



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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WASHINGTON D.C. 20554

News media information 202-418-0500
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Report No. SES-01854

Wednesday May 25, 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-20160404-00321 E E060445 HNS License Sub, LLC
Amendment
Grant of Authority Date Effective: 05/23/2016

Class of Station: Other

Nature of Service: Fixed Satellite Service

SITE ID: TR3.5M
LOCATION: 50,000 (3.5m) CONUS, AK, HI, PR, VI
0° 0' 0.00" N LAT. 0° 0' 0.00" W LONG.

ANTENNA ID:	TR3.5	3.5 meters	ASC SIGNAL CORP.	ES35SRT-1
	29500.0000 - 30000.0000 MHz	20M9G7W	75.40 dBW	16.348 MBPS, PSK, DIGITAL CARRIER
	29500.0000 - 30000.0000 MHz	2M61G7W	66.30 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
	29500.0000 - 30000.0000 MHz	650KG7W	60.30 dBW	512 KBPS, PSK, DIGITAL CARRIER
	29250.0000 - 29500.0000 MHz	650KG7W	60.30 dBW	512 KBPS, PSK, DIGITAL CARRIER
	29250.0000 - 29500.0000 MHz	20M9G7W	75.40 dBW	2,048 MBPS, PSK, DIGITAL CARRIER
	19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
	19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
	18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
SITE ID: TFTR1.2M			
LOCATION: 1000 (1.2M) CONUS, AK, HI, PR, VI			
ANTENNA ID: TFTR1.2	1.2 meters	AVL TECHNOLOGIES	1210K
29500.0000 - 30000.0000 MHz	100KG7W	42.70 dBW	QPSK, DATA, INROUTE, 64 KSPS
29250.0000 - 30000.0000 MHz	2M00G7W	55.90 dBW	QPSK, DATA, INROUTE, 1600 KSPS
29250.0000 - 30000.0000 MHz	2M61G7W	55.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
29250.0000 - 29500.0000 MHz	100KG7W	42.70 dBW	QPSK, DATA, INROUTE, 64 KSPS
29250.0000 - 29500.0000 MHz	2M61G7W	55.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
19700.0000 - 20200.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
19700.0000 - 20200.0000 MHz	500MG7W		QPSK, DATA, OUTROUTE, 30 MSPS
18300.0000 - 19300.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
18300.0000 - 19300.0000 MHz	2M61G7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TFTR74CM
LOCATION: 25,000 (74cm) CONUS, AK, HI, PR, VI
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: 74CM(TA)	0.74 meters	GD SATCOM	HNS1031929
29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(TB)	0.74 meters	SKYWARE GLOBAL	AN8-074R
29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(TC)	0.74 meters	GD SATCOM	AN8-074P
29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TFTR98CM
LOCATION: 10,000 (98cm) CONUS, AK, HI, PR, VI
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TFTR98(2)	0.98 meters	SKYWARE GLOBAL	AN8-098RAN-098KA
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

ANTENNA ID: TFTR98CM	0.98 meters	GD SATCOM	AN8-098P
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: TFTR98(3)	0.98 meters	AVL TECHNOLOGIES	1010K
29500.0000 - 30000.0000 MHz	500MG7W	41.20 dBW	QPSK, DATA, INROUTE, 64 KSPS
29500.0000 - 30000.0000 MHz	1M48G7W	52.90 dBW	QPSK, DATA, INROUTE, 1100 KSPS
29500.0000 - 30000.0000 MHz	2M61G7W	52.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
29250.0000 - 29500.0000 MHz	2M61G7W	52.90 dBW	QPSK, DATA, INROUTE, 204K KSPS
29250.0000 - 29500.0000 MHz	500MG7W	41.20 dBW	QPSK, DATA, INROUTE, 64 KSPS
19700.0000 - 20200.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
19700.0000 - 20200.0000 MHz	500MG7W		QPSK, DATA, OUTROUTE, 30 MSPS
18300.0000 - 19300.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
18300.0000 - 19300.0000 MHz	500MG7W		QPSK, DATA, OUTROUTE, 30 MSPS

SITE ID: TR98CM
LOCATION: 250,000 (98cm) CONUS, AK, HI, PR, VI
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TR98CM(1)	0.98 meters	GD SATCOM	AN8-098P
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: TR98CM(2)	0.98 meters	SKYWARE GLOBAL	AN8-098R
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER

29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TR74CM
LOCATION: 5,000,000 (74cm) CONUS, AK, HI, PR, VI
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: 74CM(FA)	0.74 meters	GD SATCOM	AN8-074P
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FC)	0.74 meters	SKYWARE GLOBAL	AN8-074R
29250.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PASK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FB)	0.74 meters	GD SATCOM	HNS1031929
29250.0000 - 30000.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FD)	0.74 meters	SKYWARE GLOBAL	AN9-074
28350.0000 - 2860.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W	0.00 dBW	500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 MHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ, PSK, PSK, DIGITAL CARRIER
29250.0000 - 30000.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER
SITE ID: TR1.8M			
LOCATION: 50,000 (1.8m) CONUS, AK, HI, PR, VI			
0 ° 0 ' 0.00 " N LAT.		0 ° 0 ' 0.00 " W LONG.	
ANTENNA ID: TR1.8	1.8 meters	GD SATCOM	3180-131
29500.0000 - 30000.0000 MHz	20M9G7W	69.80 dBW	16.348 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	60.70 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	650KG7W	54.70 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	54.70 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	20M9G7W	69.80 dBW	16.348 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
SITE ID: TR1.2M			
LOCATION: 100,000 (1.2m) CONUS, AK, HI, PR, VI			
	0 ° 0 ' 0.00 " N LAT.		0 ° 0 ' 0.00 " W LONG.
ANTENNA ID: TR1.2	1.2 meters	GD SATCOM	3120-131
29500.0000 - 30000.0000 MHz	2M61G7W	57.20 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	650KG7W	51.20 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	51.20 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	57.20 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TFTR98CM
LOCATION: 10,000 (1.0m) CONUS, AK, HI, PR, VI

SITE ID: TR69CM
LOCATION: 1,000,000 (69CM)

ANTENNA ID: 69CM	0.69 meters	SKYWARE GLOBAL	HNS-AN8-069R
29250.0000 - 29500.0000 MHz	100KG7W	38.50 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M00G7W	46.80 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	670KG7W	46.80 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		M-ARY PHASE SHIFT KEYING DIGITAL CARRIER

18300.0000 - 19300.0000 MHz 100KG7W

M-ARY PHASE SHIFT KEYING
DIGITAL CARRIER

18300.0000 - 19300.0000 MHz 500MG7W

M-ARY PHASE SHIFT KEYING
DIGITAL CARRIER

Points of Communication:

TFTR1.2M - AMC-15 - (105 W.L.)

TFTR1.2M - AMC-16 - (85 W.L.)

TFTR1.2M - ECHOSTAR -9 - (121 W.L.)

TFTR1.2M - EchostarXVII(S2753) - (107.1 W.L.)

TFTR1.2M - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR1.2M - SPACEWAY 3 - (94.95 W.L.)

TFTR74CM - AMC-15 - (105 W.L.)

TFTR74CM - AMC-16 - (85 W.L.)

TFTR74CM - DIRECTV 10 - (102.8 W.L.)

TFTR74CM - DIRECTV 11 - (99.2 W.L.)

TFTR74CM - ECHOSTAR -9 - (121 W.L.)

TFTR74CM - EchostarXVII(S2753) - (107.1 W.L.)

TFTR74CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR74CM - SPACEWAY 1 - (103 W.L.)

TFTR74CM - SPACEWAY 2 - (99 W.L.)

TFTR74CM - SPACEWAY 3 - (94.95 W.L.)

TFTR98CM - AMC-15 - (105 W.L.)

TFTR98CM - AMC-16 - (85 W.L.)

TFTR98CM - ECHOSTAR -9 - (121 W.L.)

TFTR98CM - EchostarXVII(S2753) - (107.1 W.L.)

TFTR98CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR98CM - SPACEWAY 1 - (103 W.L.)

TFTR98CM - SPACEWAY 2 - (99 W.L.)

TFTR98CM - SPACEWAY 3 - (94.95 W.L.)

TR1.2M - AMC-15 - (105 W.L.)

TR1.2M - AMC-16 - (85 W.L.)

TR1.2M - ECHOSTAR -9 - (121 W.L.)

TR1.2M - EchostarXVII(S2753) - (107.1 W.L.)

TR1.2M - JUPITER 97 W(S2834) - (97.1 W. L.)

TR1.2M - SPACEWAY 1 - (103 W.L.)

TR1.2M - SPACEWAY 2 - (99 W.L.)

TR1.2M - SPACEWAY 3 - (94.95 W.L.)

TR1.8M - AMC-15 - (105 W.L.)

TR1.8M - AMC-16 - (85 W.L.)

TR1.8M - ECHOSTAR -9 - (121 W.L.)

TR1.8M - EchostarXVII(S2753) - (107.1 W.L.)

TR1.8M - JUPITER 97 W(S2834) - (97.1 W. L.)

TR1.8M - SPACEWAY 1 - (103 W.L.)

TR1.8M - SPACEWAY 2 - (99 W.L.)

TR1.8M - SPACEWAY 3 - (94.95 W.L.)

TR3.5M - AMC-15 - (105 W.L.)

TR3.5M - AMC-16 - (85 W.L.)

TR3.5M - ECHOSTAR -9 - (121 W.L.)

TR3.5M - EchostarXVII(S2753) - (107.1 W.L.)

TR3.5M - JUPITER 97 W(S2834) - (97.1 W. L.)

TR3.5M - SPACEWAY 1 - (103 W.L.)

TR3.5M - SPACEWAY 2 - (99 W.L.)

TR3.5M - SPACEWAY 3 - (94.95 W.L.)

TR69CM - AMC-15 - (105 W.L.)

TR69CM - AMC-16 - (85 W.L.)

TR69CM - ECHOSTAR -9 - (121 W.L.)

TR69CM - EchostarXVII(S2753) - (107.1 W.L.)

TR69CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TR69CM - SPACEWAY 1 - (103 W.L.)

TR69CM - SPACEWAY 2 - (99 W.L.)

TR69CM - SPACEWAY 3 - (94.95 W.L.)
TR74CM - AMC-15 - (105 W.L.)
TR74CM - AMC-16 - (85 W.L.)
TR74CM - DIRECTV 10 - (102.8 W.L.)
TR74CM - DIRECTV 11 - (99.2 W.L.)
TR74CM - EHOSTAR -9 - (121 W.L.)
TR74CM - EchostarXVII(S2753) - (107.1 W.L.)
TR74CM - JUPITER 97 W(S2834) - (97.1 W. L.)
TR74CM - SPACEWAY 1 - (103 W.L.)
TR74CM - SPACEWAY 2 - (99 W.L.)
TR74CM - SPACEWAY 3 - (94.95 W.L.)
TR98CM - AMC-15 - (105 W.L.)
TR98CM - AMC-16 - (85 W.L.)
TR98CM - EHOSTAR -9 - (121 W.L.)
TR98CM - EchostarXVII(S2753) - (107.1 W.L.)
TR98CM - JUPITER 97 W(S2834) - (97.1 W. L.)
TR98CM - SPACEWAY 1 - (103 W.L.)
TR98CM - SPACEWAY 2 - (99 W.L.)
TR98CM - SPACEWAY 3 - (94.95 W.L.)

SES-ASG-20160217-00138 E E050265 WSBT, Inc.

Application for Consent to Assignment

Grant of Authority

Date Effective: 05/24/2016

Current Licensee: WSBT, Inc.

FROM: WSBT, INC.

TO: WLUC Licensee, LLC

No. of Station(s) listed: 3

SES-ASG-20160217-00153 E E040060 Northern Lights Media, Inc.

Application for Consent to Assignment

Grant of Authority

Date Effective: 05/24/2016

Current Licensee: Northern Lights Media, Inc.

FROM: NORTHERN LIGHTS MEDIA, INC.

TO: Gray Television Licensee, LLC

No. of Station(s) listed: 2

SES-ASG-20160511-00417 E E880118 Charter Communications, Inc.
Application for Consent to Assignment
Consummated Date Effective: 05/11/2016

Current Licensee: CHARTER COMMUNICATIONS VI, LLC
FROM: CHARTER COMMUNICATIONS VI, LLC
TO: Interlink Communications Partners, LLC

No. of Station(s) listed: 2

SES-ASG-20160511-00418 E E7061 Charter Communications, Inc.
Application for Consent to Assignment
Consummated Date Effective: 05/11/2016

Current Licensee: RENAISSANCE MEDIA LLC
FROM: RENAISSANCE MEDIA, LLC
TO: Interlink Communications Partners, LLC

No. of Station(s) listed: 1

SES-ASG-20160511-00419 E E010328 Charter Communications, Inc.
Application for Consent to Assignment
Consummated Date Effective: 05/11/2016

Current Licensee: CHARTER COMMUNICATIONS, LLC
FROM: CHARTER COMMUNICATIONS, LLC
TO: Interlink Communications Partners, LLC

No. of Station(s) listed: 3

SES-ASG-20160512-00420 E E6784 Plattsburgh Cablevision, LLC
Application for Consent to Assignment
Consummated Date Effective: 05/12/2016

Current Licensee: PLATTSBURGH CABLEVISION INC.
FROM: PLATTSBURG CABLEVISION, INC.
TO: Plattsburgh Cablevision, LLC

No. of Station(s) listed: 1

SES-ASG-20160512-00421 E E8172 Robin Media Group, LLC
Application for Consent to Assignment
Consummated Date Effective: 05/12/2016

Current Licensee: ROBIN MEDIA GROUP, INC.
FROM: ROBIN MEDIA GROUP, INC.
TO: Robin Media Group, LLC

No. of Station(s) listed: 4

SES-ASG-20160512-00423 E WG96 Charter Video Electronics, LLC
Application for Consent to Assignment
Consummated Date Effective: 05/12/2016

Current Licensee: CHARTER VIDEO ELECTRONICS, INC.
FROM: CHARTER VIDEO ELECTRONICS, INC.
TO: Charter Video Electronics, LLC

No. of Station(s) listed: 1

SES-ASG-20160513-00422 E E020100 Marcus Cable of Alabama, L.L.C.
Application for Consent to Assignment
Consummated Date Effective: 05/13/2016

Current Licensee: Marcus Cable of Alabama, LLC
FROM: MARCUS CABLE OF ALABAMA, LLC
TO: Marcus Cable of Alabama, L.L.C.

No. of Station(s) listed: 3

SES-ASG-20160513-00424 E WH33 HPI Acquisition Co. LLC
Application for Consent to Assignment
Consummated Date Effective: 05/13/2016

Current Licensee: HPI ACQUISITIONS CO., LLC
FROM: HPI ACQUISITIONS CO, LLC
TO: HPI Acquisition Co. LLC

No. of Station(s) listed: 1

SES-LIC-20160401-00307 E E160052 UltiSat, Inc.
Application for Authority 05/24/2016 - 05/24/2031
Grant of Authority Date Effective: 05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Shemya Island
LOCATION: Eareckson Air Station, Aleutians West, Shemya Island, AK
52 ° 43 ' 26.40 " N LAT. 174 ° 7 ' 8.40 " E LONG.

ANTENNA ID:	2.4m	2.4 meters	Prodelin	1251	
	3700.0000 - 4200.0000 MHz		87K0G7D	Digital Data Carrier	
	3700.0000 - 4200.0000 MHz		100KG7D	Digital Data Carrier	
	5925.0000 - 6425.0000 MHz		87K0G7D	45.37 dBW	Digital Data Carrier
	5925.0000 - 6425.0000 MHz		100KG7D	45.97 dBW	Digital Data Carrier

Points of Communication:

Shemya Island - NSS 9 (S2756) - (177 W.L.)

SES-LIC-20160401-00308 E E160053 UltiSat, Inc.
Application for Authority 05/24/2016 - 05/24/2031
Grant of Authority Date Effective: 05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Sand Point
LOCATION: Qagun Tayagungin, Aleutians East, Sand Point, AK
55 ° 20 ' 12.00 " N LAT. 160 ° 26 ' 51.00 " W LONG.

ANTENNA ID:	2.4m	2.4 meters	Prodelin	1251
	3700.0000 - 4200.0000 MHz		87K0G7D	Digital Data Carrier
	3700.0000 - 4200.0000 MHz		100KG7D	Digital Data Carrier
	5925.0000 - 6425.0000 MHz		87K0G7D	45.37 dBW
	5925.0000 - 6425.0000 MHz		100KG7D	45.97 dBW

Points of Communication:

Sand Point - NSS 9 (S2756) - (177 W.L.)

SES-LIC-20160401-00309	E	E160054	UltiSat, Inc.	
Application for Authority				05/24/2016 - 05/24/2031
Grant of Authority				Date Effective: 05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Guam
 LOCATION: Mariana Islands, Guam, Yigo
 13 ° 35 ' 16.00 " N LAT. 144 ° 52 ' 7.00 " E LONG.

ANTENNA ID:	2.4m	2.4 meters	Prodelin	1251
	3700.0000 - 4200.0000 MHz		87K0G7D	Digital Data Carrier
	3700.0000 - 4200.0000 MHz		100KG7D	Digital Data Carrier
	5925.0000 - 6425.0000 MHz		87K0G7D	45.37 dBW
	5925.0000 - 6425.0000 MHz		100KG7D	45.97 dBW

Points of Communication:

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

SES-LIC-20160401-00310	E	E160055	UltiSat, Inc.	
Application for Authority				05/24/2016 - 05/24/2031
Grant of Authority				Date Effective: 05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Midway Island
 LOCATION: Outlying Islands, Pacific, Midway Island
 28 ° 12 ' 7.60 " N LAT. 177 ° 22 ' 49.60 " W LONG.

ANTENNA ID:	2.4m	2.4 meters	Prodelin	1251
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3700.0000 - 4200.0000 MHz	87K0G7D		Digital Data Carrier
3700.0000 - 4200.0000 MHz	100KG7D		Digital Data Carrier
5925.0000 - 6425.0000 MHz	87K0G7D	45.37 dBW	Digital Data Carrier
5925.0000 - 6425.0000 MHz	100KG7D	45.97 dBW	Digital Data Carrier

Points of Communication:

Midway Island - NSS 9 (S2756) - (177 W.L.)

SES-LIC-20160401-00311 E E160056 UltiSat, Inc.
 Application for Authority 05/24/2016 - 05/24/2031
 Grant of Authority Date Effective: 05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Wake Island
 LOCATION: Wake Atoll, Pacific Ocean Region, Wake Island
 19 ° 16 ' 56.30 " N LAT. 166 ° 38 ' 49.30 " E LONG.

ANTENNA ID: 2.4m 2.4 meters Prodelin 1251

3700.0000 - 4200.0000 MHz	87K0G7D		Digital Data Carrier
3700.0000 - 4200.0000 MHz	100KG7D		Digital Data Carrier
5925.0000 - 6425.0000 MHz	87K0G7D	45.37 dBW	Digital Data Carrier
5925.0000 - 6425.0000 MHz	100KG7D	45.97 dBW	Digital Data Carrier

Points of Communication:

Wake Island - NSS 9 (S2756) - (177 W.L.)

SES-LIC-20160401-00312 E E160057 UltiSat, Inc.
 Application for Authority 05/24/2016 - 05/24/2031
 Grant of Authority Date Effective: 05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
 LOCATION: Kailua Kona, Hawaii, Central Puna, HI
 19 ° 36 ' 0.00 " N LAT. 155 ° 54 ' 0.00 " W LONG.

ANTENNA ID: 2.4M. 2.4 meters Prodelin 1251

3700.0000 - 4200.0000 MHz	100KG7D		Digital Data Carrier
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3700.0000 - 4200.0000 MHz	87K0G7D		Digital Data Carrier
5925.0000 - 6425.0000 MHz	100KG7D	45.97 dBW	Digital Data Carrier
5925.0000 - 6425.0000 MHz	87K0G7D	45.37 dBW	Digital Data Carrier

Points of Communication:

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

SES-LIC-20160401-00313	E	E160058	UltiSat, Inc.	05/24/2016 - 05/24/2031
Application for Authority				Date Effective:
Grant of Authority				05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Eilson
LOCATION: Eielson AFB, North Star Borough, Eilson, AK
64 ° 38 ' 8.30 " N LAT. 147 ° 2 ' 47.40 " W LONG.

ANTENNA ID: 2.4m 2.4 meters Prodelin 1251

3700.0000 - 4200.0000 MHz	87K0G7D		Digital Data Carrier
3700.0000 - 4200.0000 MHz	100KG7D		Digital Data Carrier
6061.0000 - 6067.0000 MHz	87K0G7D	45.37 dBW	Digital Data Carrier
6182.0000 - 6230.0000 MHz	87K0G7D	45.37 dBW	Digital Data Carrier
6283.0000 - 6289.0000 MHz	87K0G7D	45.37 dBW	Digital Data Carrier
6341.0000 - 6359.0000 MHz	87K0G7D	45.37 dBW	Digital Data Carrier
6061.0000 - 6067.0000 MHz	100KG7D	45.97 dBW	Digital Data Carrier
6182.0000 - 6230.0000 MHz	100KG7D	45.97 dBW	Digital Data Carrier
6283.0000 - 6289.0000 MHz	100KG7D	45.97 dBW	Digital Data Carrier
6341.0000 - 6359.0000 MHz	100KG7D	45.97 dBW	Digital Data Carrier

Points of Communication:

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

SES-LIC-20160401-00314	E	E160059	UltiSat, Inc.	05/24/2016 - 05/24/2031
Application for Authority				Date Effective:
Grant of Authority				05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: Marginal La Ley, Cayey, San Juan, PR
18 ° 6 ' 37.00 " N LAT.

66 ° 9 ' 8.00 " 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 - 6047.0000 MHz		100KG7D	45.97 dBW	Digital Data Carrier
6080.0000 - 6171.0000 MHz		100KG7D	45.97 dBW	Digital Data Carrier
6243.0000 - 6270.0000 MHz		100KG7D	45.97 dBW	Digital Data Carrier
6303.0000 - 6319.0000 MHz		100KG7D	45.97 dBW	Digital Data Carrier
6372.0000 - 6425.0000 MHz		100KG7D	45.97 dBW	Digital Data Carrier
5925.0000 - 6047.0000 MHz		87K0G7D	45.37 dBW	Digital Data Carrier
6080.0000 - 6171.0000 MHz		87K0G7D	45.37 dBW	Digital Data Carrier
6243.0000 - 6270.0000 MHz		87K0G7D	45.37 dBW	Digital Data Carrier
6303.0000 - 6319.0000 MHz		87K0G7D	45.37 dBW	Digital Data Carrier
6372.0000 - 6425.0000 MHz		87K0G7D	45.37 dBW	Digital Data Carrier

Points of Communication:

1 - SES-4 (S2828) - (22.0 W.L.)

SES-LIC-20160401-00315 E E160060 UltiSat, Inc.

Application for Authority

05/24/2016 - 05/24/2031

Grant of Authority

Date Effective: 05/24/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: Anton Larsen Bay Road, Kodiak Island, Kodiak Island, AK
57 ° 47 ' 56.00 " N LAT.

152 ° 36 ' 1.00 " 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 - 6425.0000 MHz	100KG7D	45.97 dBW	Digital Data Carrier
5925.0000 - 6425.0000 MHz	87K0G7D	45.37 dBW	Digital Data Carrier

Points of Communication:

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

SES-LIC-20160407-00329 E WRGB Licensee, LLC
 Application for Authority 05/18/2016 - 05/18/2031
 Grant of Authority Date Effective: 05/18/2016

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION:

ANTENNA ID: 1	1.35 meters	Vertex RSI	C135M
14000.0000 - 14500.0000 MHz	9M00G7W	63.60 dBW	Digital Compressed Video
11700.0000 - 12200.0000 MHz	9M00G7W		Digital Compressed Video

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20151028-00781 E E150015 NBC Telemundo License LLC
 Application for Modification 08/17/2015 - 08/17/2030
 Grant of Authority Date Effective: 05/18/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 4001 Nebraska Avenue, NW, Washington, DC
 38 ° 56 ' 27.20 " N LAT. 77 ° 4 ' 54.70 " W LONG.

ANTENNA ID: 1	5.6 meters	Andrew Corp.	KU-5.6
14000.0000 - 14500.0000 MHz	36M0G7W	82.50 dBW	Digital video, audio and data
14000.0000 - 14500.0000 MHz	500KG7W	64.00 dBW	Digital video, audio and data
11700.0000 - 12200.0000 MHz	36M0G7W		Digital video, audio and data
11700.0000 - 12200.0000 MHz	500KG7W		Digital video, audio and data

13787.0000 - 14000.0000 MHz	36M0G7W	82.50 dBW	Digital video, audio and data
13787.0000 - 14000.0000 MHz	500KG7W	64.00 dBW	Digital video, audio and data
10950.0000 - 11200.0000 MHz	36M0G7W		Digital video, audio and data
10950.0000 - 11200.0000 MHz	500KG7W		Digital video, audio and data
11450.0000 - 11700.0000 MHz	36M0G7W		Digital video, audio and data
11450.0000 - 11700.0000 MHz	500KG7W		Digital video, audio and data

Points of Communication:

1 - PERMITTED LIST - ()

1 - Telstar 12 (S2462) - (15 W. L.)

1 - TELSTAR 12 V (S2933) - (15 W.L.)

SES-MOD-20151102-00791 E E060445 HNS License Sub, LLC

Application for Modification

02/27/2007 - 02/27/2022

Grant of Authority

Date Effective: 05/23/2016

Class of Station: Other

Nature of Service: Fixed Satellite Service

SITE ID: TR3.5M

LOCATION: 50,000 (3.5m) CONUS, AK, HI, PR, VI

0 ° 0 ' 0.00 " N LAT.

0 ° 0 ' 0.00 " W LONG.

ANTENNA ID:	TR3.5	3.5 meters	ASC SIGNAL CORP.	ES35SRT-1
	29500.0000 - 30000.0000 MHz	20M9G7W	75.40 dBW	16.348 MBPS, PSK, DIGITAL CARRIER
	29500.0000 - 30000.0000 MHz	2M61G7W	66.30 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
	29500.0000 - 30000.0000 MHz	650KG7W	60.30 dBW	512 KBPS, PSK, DIGITAL CARRIER
	29250.0000 - 29500.0000 MHz	650KG7W	60.30 dBW	512 KBPS, PSK, DIGITAL CARRIER
	29250.0000 - 29500.0000 MHz	20M9G7W	75.40 dBW	2,048 MBPS, PSK, DIGITAL CARRIER
	19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
	19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
	18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
SITE ID: TFTR1.2M			
LOCATION: 1000 (1.2M) CONUS, AK, HI, PR, VI			
ANTENNA ID: TFTR1.2	1.2 meters	AVL TECHNOLOGIES	1210K
29500.0000 - 30000.0000 MHz	100KG7W	42.70 dBW	QPSK, DATA, INROUTE, 64 KSPS
29250.0000 - 30000.0000 MHz	2M00G7W	55.90 dBW	QPSK, DATA, INROUTE, 1600 KSPS
29250.0000 - 30000.0000 MHz	2M61G7W	55.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
29250.0000 - 29500.0000 MHz	100KG7W	42.70 dBW	QPSK, DATA, INROUTE, 64 KSPS
29250.0000 - 29500.0000 MHz	2M61G7W	55.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
19700.0000 - 20200.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
19700.0000 - 20200.0000 MHz	500MG7W		QPSK, DATA, OUTROUTE, 30 MSPS
18300.0000 - 19300.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
18300.0000 - 19300.0000 MHz	2M61G7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TFTR74CM
LOCATION: 25,000 (74cm) CONUS, AK, HI, PR, VI
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: 74CM(TA)	0.74 meters	GD SATCOM	HNS1031929
29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(TB)	0.74 meters	SKYWARE GLOBAL	AN8-074R
29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(TC)	0.74 meters	GD SATCOM	AN8-074P
29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TFTR98CM
LOCATION: 10,000 (98cm) CONUS, AK, HI, PR, VI
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TFTR98(2)	0.98 meters	SKYWARE GLOBAL	AN8-098RAN-098KA
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER	
19700.0000 - 20200.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER	
18300.0000 - 19300.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER	
18300.0000 - 19300.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER	

ANTENNA ID: TFTR98CM	0.98 meters	GD SATCOM	AN8-098P
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER	
19700.0000 - 20200.0000 MHz	100KG7W	100 MHZ WIDE, PSK, DIGITAL CARRIER	
18300.0000 - 19300.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER	

18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: TFTR98(3)	0.98 meters	AVL TECHNOLOGIES	1010K
29500.0000 - 30000.0000 MHz	500MG7W	41.20 dBW	QPSK, DATA, INROUTE, 64 KSPS
29500.0000 - 30000.0000 MHz	1M48G7W	52.90 dBW	QPSK, DATA, INROUTE, 1100 KSPS
29500.0000 - 30000.0000 MHz	2M61G7W	52.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
29250.0000 - 29500.0000 MHz	2M61G7W	52.90 dBW	QPSK, DATA, INROUTE, 204K KSPS
29250.0000 - 29500.0000 MHz	500MG7W	41.20 dBW	QPSK, DATA, INROUTE, 64 KSPS
19700.0000 - 20200.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
19700.0000 - 20200.0000 MHz	500MG7W		QPSK, DATA, OUTROUTE, 30 MSPS
18300.0000 - 19300.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
18300.0000 - 19300.0000 MHz	500MG7W		QPSK, DATA, OUTROUTE, 30 MSPS

SITE ID: TR98CM
LOCATION: 250,000 (98cm) CONUS, AK, HI, PR, VI
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TR98CM(1)	0.98 meters	GD SATCOM	AN8-098P
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: TR98CM(2)	0.98 meters	SKYWARE GLOBAL	AN8-098R
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER

29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TR74CM
LOCATION: 5,000,000 (74cm) CONUS, AK, HI, PR, VI
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: 74CM(FA)	0.74 meters	GD SATCOM	AN8-074P
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FC)	0.74 meters	SKYWARE GLOBAL	AN8-074R
29250.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PASK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FB)	0.74 meters	GD SATCOM	HNS1031929
29250.0000 - 30000.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FD)	0.74 meters	SKYWARE GLOBAL	AN9-074
28350.0000 - 2860.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W	0.00 dBW	500 MHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 MHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ, PSK, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
29250.0000 - 30000.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER
SITE ID: TR1.8M			
LOCATION: 50,000 (1.8m) CONUS, AK, HI, PR, VI			
0 ° 0 ' 0.00 " N LAT.		0 ° 0 ' 0.00 " W LONG.	
ANTENNA ID: TR1.8	1.8 meters	GD SATCOM	3180-131
29500.0000 - 30000.0000 MHz	20M9G7W	69.80 dBW	16.348 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	60.70 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	650KG7W	54.70 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	54.70 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	20M9G7W	69.80 dBW	16.348 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
SITE ID: TR1.2M			
LOCATION: 100,000 (1.2m) CONUS, AK, HI, PR, VI			
	0 ° 0 ' 0.00 " N LAT.		0 ° 0 ' 0.00 " W LONG.
ANTENNA ID: TR1.2	1.2 meters	GD SATCOM	3120-131
29500.0000 - 30000.0000 MHz	2M61G7W	57.20 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	650KG7W	51.20 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	51.20 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	57.20 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TFTR98CM
LOCATION: 10,000 (1.0m) CONUS, AK, HI, PR, VI

SITE ID: TR69CM
LOCATION: 1,000,000 (69CM)

ANTENNA ID: 69CM	0.69 meters	SKYWARE GLOBAL	HNS-AN8-069R
29250.0000 - 29500.0000 MHz	100KG7W	38.50 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M00G7W	46.80 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	670KG7W	46.80 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		M-ARY PHASE SHIFT KEYING DIGITAL CARRIER

18300.0000 - 19300.0000 MHz	100KG7W	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
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18300.0000 - 19300.0000 MHz	500MG7W	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
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Points of Communication:

TFTR1.2M - AMC-15 - (105 W.L.)

TFTR1.2M - AMC-16 - (85 W.L.)

TFTR1.2M - ECHOSTAR -9 - (121 W.L.)

TFTR1.2M - EchostarXVII(S2753) - (107.1 W.L.)

TFTR1.2M - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR1.2M - SPACEWAY 3 - (94.95 W.L.)

TFTR74CM - AMC-15 - (105 W.L.)

TFTR74CM - AMC-16 - (85 W.L.)

TFTR74CM - DIRECTV 10 - (102.8 W.L.)

TFTR74CM - DIRECTV 11 - (99.2 W.L.)

TFTR74CM - ECHOSTAR -9 - (121 W.L.)

TFTR74CM - EchostarXVII(S2753) - (107.1 W.L.)

TFTR74CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR74CM - SPACEWAY 1 - (103 W.L.)

TFTR74CM - SPACEWAY 2 - (99 W.L.)

TFTR74CM - SPACEWAY 3 - (94.95 W.L.)

TFTR98CM - AMC-15 - (105 W.L.)

TFTR98CM - AMC-16 - (85 W.L.)

TFTR98CM - ECHOSTAR -9 - (121 W.L.)

TFTR98CM - EchostarXVII(S2753) - (107.1 W.L.)

TFTR98CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR98CM - SPACEWAY 1 - (103 W.L.)

TFTR98CM - SPACEWAY 2 - (99 W.L.)

TFTR98CM - SPACEWAY 3 - (94.95 W.L.)

TR1.2M - AMC-15 - (105 W.L.)

TR1.2M - AMC-16 - (85 W.L.)

TR1.2M - EHOSTAR -9 - (121 W.L.)

TR1.2M - EchostarXVII(S2753) - (107.1 W.L.)

TR1.2M - JUPITER 97 W(S2834) - (97.1 W. L.)

TR1.2M - SPACEWAY 1 - (103 W.L.)

TR1.2M - SPACEWAY 2 - (99 W.L.)

TR1.2M - SPACEWAY 3 - (94.95 W.L.)

TR1.8M - AMC-15 - (105 W.L.)

TR1.8M - AMC-16 - (85 W.L.)

TR1.8M - EHOSTAR -9 - (121 W.L.)

TR1.8M - EchostarXVII(S2753) - (107.1 W.L.)

TR1.8M - JUPITER 97 W(S2834) - (97.1 W. L.)

TR1.8M - SPACEWAY 1 - (103 W.L.)

TR1.8M - SPACEWAY 2 - (99 W.L.)

TR1.8M - SPACEWAY 3 - (94.95 W.L.)

TR3.5M - AMC-15 - (105 W.L.)

TR3.5M - AMC-16 - (85 W.L.)

TR3.5M - EHOSTAR -9 - (121 W.L.)

TR3.5M - EchostarXVII(S2753) - (107.1 W.L.)

TR3.5M - JUPITER 97 W(S2834) - (97.1 W. L.)

TR3.5M - SPACEWAY 1 - (103 W.L.)

TR3.5M - SPACEWAY 2 - (99 W.L.)

TR3.5M - SPACEWAY 3 - (94.95 W.L.)

TR69CM - AMC-15 - (105 W.L.)

TR69CM - AMC-16 - (85 W.L.)

TR69CM - EHOSTAR -9 - (121 W.L.)

TR69CM - EchostarXVII(S2753) - (107.1 W.L.)

TR69CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TR69CM - SPACEWAY 1 - (103 W.L.)

TR69CM - SPACEWAY 2 - (99 W.L.)

TR69CM - SPACEWAY 3 - (94.95 W.L.)

TR74CM - AMC-15 - (105 W.L.)

TR74CM - AMC-16 - (85 W.L.)

TR74CM - DIRECTV 10 - (102.8 W.L.)

TR74CM - DIRECTV 11 - (99.2 W.L.)

TR74CM - EHOSTAR -9 - (121 W.L.)

TR74CM - EchostarXVII(S2753) - (107.1 W.L.)

TR74CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TR74CM - SPACEWAY 1 - (103 W.L.)

TR74CM - SPACEWAY 2 - (99 W.L.)

TR74CM - SPACEWAY 3 - (94.95 W.L.)

TR98CM - AMC-15 - (105 W.L.)

TR98CM - AMC-16 - (85 W.L.)

TR98CM - EHOSTAR -9 - (121 W.L.)

TR98CM - EchostarXVII(S2753) - (107.1 W.L.)

TR98CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TR98CM - SPACEWAY 1 - (103 W.L.)

TR98CM - SPACEWAY 2 - (99 W.L.)

TR98CM - SPACEWAY 3 - (94.95 W.L.)

SES-MOD-20160120-00067 E E100117 Communications Laboratories, Inc.

Application for Modification

03/16/2011 - 03/16/2026

Grant of Authority

Date Effective: 05/18/2016

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

SITE ID: REMOTE 3

LOCATION: various locations throughout (1.8M. VSAT), 500 UNITS, CONUS, AK, HI, PR

ANTENNA ID:	Remote 3	1.8 meters	PRODELIN	1183	
	14000.0000 - 14500.0000 MHz		2M00G7D	48.07 dBW	QPSK DATA
	14000.0000 - 14500.0000 MHz		1M00G7D	45.06 dBW	QPSK DATA
	11700.0000 - 12200.0000 MHz		2M00G7D		QPSK DATA

11700.0000 - 12200.0000 MHz 1M00G7D QPSK DATA

SITE ID: REMOTE 4A
LOCATION: (1.2M. VSAT), 500 UNITS, CONUS, AK, HI, PR

ANTENNA ID: Remote 4A 1.2 meters ANDREW 123

14000.0000 - 14500.0000 MHz 2M00G7D 47.50 dBW QPSK DATA

14000.0000 - 14500.0000 MHz 1M00G7D 44.89 dBW QPSK DATA

11700.0000 - 12200.0000 MHz 2M00G7D QPSK DATA

11700.0000 - 12200.0000 MHz 1M50G7D QPSK DATA

SITE ID: HUB3
LOCATION: 169 ASH POINT DRIVE (3.8M.) HUB-3, KNOX, OWLS HEAD, ME
 44 ° 4 ' 1.20 " N LAT. 69 ° 5 ' 39.80 " W LONG.

ANTENNA ID: Hub 3 3.8 meters PRODELIN 1383

14000.0000 - 14500.0000 MHz 2M00G7D 66.00 dBW QPSK DATA

14000.0000 - 14500.0000 MHz 1M50G7D 64.74 dBW QPSK DATA

14000.0000 - 14500.0000 MHz 10M0G7D 71.00 dBW QPSK DATA

11700.0000 - 12200.0000 MHz 2M00G7D QPSK DATA

11700.0000 - 12200.0000 MHz 1M50G7D QPSK DATA

11700.0000 - 12200.0000 MHz 10M0G7D QPSK DATA

SITE ID: REMOTE 2P
LOCATION: various locations throughout (1.2M. VSAT), 2500 UNITS, CONUS, AK, HI

ANTENNA ID: Remote 2P 1.2 meters PRODELIN 1120

14000.0000 - 14500.0000 MHz 2M00G7D 51.00 dBW QPSK DATA

14000.0000 - 14500.0000 MHz 1M00G7D 48.00 dBW QPSK DATA

11700.0000 - 12200.0000 MHz 2M00G7D QPSK DATA

11700.0000 - 12200.0000 MHz 1M00G7D QPSK DATA

SITE ID: HUB4
LOCATION: 169 ASH POINT DRIVE (6.3M.) HUB-4, KNOX, OWLS HEAD, ME
 44 ° 4 ' 1.20 " N LAT. 69 ° 5 ' 39.80 " W LONG.

ANTENNA ID: Hub 4 6.3 meters VERTEX 6.3M.

14000.0000 - 14500.0000 MHz	2M00G7D	70.50 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	1M50G7D	69.24 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	10M0G7D	77.50 dBW	QPSK DATA
11700.0000 - 12200.0000 MHz	2M00G7D		QPSK DATA
11700.0000 - 12200.0000 MHz	1M50G7D		QPSK DATA
11700.0000 - 12200.0000 MHz	10M0G7D		QPSK DATA

SITE ID: REMOTE 5A

LOCATION: various locations throughout (2.4M. VSAT), 200 UNITS, CONUS, AK, HI

ANTENNA ID: Remote 5A 2.4 meters PRODELIN 1251

14000.0000 - 14500.0000 MHz	2M00G7D	58.20 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	1M00G7D	55.20 dBW	QPSK DATA
11700.0000 - 12200.0000 MHz	2M00G7D		QPSK DATA
11700.0000 - 12200.0000 MHz	1M00G7D		QPSK DATA

SITE ID: REMOTE 1A

LOCATION: (0.96M. VSAT), 150 UNITS, CONUS, AK, HI, PR

ANTENNA ID: Remote 1A 0.96 meters ANDREW 960

14000.0000 - 14500.0000 MHz	2M00G7D	46.75 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	1M00G7D	44.53 dBW	QPSK DATA
11700.0000 - 12200.0000 MHz	2M00G7D		QPSK DATA
11700.0000 - 12200.0000 MHz	1M50G7D		QPSK DATA

SITE ID: HUB2

LOCATION: 750 NORTH DRIVE (6.3M.) HUB-2, BREVARD, MELBOURNE, FL
 28 ° 7 ' 7.40 " N LAT. 80 ° 41 ' 21.30 " W LONG.

ANTENNA ID: Hub 2 6.3 meters VERTEX 6.3M.

14000.0000 - 14500.0000 MHz	2M00G7D	56.38 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	1M50G7D	55.34 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	10M0G7D	77.50 dBW	QPSK DATA
11700.0000 - 12200.0000 MHz	2M00G7D		QPSK DATA

11700.0000 - 12200.0000 MHz	1M50G7D	QPSK DATA
11700.0000 - 12200.0000 MHz	10M0G7D	QPSK DATA

SITE ID: HUB1
 LOCATION: 750 NORTH DRIVE (3.8M.) HUB-1, BREVARD, MELBOURNE, FL
 28 ° 7 ' 7.40 " N LAT. 80 ° 41 ' 21.30 " W LONG.

ANTENNA ID: Hub 1 3.8 meters PRODELIN 1383

14000.0000 - 14500.0000 MHz	2M00G7D	56.18 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	1M50G7D	54.94 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	10M0G7D	71.70 dBW	QPSK DATA
11700.0000 - 12200.0000 MHz	2M00G7D		QPSK DATA
11700.0000 - 12200.0000 MHz	1M50G7D		QPSK DATA
11700.0000 - 12200.0000 MHz	10M0G7D		QPSK DATA

SITE ID: HUB5
 LOCATION: 169 ASH POINT DRIVE (5.6M.) HUB-5, KNOX, OWLS HEAD, ME
 44 ° 4 ' 1.20 " N LAT. 69 ° 5 ' 39.80 " W LONG.

ANTENNA ID: Hub 5 5.6 meters ASC SIGNAL 5.6M.

14000.0000 - 14500.0000 MHz	1M50G7D	68.74 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	10M0G7D	76.98 dBW	QPSK DATA
11700.0000 - 12200.0000 MHz	1M50G7D		QPSK DATA
11700.0000 - 12200.0000 MHz	10M0G7D		QPSK DATA

SITE ID: HUB6
 LOCATION: 4005 OPPORTUNITY DRIVE (5.6M.) HUB-6, BREVARD, MELBOURNE, FL
 28 ° 6 ' 43.00 " N LAT. 80 ° 41 ' 31.00 " W LONG.

ANTENNA ID: Hub 6 5.6 meters ASC SIGNAL 5.6M.

14000.0000 - 14500.0000 MHz	1M50G7D	68.74 dBW	QPSK DATA
14000.0000 - 14500.0000 MHz	10M0G7D	76.98 dBW	QPSK DATA
11700.0000 - 12200.0000 MHz	1M50G7D		QPSK DATA
11700.0000 - 12200.0000 MHz	10M0G7D		QPSK DATA

SITE ID: HUB7
LOCATION: 4005 OPPORTUNITY DRIVE (9.0M.) HUB-7, BREVARD, MELBOURNE, FL
28 ° 6 ' 43.00 " N LAT. 80 ° 41 ' 31.00 " W LONG.

ANTENNA ID:	Hub 7	9 meters	VERTEX	9.0M.	
	14000.0000 - 14500.0000 MHz		1M50G7D	71.84 dBW	QPSK DATA
	14000.0000 - 14500.0000 MHz		10M0G7D	80.10 dBW	QPSK DATA
	11700.0000 - 12200.0000 MHz		1M50G7D		QPSK DATA
	11700.0000 - 12200.0000 MHz		10M0G7D		QPSK DATA

SITE ID: REMOTE 6
LOCATION: (1.0M. VSAT), 500 UNITS, VARIOUS

ANTENNA ID:	Remote 6	1 meters	COBHAM	8100	
	14000.0000 - 14500.0000 MHz		2M00G7D	50.23 dBW	QPSK DATA
	14000.0000 - 14500.0000 MHz		1M00G7D	47.20 dBW	QPSK DATA
	11700.0000 - 12200.0000 MHz		2M00G7D		QPSK DATA
	11700.0000 - 12200.0000 MHz		1M00G7D		QPSK DATA

SITE ID: REMOTE 7
LOCATION: (1.8M. VSAT), 250 UNITS, CONUS, AK, HI,US

ANTENNA ID:	Remote 7	1.8 meters	AVL	1878	
	14000.0000 - 14500.0000 MHz		2M00G7D	54.48 dBW	QPSK DATA
	14000.0000 - 14500.0000 MHz		1M00G7D	51.47 dBW	QPSK DATA
	11700.0000 - 12200.0000 MHz		2M00G7D		QPSK DATA
	11700.0000 - 12200.0000 MHz		1M00G7D		QPSK DATA
	11700.0000 - 12200.0000 MHz		1M00G7D		QPSK DATA

SITE ID: REMOTE 8
LOCATION: (0.75M. VSAT), 250 UNITS, CONUS, AK, HI,US

ANTENNA ID:	Remote 8	0.75 meters	TRACSTAR	.75	
	14000.0000 - 14500.0000 MHz		2M00G7D	49.30 dBW	QPSK DATA
	14000.0000 - 14500.0000 MHz		1M00G7D	49.21 dBW	QPSK DATA
	11700.0000 - 12200.0000 MHz		2M00G7D		QPSK DATA

Points of Communication:

HUB1 - AMC 21 - (125 W.L.)
HUB1 - PERMITTED LIST - ()
HUB2 - PERMITTED LIST - ()
HUB3 - PERMITTED LIST - ()
HUB4 - PERMITTED LIST - ()
HUB5 - PERMITTED LIST - ()
HUB6 - PERMITTED LIST - ()
HUB7 - PERMITTED LIST - ()

REMOTE 1A - AMC 21 - (125 W.L.)
REMOTE 2P - AMC 21 - (125 W.L.)
REMOTE 2P - PERMITTED LIST - ()
REMOTE 3 - AMC 21 - (125 W.L.)
REMOTE 3 - PERMITTED LIST - ()
REMOTE 4A - AMC 21 - (125 W.L.)
REMOTE 5A - AMC 21 - (125 W.L.)
REMOTE 5A - PERMITTED LIST - ()
REMOTE 6 - PERMITTED LIST - ()
REMOTE 7 - PERMITTED LIST - ()
REMOTE 8 - PERMITTED LIST - ()

SES-MOD-20160411-00331 E E060248 Spokane Public Radio Inc

Application for Modification
Grant of Authority

06/27/2006 - 06/27/2021
Date Effective: 05/23/2016

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1229 N MONROE STREET, SPOKANE, SPOKANE, WA
47 ° 40 ' 8.10 " N LAT. 117 ° 25 ' 38.70 " W LONG.

ANTENNA ID:	1	3.8 meters	DH SATELLITE	D38P48-4PC
	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-20160503-00392 E KA275 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 05/12/2016

Class of Station:

On May 12, 2016, Intelsat License LLC was granted special temporary authority for 30 days, beginning May 26, 2016, to operate its fixed earth station in Hagerstown, MD, to provide launch and early orbit phase ("LEOP") services for the Thaicom-8 satellite as it proceeds to the 78.5° E.L. orbital location, using the following center frequencies: 6420 MHz and 6423 MHz (Earth-to-space), and 4196 MHz and 4197 MHz (space-to-Earth).

Points of Communication:

SES-STA-20160511-00408 E HARRIS CORPORATION

Special Temporary Authority

Grant of Authority

Date Effective: 05/18/2016

Class of Station:

On May 18, 2016, Harris Corporation was granted special temporary authority for 30 days, beginning May 18, 2016, to test a 2.4-meter antenna fixed earth station in Prospect, CT with the AMC-8 (S2379) satellite at the 139° W.L. orbital location, in the 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20160511-00409 E HARRIS CORPORATION

Special Temporary Authority

Grant of Authority

Date Effective: 05/18/2016

Class of Station:

On May 18, 2016, Harris Corporation was granted special temporary authority for 30 days, beginning May 18, 2016, to test a 2.4-meter antenna fixed earth station in Anchorage, AK with the AMC-8 (S2379) satellite at the 139° W.L. orbital location in the 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20160512-00428 E E080100 Row 44 Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 05/19/2016

Class of Station:

On May 19, 2016, Row 44, Inc. was granted special temporary authority for 60 days, beginning May 19, 2016, to operate its 0.62 meter TECOM Ku-Stream antenna earth stations aboard aircraft (ESAA) with the Eutelsat 115 West B satellite (S2938) at the 114.9° W.L. orbital location using the 14.05 to 14.47 GHz (Earth-to-space), and 11.7-12.2 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20160520-00445 E E080100 Row 44 Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 05/23/2016

Class of Station:

On May 23, 2016 Row 44, Inc. was granted special temporary authority for a period of 30 days, beginning May 23, 2016, to operate its 0.62 meter TECOM Ku-Stream antenna earth stations aboard aircraft (ESAA) with the AMC-6 satellite (S2347) at the 72° W/L. orbital location using the 14.05 to 14.47 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-T/C-20160119-00063 E WB36 Marlink, Inc.

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 05/24/2016

Current Licensee: Marlink, Inc.

FROM: AIRBUS DS HOLDING SAS

TO: Toruk AS

No. of Station(s) listed: 1

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