



# PUBLIC NOTICE

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

News media information 202-418-0500  
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Report No. SES-01845

Wednesday, April 27, 2016

## Satellite Communications Services re: Satellite Radio Applications Accepted For Filing

The applications listed herein have been found, upon initial review, to be acceptable for filing. The Commission reserves the right to return any of the applications if, upon further examination, it is determined they are defective and not in conformance with the Commission's Rules and Regulations and its Policies. Final action will not be taken on any of these applications earlier than 30 days following the date of this notice. 47 U.S.C. § 309(b). All applications accepted for filing will be assigned call signs, or other unique station identifiers. However, these assignments are for administrative purposes only and do not in any way prejudice Commission action.

SES-LIC-20160401-00316 E E160061 UltiSat, Inc.

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: North Star Burrough, Eielson AFB, AK

64 ° 42 ' 0.00 " N LAT.

147 ° 3 ' 21.00 " W LONG.

ANTENNA ID:	2.4M.	2.4 meters	Prodelin	1251
	3700.0000 - 4200.0000 MHz		100KG7D	Digital Data Carrier
	3700.0000 - 4200.0000 MHz		87K0G7D	Digital Data Carrier
	5925.0000 - 6126.0000 MHz		100KG7D	45.97 dBW Digital Data Carrier
	5925.0000 - 6126.0000 MHz		87K0G7D	45.37 dBW Digital Data Carrier
	6182.0000 - 6349.0000 MHz		100KG7D	45.97 dBW Digital Data Carrier
	6182.0000 - 6349.0000 MHz		87K0G7D	45.37 dBW Digital Data Carrier

### Points of Communication:

1 - NSS 9 (S2756) - (177 W.L.)

Modification

**Class of Station:** Fixed Earth Stations

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

Comsat, Inc. requests modification of its fixed earth station in Southbury, CT, to operate with the Inmarsat-3F5 satellite at the 54° W.L. orbital location on currently authorized frequencies.

SITE ID: 21CTTC/HUB

LOCATION: 2120 RIVER ROAD (12.8M.)-C-BAND/L-BAND, NEW HAVEN, SOUTHBURY, 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, SOUTHBURY, CT  
 41 ° 27 ' 4.10 " N LAT. 73 ° 17 ' 20.90 " 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)
	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

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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
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

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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

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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 - 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	12K0G1D		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

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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

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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
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 ' 20.97 " 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

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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 ' 4.50 " N LAT.		73 ° 17 ' 21.50 " 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 ' 4.50 " N LAT.		73 ° 17 ' 21.00 " 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
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

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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
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 ' 4.50 " 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 - ISAT List -
- 21CNORM - INMARSAT 3F2 - (15.5 W.L.)
- 21CNORM - INMARSAT 3F5 - (54 W.L.)
- 21CNORM - INMARSAT 4F3 - (97.65 W.L.)
- 21CNORM - PERMITTED LIST - ()
- 21CTTC/HUB - INMARSAT 3F2 - (15.5 W.L.)
- 21CTTC/HUB - INMARSAT 3F5 - (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.)

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23ACNOR - INMARSAT 3F5 - (54 W.L.)

23ACNOR - INMARSAT 3F5 - (54 W.L.)

23ACNOR - PERMITTED LIST - ()

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

23ACTTC - INMARSAT 3F5 - (54 W.L.)

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

23ACTTC - PERMITTED LIST - ()

23BLBAND - ISAT List -

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**SES-MOD-20160323-00271** E E960222 Denali 20020, LLC

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

Denali 20020 LLC requests modification of its fixed earth station in Brewster, WA, to operate with Permitted List satellites in the 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands.

SITE ID: 1

LOCATION: 1711 OLD HWY. 97, OKANOGAN, BREWSTER, WA

48 ° 8 ' 50.50 " N LAT.

119 ° 41 ' 33.20 " W LONG.

ANTENNA ID:	1	9 meters	VERTEX	9KPC	
	5850.0000 - 6425.0000 MHz		2M40G7D	83.50 dBW	
	5850.0000 - 6425.0000 MHz		36M0G7F	83.50 dBW	
	5850.0000 - 6425.0000 MHz		36M0F3F	83.50 dBW	
	3625.0000 - 4200.0000 MHz		2M40G7D		
	3625.0000 - 4200.0000 MHz		36M0G7F		
	3625.0000 - 4200.0000 MHz		36M0F3F		
	14000.0000 - 14500.0000 MHz		72M0G7D	88.70 dBW	DIGITAL DATA AND VIDEO
	11700.0000 - 12200.0000 MHz		72M0G7D		DIGITAL DATA AND VIDEO

**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-MOD-20160324-00275** E KA399 Telesat Network Services, Inc.

Application for Modification

**Class of Station:** Fixed Earth Stations

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**Nature of Service:** Fixed Satellite Service

Telesat Network Services Inc. requests modification of its fixed earth station in Mt. Jackson, VA, to operate Antenna ID 15M with the Telstar 12V (S2933) satellite at the 15° W.L. orbital location in the 10.95-11.20 GHz and 11.7-12.2 GHz (space-to-Earth) and the 13.75-14.50 GHz (Earth-to-space) frequency bands.

SITE ID: 1

LOCATION: 1305 INDUSTRIAL PARK ROAD, SHENANDOAH, MOUNT JACKSON, VA  
38 ° 43 ' 42.00 " N LAT. 78 ° 39 ' 25.00 " W LONG.

ANTENNA ID:	15M.	15 meters	VERTEX	15 KPK	
	14001.0000 - 14499.0000 MHz		960KF2D	93.10 dBW	TT&C
	14000.5000 - 14499.5000 MHz		960KF2D	93.10 dBW	TT&C
	14000.0000 - 14500.0000 MHz		17M5F3F	79.30 dBW	
	14000.0000 - 14500.0000 MHz		36M0F3F	70.80 dBW	
	14000.0000 - 14500.0000 MHz		49K0G1D	45.70 dBW	
	14000.0000 - 14500.0000 MHz		49K0G1E	45.70 dBW	
	14000.0000 - 14500.0000 MHz		49K0G1F	45.70 dBW	
	14000.0000 - 14500.0000 MHz		1M80G1D	61.30 dBW	
	14000.0000 - 14500.0000 MHz		1M80G1E	61.30 dBW	
	14000.0000 - 14500.0000 MHz		1M80G1F	61.30 dBW	
	14000.0000 - 14500.0000 MHz		7M04G1D	67.30 dBW	
	14000.0000 - 14500.0000 MHz		7M04G1E	67.30 dBW	
	14000.0000 - 14500.0000 MHz		7M03G1F	67.30 dBW	
	14000.0000 - 14500.0000 MHz		100HN0N	64.50 dBW	
	14000.0000 - 14500.0000 MHz		2M70G1C	78.80 dBW	
	14000.0000 - 14500.0000 MHz		2M70G1D	78.80 dBW	
	14000.0000 - 14500.0000 MHz		2M70G1E	78.80 dBW	
	14000.0000 - 14500.0000 MHz		54M0G1C	91.80 dBW	
	14000.0000 - 14500.0000 MHz		54M0G1D	91.80 dBW	
	14000.0000 - 14500.0000 MHz		54M0G1E	91.80 dBW	



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14000.0000 - 14500.0000 MHz	41M1G1C	90.60 dBW	
14000.0000 - 14500.0000 MHz	41M1G1D	90.60 dBW	
14000.0000 - 14500.0000 MHz	41M1G1E	90.60 dBW	
14000.0000 - 14500.0000 MHz	41M1G1F	90.60 dBW	
14000.0000 - 14500.0000 MHz	36M0G7W	86.10 dBW	DIGITAL, VIDEO, DATA AND VOICE
14000.0000 - 14500.0000 MHz	36M0G7W	73.40 dBW	DIGITAL, VIDEO, DATA AND VOICE
13810.0000 - 14000.0000 MHz	54M0G7W	85.00 dBW	DIGITAL, VIDEO, DATA AND VOICE
11705.5000 - 12199.0000 MHz	850KF2D		TT&C
11700.0000 - 12200.0000 MHz			
11700.0000 - 12200.0000 MHz	500KG7W		540 Kbps, 66 FEC, QPSK
11451.0000 - 11451.0000 MHz	850KF2D		ORION
11450.5000 - 11450.5000 MHz	850KF2D		ORION
11450.0000 - 11950.0000 MHz			INTELSAT
10950.0000 - 11700.0000 MHz	54M0G7W		(WTO-COVERED SERVICES ONLY)
10950.0000 - 11200.0000 MHz			INTELSAT
14000.0000 - 14500.0000 MHz	54M0G7W	84.70 dBW	DATA (QPSK, 8PSK, 16APSK)
14000.0000 - 14500.0000 MHz	500KG7W	64.40 dBW	DATA (QPSK, 8PSK, 16APSK)
13811.0000 - 14000.0000 MHz	54M0G7W	84.70 dBW	DATA (QPSK, 8PSK, 16APSK)
13780.0000 - 14000.0000 MHz	600KG7W	68.10 dBW	DATA (QPSK, 8PSK, 16APSK)
13770.0000 - 13780.0000 MHz	4M00G7W	69.20 dBW	DATA (QPSK, 8PSK, 16APSK)
13750.0000 - 13811.0000 MHz	54M0G7W	79.90 dBW	DATA (QPSK, 8PSK, 16APSK)
13750.0000 - 13770.0000 MHz	600KG7W	68.10 dBW	DATA (QPSK, 8PSK, 16APSK)
11700.0000 - 12200.0000 MHz	54M0G7W		DATA (QPSK, 8PSK, 16APSK)
11700.0000 - 12200.0000 MHz	500KG7W		DATA (QPSK, 8PSK, 16APSK)
10950.0000 - 11200.0000 MHz	54M0G7W		DATA (QPSK, 8PSK, 16APSK)
10950.0000 - 11200.0000 MHz	500KG7W		DATA (QPSK, 8PSK, 16APSK)

ANTENNA ID:	LMA4T11N	9 meters	VERTEX	9 KPK	
	14498.0000 - 14500.0000 MHz		850KF2D	69.70 dBW	
	14000.0000 - 14500.0000 MHz		17M5F3F	79.30 dBW	
	14000.0000 - 14500.0000 MHz		36M0F3F	70.80 dBW	
	14000.0000 - 14500.0000 MHz		49K0G1D	45.70 dBW	
	14000.0000 - 14500.0000 MHz		49K0G1E	45.70 dBW	
	14000.0000 - 14500.0000 MHz		49K0G1F	45.70 dBW	
	14000.0000 - 14500.0000 MHz		1M80G1D	61.30 dBW	
	14000.0000 - 14500.0000 MHz		1M80G1E	61.30 dBW	
	14000.0000 - 14500.0000 MHz		1M80G1F	61.30 dBW	
	14000.0000 - 14500.0000 MHz		7M04G1D	67.30 dBW	
	14000.0000 - 14500.0000 MHz		7M04G1E	67.30 dBW	
	14000.0000 - 14500.0000 MHz		7M04G1F	67.30 dBW	
	14000.0000 - 14500.0000 MHz		41M1G1D	86.50 dBW	
	14000.0000 - 14500.0000 MHz		41M1G1E	86.50 dBW	
	14000.0000 - 14500.0000 MHz		41M1G1F	86.50 dBW	
	14000.0000 - 14500.0000 MHz		100HN0N	85.50 dBW	
	14000.0000 - 14500.0000 MHz		2M70G1C	74.70 dBW	
	14000.0000 - 14500.0000 MHz		2M70G1D	74.70 dBW	
	14000.0000 - 14500.0000 MHz		2M70G1E	74.70 dBW	
	14000.0000 - 14500.0000 MHz		41M1G1C	86.50 dBW	
	14000.0000 - 14500.0000 MHz		1M76G7W	69.00 dBW	1560 Kbps, .533 FEC, QPSK
	14000.0000 - 14500.0000 MHz		3M52G7W	69.00 dBW	2560 Kbps, .533 FEC, BPSK
	14000.0000 - 14500.0000 MHz		5M77G7W	69.00 dBW	2560 Kbps, .533 FEC, BPSK
	13810.0000 - 14000.0000 MHz		1M76G7W	69.00 dBW	1560 Kbps, .533 FEC, QPSK
	13810.0000 - 14000.0000 MHz		3M52G7W	69.00 dBW	1560 Kbps, .533 FEC, QPSK

13810.0000 - 14000.0000 MHz	5M77G7W	69.00 dBW	2560 Kbps, .533 FEC, BPSK
11700.0000 - 12200.0000 MHz			
11700.0000 - 12200.0000 MHz	1M60G7W		1750 Kbps, 66 FEC, QPSK
11700.0000 - 12200.0000 MHz	400KG7W		350 Kbps, 533 FEC, QPSK
11700.0000 - 12200.0000 MHz	470KG7W		410 Kbps, 533 FEC, QPSK
11451.0000 - 11451.0000 MHz	850KF2D		ORION
11450.5000 - 11450.5000 MHz	850KF2D		ORION
11450.0000 - 11950.0000 MHz			INTELSAT
11450.0000 - 11700.0000 MHz	1M60G7W		1750 Kbps, 66 FEC, QPSK
11450.0000 - 11700.0000 MHz	400KG7W		350 Kbps, 533 FEC, QPSK
11450.0000 - 11700.0000 MHz	470KG7W		410 Kbps, 533 FEC, QPSK
11450.0000 - 11700.0000 MHz	500KG7W		540 Kbps, 66 FEC, QPSK
10950.0000 - 11200.0000 MHz			INTELSAT
10950.0000 - 11200.0000 MHz	1M60G7W		1750 Kbps, .66 FEC, QPSK
10950.0000 - 11200.0000 MHz	400KG7W		350 Kbps, 533 FEC, QPSK
10950.0000 - 11200.0000 MHz	470KG7W		410 Kbps, 533 FEC, QPSK
10950.0000 - 11200.0000 MHz	500KG7W		540 Kbps, 66 FEC, QPSK
ANTENNA ID: 1.8M.	1.8 meters	PRODELIN	1184
14000.0000 - 14500.0000 MHz	200KG7W	49.50 dBW	
14000.0000 - 14500.0000 MHz	320KG7W	49.50 dBW	
14000.0000 - 14500.0000 MHz	640KG7W	49.50 dBW	
11700.0000 - 12200.0000 MHz	200KG7W		
11700.0000 - 12200.0000 MHz	320KG7W		
11700.0000 - 12200.0000 MHz	640KG7W		
ANTENNA ID: 2.4M.	2.4 meters	PRODELIN	1246
14000.0000 - 14500.0000 MHz	1M28G7W	58.20 dBW	

14000.0000 - 14500.0000 MHz	2M56G7W	58.20 dBW	
14000.0000 - 14500.0000 MHz	800KG7W	58.20 dBW	
11700.0000 - 12200.0000 MHz	2M56G7W		
11700.0000 - 12200.0000 MHz	1M28G7W		ORION, PAS
11700.0000 - 12200.0000 MHz	800KG7W		
ANTENNA ID: 4003A ESV	1 meters	SEATEL	4003A
12500.0000 - 12750.0000 MHz	1M76G7W		1560 KBPS, .533 FEC, QPSK
12500.0000 - 12750.0000 MHz	3M52G7W		1560 KBPS, .533 FEC, BPSK
12500.0000 - 12750.0000 MHz	5M77G7W		2560 KBPS, .533 FEC, BPSK
11700.0000 - 12200.0000 MHz	1M76G7W		1560 Kbps, .533 FEC, QPSK
11700.0000 - 12200.0000 MHz	3M52G7W		1560 Kbps, .533 FEC, BPSK
11700.0000 - 12200.0000 MHz	5M77G7W		2560 Kbps, .533 FEC, BPSK
11450.0000 - 11700.0000 MHz	1M76G7W		1560 Kbps, .533 FEC, QPSK
11450.0000 - 11700.0000 MHz	3M52G7W		1560 Kbps, .533 FEC, BPSK
11450.0000 - 11700.0000 MHz	5M77G7W		2560 Kbps, .533 FEC, BPSK
10950.0000 - 11200.0000 MHz	1M76G7W		1560 Kbps, .533 FEC, QPSK
10950.0000 - 11200.0000 MHz	3M52G7W		1560 Kbps, .533 FEC, BPSK
10950.0000 - 11200.0000 MHz	5M77G7W		2560 Kbps, .533 FEC, BPSK
ANTENNA ID: 4006 ESV	1 meters	SEATEL	4006
14000.0000 - 14500.0000 MHz	400KG7W	45.50 dBW	350 Kbps, .533 FEC, QPSK
14000.0000 - 14500.0000 MHz	500KG7W	46.50 dBW	540 Kbps, .66 FEC, QPSK
14000.0000 - 14500.0000 MHz	470KG7W	46.20 dBW	410 Kbps, .533 FEC, QPSK
14000.0000 - 14500.0000 MHz	1M60G7W	50.30 dBW	1750 Kbps, .66 FEC, QPSK
12500.0000 - 12750.0000 MHz	1M76G7W		1560 KBPS, .533 FEC, QPSK
12500.0000 - 12750.0000 MHz	3M52G7W		1560 KBPS, .533 FEC, BPSK
12500.0000 - 12750.0000 MHz	5M77G7W		2560 KBPS, .533 FEC, BPSK

11700.0000 - 12200.0000 MHz	1M76G7W		1560 Kbps, .533 FEC, QPSK
11700.0000 - 12200.0000 MHz	5M77G7W		2560 Kbps, .533 FEC, BPSK
11450.0000 - 11700.0000 MHz	1M76G7W		1560 Kbps, .533 FEC, QPSK
11450.0000 - 11700.0000 MHz	3M52G7W		1560 Kbps, .533 FEC, BPSK
11450.0000 - 11700.0000 MHz	5M77G7W		2560 Kbps, .533 FEC, BPSK
10950.0000 - 11200.0000 MHz	1M76G7W		1560 Kbps, .533 FEC, QPSK
10950.0000 - 11200.0000 MHz	3M52G7W		1560 Kbps, .533 FEC, BPSK
10950.0000 - 11200.0000 MHz	5M77G7W		2560 Kbps, .533 FEC, BPSK
ANTENNA ID: 2406 ESV	0.6 meters	SEATEL	2406
14200.0000 - 14470.0000 MHz	943KG7W	38.10 dBW	1037 Kbps, QPSK, 33/50 FEC
14000.0000 - 14500.0000 MHz	943KG7W	38.10 dBW	1037 Kbps, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: 6006 ESV	1.5 meters	SEATEL	6006
14200.0000 - 14470.0000 MHz	943KG7W	52.00 dBW	1037 Kbps, QPSK, 33/50 FEC
14000.0000 - 14500.0000 MHz	943KG7W	52.00 dBW	1037 Kbps, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: 4009 ESV	1 meters	SEATEL	4009
14200.0000 - 14470.0000 MHz	400KG7W	45.50 dBW	350KBPS, .533 FEC, QPSK
14200.0000 - 14470.0000 MHz	500KG7W	46.50 dBW	540 KBPS, .66 FEC, QPSK
14200.0000 - 14470.0000 MHz	1M60G7W	50.30 dBW	1750 KBPS, .66 FEC, QPSK

14200.0000 - 14470.0000 MHz	470KG7W	46.20 dBW	410 KBPS, .533 FEC, QPSK
12500.0000 - 12750.0000 MHz	1M76G7W		NULL
12500.0000 - 12750.0000 MHz	3M52G7W		NULL
12500.0000 - 12750.0000 MHz	5M77G7W		NULL
11700.0000 - 12200.0000 MHz	1M76G7W		NULL
11700.0000 - 12200.0000 MHz	3M52G7W		NULL
11700.0000 - 12200.0000 MHz	5M77G7W		NULL
11450.0000 - 11700.0000 MHz	1M76G7W		NULL
11450.0000 - 11700.0000 MHz	3M52G7W		NULL
11450.0000 - 11700.0000 MHz	5M77G7W		NULL
10950.0000 - 11200.0000 MHz	1M76G7W		NULL
10950.0000 - 11200.0000 MHz	3M52G7W		NULL
10950.0000 - 11200.0000 MHz	5M77G7W		NULL
ANTENNA ID: 6009 ESV	1.5 meters	SEATEL	6009
14200.0000 - 14470.0000 MHz	943KG7W	52.00 dBW	1037 KBPS, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: USAT 24	0.6 meters	SEATEL	USAT 24
14200.0000 - 14470.0000 MHz	943KG7W	38.10 dBW	1037 KBPS, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: 9797 ESV	2.4 meters	SEATEL	9797

14200.0000 - 14470.0000 MHz	943KG7W	57.50 dBW	1037 KBPS, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
ANTENNA ID: SE125ESV	1.25 meters	AZIMUTH	SE125
14200.0000 - 14470.0000 MHz	907KG7W	46.10 dBW	1037 KBPS, QPSK, 33/50 FEC
11700.0000 - 12200.0000 MHz	907KG7W		
11450.0000 - 11700.0000 MHz	907KG7W		
10950.0000 - 11200.0000 MHz	907KG7W		
ANTENNA ID: V60GESV	0.6 meters	INTELLIAN	V60G
14200.0000 - 14470.0000 MHz	717KG7W	38.30 dBW	QPSK, BPSK
11700.0000 - 12200.0000 MHz	717KG7W		QPSK, BPSK
11450.0000 - 11700.0000 MHz	717KG7W		QPSK, BPSK
10950.0000 - 11200.0000 MHz	717KG7W		QPSK, BPSK
ANTENNA ID: V110ESV	1.05 meters	INTELLIAN	V110
14200.0000 - 14470.0000 MHz	970KG7W	49.30 dBW	QPSK, BPSK
11700.0000 - 12200.0000 MHz	970KG7W		QPSK, BPSK
11450.0000 - 11700.0000 MHz	970KG7W		QPSK, BPSK
10950.0000 - 11200.0000 MHz	970KG7W		QPSK, BPSK
ANTENNA ID: V100GX4W	1 meters	INTELLIAN	V100GX
14000.0000 - 14500.0000 MHz	943KG7W	47.30 dBW	1037 KBPS, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: V100GX8W	1 meters	INTELLIAN	V100GX

14000.0000 - 14500.0000 MHz	943KG7W	50.30 dBW	1037 KBPS, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: 4012GX4W	1.06 meters	SEATEL	4012 GX
14000.0000 - 14500.0000 MHz	943KG7W	47.30 dBW	1037 KBPS, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: 4012GX8W	1.06 meters	SEATEL	4012 GX
14000.0000 - 14500.0000 MHz	943KG7W	50.30 dBW	1037 KBPS, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: 6012 ESV	1.5 meters	SEATEL	6012
14200.0000 - 14470.0000 MHz	943KG7W	52.00 dBW	1037 KBPS, QPSK, 33/50 FEC
12500.0000 - 12750.0000 MHz	943KG7W		NULL
11700.0000 - 12200.0000 MHz	943KG7W		NULL
11450.0000 - 11700.0000 MHz	943KG7W		NULL
10950.0000 - 11200.0000 MHz	943KG7W		NULL
ANTENNA ID: S900	1.03 meters	THRANE& THRANE	SAILOR 900
14200.0000 - 14470.0000 MHz	910KG7W	48.93 dBW	QPSK
12500.0000 - 12750.0000 MHz	910KG7W		NULL



11700.0000 - 12200.0000 MHz	910KG7W	NULL
11450.0000 - 11700.0000 MHz	910KG7W	NULL

**Points of Communication:**

- 1 - ESTRELA DO SUL 2 - (63 W.L.)
- 1 - MSAT-1 - (107.5)
- 1 - MSAT-1 - (107.5)
- 1 - PERMITTED LIST - ()
- 1 - TELSTAR 11N (S2357) - (37.5 W.L.)
- 1 - Telstar 12 (S2462) - (15 W. L.)

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**SES-MOD-20160415-00354** E E5184 Learfield Communications Inc.

Application for Modification

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

Learfield Communications Inc. requests modification of its fixed earth station in Jefferson City, MO, to replace its 9-meter Harris model 5251 antenna, with a 10-meter Scientific Atlanta, model 8015 antenna, and to update emission designators. This earth station will continue to operate with Permitted List satellites in the 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth).

SITE ID: 1  
 LOCATION: 505 HOBBS ROAD, COLE, JEFFERSON CITY, MO  
 38 ° 34 ' 52.10 " N LAT. 92 ° 15 ' 16.70 " W LONG.

ANTENNA ID:	1	10 meters	SCIENTIFIC ATLANTA	8015
	5925.0000 - 6425.0000 MHz	1M50G7W	63.90 dBW	1.5 MHZ TRANSMIT DIGITAL RADIO
	5925.0000 - 6425.0000 MHz	2M45G7W	63.90 dBW	2.45 MHZ TRANSMIT DIGITAL RADIO
	3700.0000 - 4200.0000 MHz	1M50G7W		1.5 MHZ RECEIVE DIGITAL RADIO
	3700.0000 - 4200.0000 MHz	2M45G7W		2.45 MHZ RECEIVE DIGITAL RADIO

**Points of Communication:**

- 1 - PERMITTED LIST - ()

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**SES-MOD-20160416-00353** E E120202 IP Access International

Application for Modification

**Class of Station:** VSAT Network

**Nature of Service:** Fixed Satellite Service

IP Access International requests modification of its VSAT Network authorization to: (1) remove its 9.3m hub antenna, Antenna ID HUB9.3, in Napa, CA; (2) add a 6.2 meter hub antenna, Antenna ID PET-KU-5, in Petaluma, CA, and (3) add a 9.2m antenna, Antenna ID Hubbackup, in Woodbine, MD.

SITE ID: REMOTE 0.96M.  
 LOCATION: (1500 UNITS) (0.96M. REMOTE), VARIOUS  
 0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID:	REMOTE0.96	0.96 meters	AVL/TRACSTAR	MVS960
	14000.0000 - 14500.0000 MHz	600KG7W	45.00 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO
	14000.0000 - 14500.0000 MHz	2M50G7W	49.00 dBW	8 PSK DIGITAL DATA, VOICE AND VIDEO
	11700.0000 - 12200.0000 MHz	4M00G7W	0.00 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
	11700.0000 - 12200.0000 MHz	12M0G7W	0.00 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
	14000.0000 - 14500.0000 MHz	1M70G7W	49.00 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO
	14000.0000 - 14500.0000 MHz	1M70G7W	49.00 dBW	8 PSK DIGITAL DATA, VOICE AND VIDEO
	14000.0000 - 14500.0000 MHz	1M00G7W	47.00 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO

SITE ID: REMOTE 1.8M.  
 LOCATION: (500 UNITS) (1.8M. REMOTE), CONUS, AK, HI, PR VI  
 0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID:	REMOTE1.8	1.8 meters	PRODELIN	1184
	14000.0000 - 14500.0000 MHz	600KG7W	50.30 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO
	14000.0000 - 14500.0000 MHz	2M50G7W	54.30 dBW	8 PSK DIGITAL DATA, VOICE AND VIDEO
	11700.0000 - 12200.0000 MHz	4M00G7W	0.00 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
	11700.0000 - 12200.0000 MHz	12M0G7W	0.00 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
	14000.0000 - 14500.0000 MHz	1M70G7W	54.30 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO
	14000.0000 - 14500.0000 MHz	1M70G7W	54.30 dBW	8 PSK DIGITAL DATA, VOICE AND VIDEO

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14000.0000 - 14500.0000 MHz	1M00G7W	52.30 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO
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SITE ID: HUB1/1310PET  
LOCATION: 1310 REDWOOD WAY (6.2M. HUB1), SONOMA, PETALUMA, CA  
38 ° 16 ' 27.20 " N LAT. 122 ° 39 ' 48.50 " W LONG.

ANTENNA ID: PET-KU-5	6.2 meters	HUAXIN	6.2M-RXTX-MOTORIZED
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14000.0000 - 14500.0000 MHz	4M00G7W	62.00 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
11700.0000 - 12200.0000 MHz	600KG7W	0.00 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO
11700.0000 - 12200.0000 MHz	2M50G7W	0.00 dBW	8 PSK DIGITAL DATA, VOICE AND VIDEO
14000.0000 - 14500.0000 MHz	12M0G7W	66.80 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
11700.0000 - 12200.0000 MHz	1M70G7W		QPSK DIGITAL DATA, VOICE AND VIDEO
11700.0000 - 12200.0000 MHz	1M70G7W		8 PSK DIGITAL DATA, VOICE AND VIDEO
11700.0000 - 12200.0000 MHz	1M00G7W		QPSK DIGITAL DATA, VOICE AND VIDEO

SITE ID: REMOTE 1.2M.  
LOCATION: (1000 UNITS) (1.2M. REMOTE), CONUS, AK, HI, PR VI  
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: REMOTE1.2	1.2 meters	PRODELIN	1123
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14000.0000 - 14500.0000 MHz	600KG7W	47.00 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO
14000.0000 - 14500.0000 MHz	2M50G7W	51.00 dBW	8 PSK DIGITAL DATA, VOICE AND VIDEO
11700.0000 - 12200.0000 MHz	4M00G7W	0.00 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
11700.0000 - 12200.0000 MHz	12M0G7W	0.00 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
14000.0000 - 14500.0000 MHz	1M70G7W	51.00 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO
14000.0000 - 14500.0000 MHz	1M70G7W	51.00 dBW	8 PSK DIGITAL DATA, VOICE AND VIDEO
14000.0000 - 14500.0000 MHz	1M00G7W	49.00 dBW	QPSK DIGITAL DATA, VOICE AND VIDEO

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SITE ID: HUBback#8722;up  
LOCATION: 2823 GRIMVILLE RD. (9.2M. BACK-UP HUB2), CARROLL, WOODBINE, MD  
39 ° 22 ' 33.00 " N LAT. 77 ° 4 ' 54.00 " W LONG.

ANTENNA ID:	Hubbackup	9.2 meters	STI	9200K
	14000.0000 - 14500.0000 MHz	4M00G7W	62.00 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
	14000.0000 - 14500.0000 MHz	12M0G7W	66.80 dBW	16APSK DIGITAL DATA, VOICE, VIDEO
	11700.0000 - 12200.0000 MHz	600KG7W		QPSK DIGITAL DATA, VOICE AND VIDEO
	11700.0000 - 12200.0000 MHz	2M50G7W		8 PSK DIGITAL DATA, VOICE AND VIDEO
	11700.0000 - 12200.0000 MHz	1M70G7W		QPSK DIGITAL DATA, VOICE AND VIDEO
	11700.0000 - 12200.0000 MHz	1M70G7W		8 PSK DIGITAL DATA, VOICE AND VIDEO
	11700.0000 - 12200.0000 MHz	1M00G7W		QPSK DIGITAL DATA, VOICE AND VIDEO

**Points of Communication:**

HUB1/1310PET - PERMITTED LIST - ()

HUBback#8722;up - PERMITTED LIST - ()

REMOTE 0.96M. - PERMITTED LIST - ()

REMOTE 1.2M. - PERMITTED LIST - ()

REMOTE 1.8M. - PERMITTED LIST - ()

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**SES-STA-20160408-00336** E KL92 Intelsat License LLC

Special Temporary Authority

**Class of Station:**

Intelsat License LLC requests special temporary authority for 180 days, to use its fixed earth station in Castle Rock, CO, to: (1) provide launch and early orbit phase ("LEOP") services for the Intelsat 31 satellite; (2) provide telemetry, tracking, and command ("TT&C") operations during in-orbit testing ("IOT") at the 76.5° W.L. orbital location; and (3) provide TT&C as Intelsat 31 drifts to the 95.05° W.L. orbital location. All operations will use the following center frequencies: 13998.50 MHz and 14006.0 MHz (Earth-to-space), and 11194.25 MHz, 11195.5 MHz, 11196.25 MHz, and 11196.75 MHz (space-to-Earth).

**Points of Communication:**

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