



# PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION  
445 12th STREET S.W.  
WASHINGTON D.C. 20554

News media information 202-418-0500  
Internet: <http://www.fcc.gov> (or <ftp.fcc.gov>)  
TTY (202) 418-2555

Report No. SES-01721

Wednesday January 28, 2015

## 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.

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**SES-ASG-20141125-00873** E E050341 KLAS, LLC  
Application for Consent to Assignment  
Grant of Authority Date Effective: 01/22/2015

**Current Licensee:** KLAS, Inc.  
**FROM:** KLAS-INC.  
**TO:** Nexstar Broadcasting, Inc.

No. of Station(s) listed: 4

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**SES-MFS-20140804-00632** E WA28 Airbus DS SatCom Government, Inc.  
Modification 04/08/2003 - 04/08/2018  
Grant of Authority Date Effective: 01/21/2015

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service, Feeder Link for Mobile Satellite Service, Mobile Satellite Service

**SITE ID:** 21CTTC/HUB  
**LOCATION:** 2120 RIVER ROAD (12.8M.)-C-BAND/L-BAND, NEW HAVEN, SOUTHURY, CT  
41 ° 27 ' 4.10 " N LAT. 73 ° 17 ' 20.87 " W LONG.

**ANTENNA ID:** 21CTTC 12.8 meters PHILCO FORD 12.8M.  
5925.0000 - 6425.0000 MHz 36M0F8W 86.50 dBW ANALOG CARRIER TO MONITOR  
TRANSPONDER PERFORMANCE

**SITE ID:** 21CNORM  
**LOCATION:** 2120 RIVER ROAD (12.8M.)-C-BAND, NEW HAVEN, SOUTHURY, CT  
41 ° 27 ' 4.10 " N LAT. 73 ° 17 ' 20.87 " W LONG.

**ANTENNA ID:** 21CNORM 12.8 meters PHILCO FORD 12.8M.  
6454.4000 - 6456.6000 MHz 2M20G1D 80.70 dBW BPSK SPREAD SPECTRUM DATA  
(NAVIGATION)

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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
5927.0000 - 5927.0000 MHz	NON	53.30 dBW	TT&C RANGING CARRIER
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
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

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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
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
3947.0000 - 3953.0000 MHz	131KG2D		PCM/PSK/BI-PHASE TRACKING BEACON
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, SOUTHURY, 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	

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6425.0000 - 6454.0000 MHz	2M20G1D	78.00 dBW	DIGITAL CARRIER
6425.0000 - 6454.0000 MHz	2M20G1D	82.30 dBW	DIGITAL CARRIER
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 - 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

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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

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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
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
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

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
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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)
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

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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
5927.0000 - 5927.0000 MHz	NON	50.80 dBW	TT&C RANGING CARRIER
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
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
6424.0000 - 6454.0000 MHz	2M20G1D	71.70 dBW	BPSK, DATA
6425.0000 - 6454.0000 MHz	10K0G1W	59.70 dBW	DIGITAL DATA
6425.0000 - 6454.0000 MHz	100KG1X	60.80 dBW	DIGITAL DATA

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6424.0000 - 6454.0000 MHz	2K40G1D	48.60 dBW	BPSK, DATA
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)
3947.0000 - 3953.0000 MHz	131KG2D		PCM/PSK/BI-PHASE TRACKING BEACON
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, SOUTHURY, 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

**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-MFS-20140808-00644**    E KA304    Airbus DS SatCom Government, Inc.  
 Modification    10/04/2011 - 10/04/2026  
 Grant of Authority    Date Effective: 01/21/2015

**Class of Station:** Fixed Earth Stations

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

SITE ID: 1  
 LOCATION: 2120 RIVER ROAD, NEW HAVEN, SOUTHURY, 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)

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

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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	

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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
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 - 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
13750.0000 - 14000.0000 MHz	36M0G7W	74.50 dBW	QPSK, DIGITAL TELEPHONY
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

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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
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
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	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
10950.0000 - 11200.0000 MHz	64K0G7W		DIGITAL VIDEO, AUDIO, AND DATA
10950.0000 - 11200.0000 MHz	417KG7W		DIGITAL VIDEO, AUDIO, AND DATA
11450.0000 - 11700.0000 MHz	36M0G7W		QPSK, DIGITAL TELEPHONY
10700.0000 - 12750.0000 MHz	36M0G7W		QPSK, DIGITAL TELEPHONY

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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

**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 - ()
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Application for Modification  
Grant of Authority

09/25/2012 - 09/25/2027

Date Effective: 01/22/2015

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

**SITE ID:** Hawaii Gateway

**LOCATION:** 58-350 Kamehameha Hwy, Honolulu, Haleiwa, HI  
21 ° 40 ' 17.80 " N LAT.

158 ° 1 ' 54.90 " W LONG.

ANTENNA ID:	Ant 1-3	7.3 meters	Viasat	MEO7
	29087.8000 - 29089.1000 MHz		500KG2D	85.14 dBW TT&C
	28600.0000 - 29100.0000 MHz		307KG7D	52.29 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	28600.0000 - 29100.0000 MHz		40M0G7D	87.29 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	28600.0000 - 29100.0000 MHz		216MG7D	87.29 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	27600.0000 - 28400.0000 MHz		307KG7D	52.29 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	27600.0000 - 28400.0000 MHz		216MX7D	87.29 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	19296.2000 - 19299.9000 MHz		300KG1D	0.00 dBW TT&C
	18800.0000 - 19300.0000 MHz		307KG7D	0.00 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	18800.0000 - 19300.0000 MHz		40M0G7D	0.00 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	18800.0000 - 19300.0000 MHz		216MG7D	0.00 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	17800.0000 - 18600.0000 MHz		307KG7D	0.00 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	17800.0000 - 18600.0000 MHz		216MG7D	0.00 dBW DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link

**Points of Communication:**

Hawaii Gateway - O3B-A (S2935) - (Eq. NGSO)



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SES-MOD-20140814-00654 E E130021 O3b Limited

Application for Modification  
Grant of Authority

06/20/2013 - 06/20/2028  
Date Effective: 01/22/2015

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: Texas Gateway  
LOCATION: 2719 County Rd 93 S, Wilbarger, South Vernon, TX  
34 ° 13 ' 4.73 " N LAT.

99 ° 23 ' 46.53 " W LONG.

ANTENNA ID:	Ant 1-3	7.3 meters	Viasat	MEO7	
	29087.8000 - 29089.1000 MHz		500KG2D	85.14 dBW	TT&C
	28600.0000 - 29100.0000 MHz		307KG7D	52.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	28600.0000 - 29100.0000 MHz		40M0G7D	87.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	28600.0000 - 29100.0000 MHz		216MG7D	87.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	27600.0000 - 28400.0000 MHz		307KG7D	52.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	27600.0000 - 28400.0000 MHz		216MG7D	87.29 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	19296.2000 - 19299.9000 MHz		300KG1D		TT&C
	18800.0000 - 19300.0000 MHz		307KG7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	18800.0000 - 19300.0000 MHz		40M0G7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	18800.0000 - 19300.0000 MHz		216MG7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	17800.0000 - 18600.0000 MHz		307KG7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link
	17800.0000 - 18600.0000 MHz		216MG7D	0.00 dBW	DVB-S2 (QPSK, 8APSK, 16APSK, 32APSK); Digital Data Link

**Points of Communication:**

Texas Gateway - O3B-A (S2935) - (Eq. NGSO)

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**SES-MOD-20140814-00655** E E130098 O3b Limited

Application for Modification

05/13/2014 - 05/13/2029

Grant of Authority

Date Effective: 01/22/2015

**Class of Station:** Fixed Earth Stations

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

SITE ID: Maritime Vessels

LOCATION: Coastal Reg. of the US: 7°-50° N.Lat.

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

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

**Points of Communication:**

Maritime Vessels - O3B-A (S2935) - (Eq. NGSO)

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**SES-MOD-20141023-00817** E E880079 CBS Broadcasting Inc.

Application for Modification

12/24/2007 - 12/24/2022

Grant of Authority

Date Effective: 01/21/2015

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

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: VARIOUS

ANTENNA ID:	1	1.5 meters	SAT-LITE TECHNOLOGIES	1500 AMT-SNG
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28350.0000 - 28600.0000 MHz	14M1G7W	78.80 dBW	QPSK, MCPC / SCPC DATA / VIDEO
28350.0000 - 28600.0000 MHz	22M6G7W	80.80 dBW	QPSK, MCPC VIDEO / DATA
28350.0000 - 28600.0000 MHz	5M70G1W	74.90 dBW	QPSK, SCPC DATA / VIDEO
28350.0000 - 28600.0000 MHz	2M90G1W	71.90 dBW	QPSK, SCPC DATA / VIDEO
28350.0000 - 28600.0000 MHz	2M20G1W	70.70 dBW	QPSK, SCPC DATA / VIDEO
28350.0000 - 28600.0000 MHz	54M0G7W	81.10 dBW	QPSK, MCPC VIDEO
28350.0000 - 28600.0000 MHz	36M0G7W	81.10 dBW	QPSK, MCPC VIDEO
28350.0000 - 28600.0000 MHz	24M0G7W	81.10 dBW	QPSK, MCPC VIDEO
19700.0000 - 20200.0000 MHz	8M50G7W		QPSK, MCPC / SCPC DATA / VIDEO
19700.0000 - 20200.0000 MHz	14M1G7W		QPSK, MCPC / SCPC DATA / VIDEO
19700.0000 - 20200.0000 MHz	22M6G7W		QPSK, MCPC VIDEO / DATA
19700.0000 - 20200.0000 MHz	5M70G1W		QPSK, SCPC DATA / VIDEO
19700.0000 - 20200.0000 MHz	2M90G1W		QPSK, SCPC DATA / VIDEO
19700.0000 - 20200.0000 MHz	2M20G1W		QPSK, SCPC DATA / VIDEO
19700.0000 - 20200.0000 MHz	54M0G7W		QPSK, MCPC VIDEO
19700.0000 - 20200.0000 MHz	36M0G7W		QPSK, MCPC VIDEO
19700.0000 - 20200.0000 MHz	24M0G7W		QPSK, MCPC VIDEO
18300.0000 - 18800.0000 MHz	8M50G7W		QPSK, MCPC / SCPC DATA / VIDEO
18300.0000 - 18800.0000 MHz	14M1G7W		QPSK, MCPC / SCPC DATA / VIDEO
18300.0000 - 18800.0000 MHz	5M70G1W		QPSK, SCPC DATA / VIDEO
18300.0000 - 18800.0000 MHz	2M90G1W		QPSK, SCPC DATA / VIDEO
18300.0000 - 18800.0000 MHz	2M20G1W		QPSK, SCPC DATA / VIDEO
18300.0000 - 18800.0000 MHz	22M6G7W		QPSK, MCPC VIDEO / DATA
18300.0000 - 18800.0000 MHz	54M0G7W		QPSK, MCPC VIDEO
18300.0000 - 18800.0000 MHz	36M0G7W		QPSK, MCPC VIDEO
18300.0000 - 18800.0000 MHz	24M0G7W		QPSK, MCPC VIDEO





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**SES-STA-20141014-00800** E E100088 O3b Limited  
Special Temporary Authority  
Grant of Authority Date Effective: 01/22/2015

**Class of Station:**

Application listed as granted in IBFS to reflect operations pursuant to Section 1.62 of the Commission's rules.

**Points of Communication:**

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**SES-STA-20141014-00801** E E130098 O3b Limited  
Special Temporary Authority  
Grant of Authority Date Effective: 01/22/2015

**Class of Station:**

Application listed as granted in IBFS to reflect operations pursuant to Section 1.62 of the Commission's rules.

**Points of Communication:**

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**SES-STA-20141014-00802** E E130021 O3b Limited  
Special Temporary Authority  
Grant of Authority Date Effective: 01/26/2015

**Class of Station:**

Application listed as granted in IBFS to reflect operations pursuant to Section 1.62 of the Commission's rules.

**Points of Communication:**

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**SES-STA-20141110-00846** E KA25 Inmarsat Mobile Networks, Inc.  
Special Temporary Authority  
Grant of Authority Date Effective: 01/26/2015

**Class of Station:**

On January 26, 2015, Inmarsat Hawaii Inc. was granted special temporary authority, for a period of 30 days, to operate its fixed antenna earth station at Haleiwa, Hawaii, to provide telemetry, tracking and command services to the Inmarsat-5 F2 satellite during its Launch and Early Orbit Phases (LEOP) operations on the following center frequencies: 4199.0 and 4199.5 MHz (space-to-Earth) and 5926.5 and 6422.5 MHz (Earth-to-space).

**Points of Communication:**

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**SES-STA-20141125-00874** E E140097 The Boeing Company  
Special Temporary Authority  
Grant of Authority Date Effective: 01/22/2015

**Class of Station:**

On January 22, 2015, The Boeing Company was granted special temporary authority, for a period of 180 days, beginning on January 22, 2015, to operate 100 aircraft earth stations that communicate with the Satmex 6 satellite at the 113° orbital location in the 11.45-12.75 GHz (space-to-Earth) and 14.0-14.5 GHz (Earth-to-space) frequency bands.

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**Points of Communication:**

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**SES-STA-20150114-00010**    E E100088    O3b Limited

Special Temporary Authority

Grant of Authority

Date Effective:    01/23/2015

**Class of Station:**

Application listed as granted in IBFS to reflect operations pursuant to Section 1.62 of the Commission's rules.

**Points of Communication:**

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