire Global Inc. was granted special temporary authority for 60 days, beginning April 20, 2016, to operate its fixed earth station in Hartford, CT, with nine Lemur 2 Phase 1 non-geostationary orbit (NGSO) satellites in: 1) 402-403 MHz (Earth-to-space) frequency band to transmit command signals; and 2) 402-403 (space-to-Earth) frequency band to receive telemetry and tracking signals and as a backup data downlink channel.

Points of Communication:

SES–STA–20160324–00296 E E160033 Spire Global, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 04/20/2016

Class of Station:

On April 20, 2016, Spire Global Inc. was granted special temporary authority for 60 days, beginning April 20, 2016, to operate its fixed earth station in Ellicot, CO, with nine Lemur 2 Phase 1 non-geostationary orbit (NGSO) satellites in: 1) 402-403 MHz (Earth-to-space) frequency band to transmit command signals; 2) 402-403 (space-to-Earth) frequency band to receive telemetry and tracking signals and as a backup data downlink channel; and 3) in the 2020-2025 MHz (space-to-Earth) frequency band to receive digital data.

Points of Communication:

SES–STA–20160324–00298 E E160034 Spire Global, Inc.
Special Temporary Authority
Grant of Authority

Date Effective: 04/20/2016

Class of Station:

On April 20, 2016, Spire Global Inc. was granted special temporary authority for 60 days, beginning April 20, 2016, to operate its earth station in Anchorage, AK, with nine Lemur 2 Phase 1 non-geostationary orbit (NGSO) satellites in: 1) 402-403 MHz (Earth-to-space) frequency band to transmit command signals; and 2) 402-403 (space-to-Earth) frequency band to receive telemetry and tracking signals and as a backup data downlink channel.

Points of Communication:

SES-STA-20160415-00350 E WA28 Comsat, Inc.
Special Temporary Authority
Grant of Authority
Date Effective: 04/20/2016

Class of Station:

On April 20, 2016, Comsat, Inc. was granted special temporary authority for 60 days, beginning April 27, 2016, to operate its fixed earth station in Southbury, CT with the Inmarsat-3 F5 satellite at the 54° W.L. orbital location in the 5925-6425 MHz and 1626-1660.5 MHz (Earth-to-space) and 3700-4200 MHz and 1525-1559 MHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20160415-00351 E KA265 Intelsat License LLC
Special Temporary Authority
Grant of Authority
Date Effective: 04/20/2016

Class of Station:

On April 20, 2016, Intelsat License LLC was granted special temporary authority for 60 days, beginning May 2, 2016, to continue to operate its fixed earth station in Paumalu, Hawaii, to conduct telemetry, tracking, and command (TT&C) services for the Intelsat 805 satellite (S2404) at the 169° E.L. orbital location using the following center frequencies: 3947.5 MHz, 3948.0 MHz, 3952.0 MHz, and 3952.5 MHz (space-to-Earth) and 6173.7 MHz and 6176.3 MHz (Earth-to-space).

Points of Communication:

CORRECTIONS

SES-MOD-20160201-00102 E010055 KETV Hearst Television Inc.
KETV Hearst Television Inc. sent notification to correct the site address from 2665 Douglas St, to 1001 South 10th St, Omaha, NE, 68108 by letter filed on April 1, 2016.

SURRENDER

SES-MOD-20080930-01265 E050008 EchoStar Broadcasting Corporation
License surrendered by letter filed on February 26, 2016.

For more information concerning this Notice, contact the Satellite Division at 418-0719; TTY 1-888-835-5322.