



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-02073

Wednesday June 27, 2018

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-AMD-20180531-00907 E E180287 Fox Broadcasting Company

Amendment

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

See IBFS File No. SES-REG-20180511-00654 for a description of this application.

SITE ID: 1

LOCATION: 1261 Dublin Road, Franklin, Columbus, OH
39 ° 58 ' 32.40 " N LAT.

83 ° 3 ' 33.40 " W LONG.

ANTENNA ID: 1 4.5 meters Andrew Corporation ESA45-46A

3700.0000 - 4200.0000 MHz 36M0G7W digital data: various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-LIC-20180601-01012 E E180569 NBC Telemundo License LLC

Application for Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 2350 West 117 Place, Miami-Dade, Miami, FL
25 ° 47 ' 40.60 " N LAT.

80 ° 23 ' 27.70 " W LONG.

ANTENNA ID:	1	3.8 meters	Prodelin	3.8
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio and data on phase modulated carriers
ANTENNA ID:	2	3.7 meters	General Dynamics	3.7 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio and data on phase modulated carriers
ANTENNA ID:	3	4.8 meters	General Dynamics	4.8 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio and data on phase modulated carriers
ANTENNA ID:	4	7.3 meters	General Dynamics	7.3 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio and data on phase modulated carriers
ANTENNA ID:	5	4.8 meters	Vertex	4.8 KPC
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital video, audio and data on phase modulated carriers
	5925.0000 - 6425.0000 MHz		36M0G7W	62.70 dBW Digital video, audio and data on phase modulated carriers
ANTENNA ID:	6	3.8 meters	Vertex	3.8 meter
	11450.0000 - 12200.0000 MHz		36M0G7W	Digital video, audio and data on phase modulated carriers
	10950.0000 - 11200.0000 MHz		36M0G7W	Digital video, audio and data on phase modulated carriers
	14000.0000 - 14500.0000 MHz		36M0G7W	71.50 dBW Digital video, audio and data on phase modulated carriers

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180420-00381 E E000166 HNS License Sub, LLC

Application for Modification

Class of Station: VSAT Network

Nature of Service: Fixed Satellite Service

HNS License Sub, LLC submitted a notification of a minor modification of its VSAT Network blanket license authorization as required by 47 C.F.R. Sec. 25.118(a)(4) to add new 1.2-meter antenna, model 9505170-0013, manufactured by Skyware Global, and operating within the existing authorized limits of Antenna IDs "TR1.2M" and "TFTR 1.2M".

SITE ID: TR 1.2M.

LOCATION: VSAT 1.2M (100,000 UNITS), CONUS, AK, HI, VI PR

ANTENNA ID:	TR 1.2M.	1.2 meters	PRODELIN/ SKYWARE GLOBAL	HNS-AN-9505170-0013
	14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TR 1.8M.
LOCATION: VSAT 1.8M (50,000 UNITS), CONUS, AK, HI, VI PR

ANTENNA ID:	TR 1.8M.	1.8 meters	PRODELIN CORP.	HNS-AN-180P-KU
	14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	49.70 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER

11700.0000 - 12200.0000 MHz	6M00G7D	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D	PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: HUB-B
LOCATION: 7.6M (HUB) 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 45.50 " N LAT. 77 ° 14 ' 41.20 " W LONG.

ANTENNA ID: HubB7.6	7.6 meters	ANDREW CORP.	ES76K-1
14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	PSK, DATA, 20 MSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	53.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK, DIGITAL, 128 KSPS, INROUTE CARRIER

SITE ID: TR 1.0M.
LOCATION: VSAT 1.0M (135 cm x 58 cm) (100,000 UNITS), CONUS, AK,HI,PR,VI

ANTENNA ID: TR 1.0M.	1 meters	PRODELIN CORP.	1102 (135 cm x 58 cm)
14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	PSK, DIGITAL 128 KSPS, INROUTE CARRIER

14000.0000 - 14500.0000 MHz	800KG7D	44.00 dBW	OQPSK, DIGITAL 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.00 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TFTR 98CM
LOCATION: VSAT 0.98M temporary-fixed (54,000 UNITS), CONUS, AK, HI, PR, VI

ANTENNA ID: TFTR 98CM	0.98 meters	PRODELIN	HNS-AN-098P-KU
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	DIGITAL, PSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	DIGITAL, PSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

ANTENNA ID: TFTR 98CM 0.98 meters RAVEN MANUFACTURING LIMITED HNS-AN-98R-KU

SITE ID: TFTR 74CM
LOCATION: VSAT 0.74M (98 x 56 cm) temporary-fixed (60,200 UNITS), CONUS, AK, HI, PR, VI

ANTENNA ID: TFTR 74CM 0.74 meters PRODELIN HNS-AN-074P-KU

14000.0000 - 14500.0000 MHz	200KG7D	42.00 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7W	42.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	42.00 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: HUB-A

LOCATION: 7.6M.(HUB) 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
 39 ° 10 ' 48.80 " N LAT. 77 ° 14 ' 46.80 " W LONG.

ANTENNA ID: HubA7.6M 7.6 meters ANDREW CORP. ES76K-1

14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	PSK, DATA, 20 MSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	53.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER

11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

SITE ID: MESH 3.5M.
LOCATION: (5,000 3.5M. UNITS), CONUS, AK, HI, VI PR

ANTENNA ID: MESH 3.5M	3.5 meters	COMTECH	846400G1
14000.0000 - 14500.0000 MHz	2M46G7D	66.20 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
11700.0000 - 12200.0000 MHz	2M46G7D		BPSK OR OQPSK, DATA, MESH CARRIER

SITE ID: MESH 1.8M.
LOCATION: (5,000 1.8M UNITS), CONUS, AK, HI, PR VI

ANTENNA ID: MESH 1.8M	1.8 meters	HUGHES NETWORK SYSTEMS	PES-RFT-180
14000.0000 - 14500.0000 MHz	156KG7D	48.60 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
11700.0000 - 12200.0000 MHz	156KG7D		BPSK OR OQPSK, DATA, MESH CARRIER

SITE ID: MESH 2.4M.
LOCATION: (5,000 2.4M. UNITS), CONUS, AK, HI, PR VI

ANTENNA ID: MESH 2.4M	2.4 meters	HUGHES NETWORK SYSTEMS	PES-RFT-240
14000.0000 - 14500.0000 MHz	307KG7D	53.70 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
11700.0000 - 12200.0000 MHz	307KG7D		BPSK OR OQPSK, DATA, MESH CARRIER

SITE ID: MESH 1.2M.
LOCATION: (5,000 1.2M. UNITS), CONUS, AK, HI, PR VI

ANTENNA ID: MESH 1.2M	1.2 meters	HUGHES NETWORK SYTEMS	PES-RFT-120
14000.0000 - 14500.0000 MHz	156KG7D	45.00 dBW	BPSK OR OQPSK, DATA, MESH CARRIER
11700.0000 - 12200.0000 MHz	156KG7D	0.00 dBW	BPSK OR OQPSK, DATA, MESH CARRIER

SITE ID: TR 74-2 CM
LOCATION: 500,000 (.74 METER ANTENNAS), CONUS, AK, HI, VI PR

ANTENNA ID:	TR 74-2CM	0.74 meters	RAVEN	HNS-AN-074R-KU	
14000.0000 - 14500.0000 MHz			200KG7D	41.70 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz			400KG7D	41.70 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz			800KG7D	41.70 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz			1M60G7D	41.70 dBW	PSK, DATA, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz			6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz			12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz			24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz			36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz			400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TFTR 74-2CM
LOCATION: 50,000 (.74 METER ANTENNAS), CONUS, AK, HI, VI PR

ANTENNA ID:	TFTR 74-2C	0.74 meters	PRODELIN	HNS-AN-074P-KU	
14000.0000 - 14500.0000 MHz			200KG7D	41.70 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz			400KG7D	41.70 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz			800KG7D	41.70 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz			1M60G7D	41.70 dBW	PSK, DATA, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz			6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz			12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz			24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz			36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER

11700.0000 - 12200.0000 MHz	400KG7D	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
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SITE ID:	HUB H (11.1M)
LOCATION:	17633 TECHNOLOGY BLVD. (11.1M.HUB), WASHINGTON, HAGERSTOWN, MD 39 ° 35 ' 56.30 " N LAT. 77 ° 45 ' 17.90 " W LONG.

ANTENNA ID:	HUB H 11-1	11.1 meters	VERTEX	11.1 KPK
14470.0000 - 14497.0000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE	
14470.0000 - 14497.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE	
14470.0000 - 14497.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE	
14253.0000 - 14311.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE	
14253.0000 - 14311.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE	
14253.0000 - 14311.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE	
14246.5000 - 14366.5000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE	
14246.5000 - 14366.5000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE	
14246.5000 - 14366.5000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE	
14246.5000 - 14366.5000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE	
14122.5000 - 14149.5000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE	
14122.5000 - 14149.5000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE	
14122.5000 - 14149.5000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE	
14122.5000 - 14149.5000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE	
14102.0000 - 14318.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE	
14102.0000 - 14318.0000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE	

14069.0000 - 14123.0000 MHz	6M00G7D	79.60 dBW	DIGITAL, PSK, DATA, 5 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	12M0G7D	82.60 dBW	DIGITAL, PSK, DATA, 10 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	24M0G7D	85.60 dBW	DIGITAL, PSK, DATA, 20 MSPS, OUTROUTE
14069.0000 - 14123.0000 MHz	36M0G7D	87.40 dBW	DIGITAL, PSK, DATA, 30 MSPS, OUTROUTE
12170.0000 - 12197.0000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
12170.0000 - 12197.0000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11953.0000 - 12011.0000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11946.5000 - 12066.5000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	200KG7D		DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	400KG7D		DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	800KG7D		DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11822.5000 - 11849.5000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE
11802.0000 - 12018.0000 MHz	1M60G7D		DIGITAL, PSK, DATA, 1024 KSPS, INROUTE

11802.0000 - 12018.0000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	200KG7D	DIGITAL, PSK, DATA, 128 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	400KG7D	DIGITAL, PSK, DATA, 256 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	800KG7D	DIGITAL, PSK, DATA, 512 KSPS, INROUTE
11769.0000 - 11823.0000 MHz	1M60G7D	DIGITAL, PSK, DATA, 1024 KSPS, INROUTE

SITE ID: HUB 1 (3.9 M)
LOCATION: (3.9M.HUB1), MONTGOMERY, GERMANTOWN, MD

ANTENNA ID: HUB 1	3.9 meters	ANDREW CORPORATION	MILSATCOM 3.9 METER
14000.0000 - 14500.0000 MHz	36M0G7D	77.60 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	64.80 dBW	PSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DATA, 1024 KSPS, INROUTE CARRIER

SITE ID: TR 98CM
LOCATION: 400,000 (98CM ANTENNAS), CONUS, AK, HI, VI PR

ANTENNA ID: TR 98CM	0.98 meters	PRODELIN	HNS-AN-098P-KU
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	PSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	OQPSK, DIGITAL, 1024 KSPS, REURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		OQPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		DIGITAL PSK, DATA, 5 MSPS, MULTIMEDIA

11700.0000 - 12200.0000 MHz	12M0G7D			DIGITAL PSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D			DIGITAL PSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	400KG7D			PSK, DATA, 256 KSPS, OUTROUTE CARRIER
ANTENNA ID: TR 98CM-2	0.98 meters	RAVEN MANUFACTURING LIMITED		HNS-AN-098R-KU
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW		DIGITAL PSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW		DIGITAL PSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW		DIGITAL PSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW		PSK, DATA, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D			PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D			OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D			OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D			PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TFTR 1.2M.
LOCATION: 1.2 M. (50,000 UNITS), CONUS, AK, HI, PR VI

ANTENNA ID: TFTR 1.2M	1.2 meters	PRODELIN / SKYWARE GLOBAL		HNS-AN/19505170-0013
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW		PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7W	46.10 dBW		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: TR 74CM

LOCATION: VSAT 0.74M (98 x 56 cm) (350,000 UNITS), CONUS, AK,HI,PR, VI

ANTENNA ID: TR 74CM	0.74 meters	PRODELIN	HNS-AN-074P-KU
14000.0000 - 14500.0000 MHz	200KG7D	42.00 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	42.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	42.00 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: HUB-C 7.6M
 LOCATION: 11717 EXPLORATION LANE (7.6M. HUB), MONTGOMERY, GERMANTOWN, MD
 39 ° 10 ' 43.70 " N LAT. 77 ° 14 ' 55.30 " W LONG.

ANTENNA ID:	HubC 7.6M	7.6 meters	NEC	APS-12/14-F64A
	14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	65.00 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	6M00G7D	70.80 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	PSK, DATA, 10 MSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz	200KG7D		PSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

SITE ID: TR 2.4M.
 LOCATION: VSAT 2.4M (11,000 units), CONUS, AK, HI, VI PR

ANTENNA ID:	TR 2.4M.	2.4 meters	PRODELIN CORP.	HNS-AN-240P-KU
	14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	PSK, DIGITAL, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	52.20 dBW	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	24M0G7D		OQPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		PSK, DATA, 30 MSPS, OUTROUTE CARRIER

11700.0000 - 12200.0000 MHz	6M00G7D			OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D			OQPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D			PSK, DATA, 256 KSPS, OUTROUTE CARRIER

SITE ID: HUB-D 7.6M
LOCATION: 11717 EXPLORATION LANE (7.6M. HUB), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 43.60 " N LAT. 77 ° 14 ' 53.30 " W LONG.

ANTENNA ID:	HubD 7.6M	7.6 meters	NEC	APS-12/14-F0764A
14000.0000 - 14500.0000 MHz	400KG7D		59.00 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D		65.00 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D		70.80 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D		73.80 dBW	PSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D			PSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D			BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D			BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D			PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

SITE ID: HUB-E 6.1M
LOCATION: 11717 EXPLORATION LANE (6.1M. HUB), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 46.00 " N LAT. 77 ° 14 ' 48.20 " W LONG.

ANTENNA ID:	HubE 6.1M	6.1 meters	VERTEX	6.1KPK
14000.0000 - 14500.0000 MHz	400KG7D		52.90 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D		58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	6M00G7D		67.70 dBW	OQPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	79.70 dBW	PSK, DATA, 20 MSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	97.70 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		QPSK, DATA, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

SITE ID: HUB-F 5.6M
LOCATION: 11717 EXPLORATION LANE (5.6M. HUB), MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 46.80 " N LAT. 77 ° 14 ' 47.50 " W LONG.

ANTENNA ID:	HubF 5.6M	5.6 meters	ANDREW	ES56-1
14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	1M60G7D	58.90 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	6M00G7D	67.70 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER	
14000.0000 - 14500.0000 MHz	12M0G7D	70.70 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER	
14000.0000 - 14500.0000 MHz	24M0G7D	77.70 dBW	PSK, DATA, 20 MSPS, OUTROUTE CARRIER	
14000.0000 - 14500.0000 MHz	36M0G7D	77.70 dBW	PSK, DATA, 30 MSPS, OUTROUTE CARRIER	
11700.0000 - 12200.0000 MHz	200KG7D		PSK, DATA, 128 KSPS, INROUTE CARRIER	

11700.0000 - 12200.0000 MHz	400KG7D	OQPSK, DATA, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	200KG7D	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D	BPSK OR MSK, DATA, 522 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D	PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

SITE ID: HUB-G 4.6M
LOCATION: 10450 PACIFIC CENTER COURT (4.6M. HUB), SAN DIEGO, SAN DIEGO, CA
32 ° 54 ' 28.40 " N LAT. 117 ° 11 ' 26.60 " W LONG.

ANTENNA ID: HubG 4.6M	4.6 meters	VERTEX	4.57KPK
14000.0000 - 14500.0000 MHz	400KG7D	57.50 dBW	PSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	57.50 dBW	PSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		PSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		PSK, DIGITAL, 1024 KSPS, INROUTE CARRIER

Points of Communication:

- HUB 1 (3.9 M) - PERMITTED LIST - ()
- HUB H (11.1M) - GALAXY 25 (S2154) - (93.1 W.L.)
- HUB-A - E117 WA (S2873) - (116.8 W.L.)
- HUB-A - GALAXY 10R - (123 W.L.)
- HUB-A - GALAXY 28 (S2160) - (89.0 W.L.)
- HUB-A - HORIZONS 1 (S2475) - (127 WL)
- HUB-A - PERMITTED LIST - ()
- HUB-B - E117 WA (S2873) - (116.8 W.L.)

HUB-B - GALAXY 10R - (123 W.L.)

HUB-B - GALAXY 28 (S2160) - (89.0 W.L.)

HUB-B - HORIZONS 1 (S2475) - (127 WL)

HUB-B - PERMITTED LIST - ()

HUB-C 7.6M - E117 WA (S2873) - (116.8 W.L.)

HUB-C 7.6M - GALAXY 10R - (123 W.L.)

HUB-C 7.6M - GALAXY 28 (S2160) - (89.0 W.L.)

HUB-C 7.6M - HORIZONS 1 (S2475) - (127 WL)

HUB-C 7.6M - PERMITTED LIST - ()

HUB-D 7.6M - E117 WA (S2873) - (116.8 W.L.)

HUB-D 7.6M - GALAXY 10R - (123 W.L.)

HUB-D 7.6M - GALAXY 28 (S2160) - (89.0 W.L.)

HUB-D 7.6M - HORIZONS 1 (S2475) - (127 WL)

HUB-D 7.6M - PERMITTED LIST - ()

HUB-E 6.1M - E117 WA (S2873) - (116.8 W.L.)

HUB-E 6.1M - GALAXY 10R - (123 W.L.)

HUB-E 6.1M - GALAXY 28 (S2160) - (89.0 W.L.)

HUB-E 6.1M - HORIZONS 1 (S2475) - (127 WL)

HUB-E 6.1M - PERMITTED LIST - ()

HUB-F 5.6M - E117 WA (S2873) - (116.8 W.L.)

HUB-F 5.6M - GALAXY 10R - (123 W.L.)

HUB-F 5.6M - GALAXY 28 (S2160) - (89.0 W.L.)

HUB-F 5.6M - HORIZONS 1 (S2475) - (127 WL)

HUB-F 5.6M - PERMITTED LIST - ()

HUB-G 4.6M - E117 WA (S2873) - (116.8 W.L.)

HUB-G 4.6M - PERMITTED LIST - ()

MESH 1.2M. - PERMITTED LIST - ()

MESH 1.8M. - PERMITTED LIST - ()

MESH 2.4M. - PERMITTED LIST - ()

MESH 3.5M. - PERMITTED LIST - ()

TFTR 1.2M. - E117 WA (S2873) - (116.8 W.L.)

TFTR 1.2M. - PERMITTED LIST - ()

TFTR 74-2CM - AMC-3 - (72 W.L.)

TFTR 74-2CM - AMC-4 (S2135) - (134.9 W.L.)

TFTR 74-2CM - AMC-6 (S2347) - (83 W.L.)

TFTR 74-2CM - AMC-9 - (85 W.L.)

TFTR 74-2CM - E117 WA (S2873) - (116.8 W.L.)

TFTR 74-2CM - Eutelsat113WA(S2695) - (113 W.L.)

TFTR 74-2CM - GALAXY 10R - (123 W.L.)

TFTR 74-2CM - GALAXY 16 (S2687) - (99 W.L.)

TFTR 74-2CM - GALAXY 17 (S2715) - (91 W.L.)

TFTR 74-2CM - GALAXY 17 (S2715) - (91 W.L.)

TFTR 74-2CM - GALAXY 18 - (123 W.L.)

TFTR 74-2CM - GALAXY 19 (S2647) - (97 W.L.)

TFTR 74-2CM - GALAXY 25 (S2154) - (93.1 W.L.)

TFTR 74-2CM - GALAXY 28 (S2160) - (89.0 W.L.)

TFTR 74-2CM - GALAXY 3C (S2381) - (95.05 W.L.)

TFTR 74-2CM - HORIZONS 1 (S2475) - (127 WL)

TFTR 74CM - AMC-3 - (72 W.L.)

TFTR 74CM - AMC-4 (S2135) - (134.9 W.L.)

TFTR 74CM - AMC-6 (S2347) - (83 W.L.)

TFTR 74CM - AMC-9 - (85 W.L.)

TFTR 74CM - E117 WA (S2873) - (116.8 W.L.)

TFTR 74CM - Eutelsat113WA(S2695) - (113 W.L.)

TFTR 74CM - GALAXY 10R - (123 W.L.)

TFTR 74CM - GALAXY 16 (S2687) - (99 W.L.)

TFTR 74CM - GALAXY 17 (S2715) - (91 W.L.)

TFTR 74CM - GALAXY 17 (S2715) - (91 W.L.)

TFTR 74CM - GALAXY 18 - (123 W.L.)

TFTR 74CM - GALAXY 19 (S2647) - (97 W.L.)

TFTR 74CM - GALAXY 19 (S2647) - (97 W.L.)

TFTR 74CM - GALAXY 25 (S2154) - (93.1 W.L.)

TFTR 74CM - GALAXY 28 (S2160) - (89.0 W.L.)

TFTR 74CM - GALAXY 3C (S2381) - (95.05 W.L.)

TFTR 74CM - HORIZONS 1 (S2475) - (127 WL)

TFTR 98CM - AMC-3 - (72 W.L.)

TFTR 98CM - AMC-4 (S2135) - (134.9 W.L.)

TFTR 98CM - AMC-6 (S2347) - (83 W.L.)

TFTR 98CM - AMC-9 - (85 W.L.)

TFTR 98CM - E117 WA (S2873) - (116.8 W.L.)

TFTR 98CM - Eutelsat113WA(S2695) - (113 W.L.)

TFTR 98CM - GALAXY 10R - (123 W.L.)

TFTR 98CM - GALAXY 17 (S2715) - (91 W.L.)

TFTR 98CM - GALAXY 17 (S2715) - (91 W.L.)

TFTR 98CM - GALAXY 18 - (123 W.L.)

TFTR 98CM - GALAXY 19 (S2647) - (97 W.L.)

TFTR 98CM - GALAXY 19 (S2647) - (97 W.L.)

TFTR 98CM - GALAXY 25 (S2154) - (93.1 W.L.)

TFTR 98CM - GALAXY 28 (S2160) - (89.0 W.L.)

TFTR 98CM - GALAXY 3C (S2381) - (95.05 W.L.)

TFTR 98CM - HORIZONS 1 (S2475) - (127 WL)

TR 1.0M. - E117 WA (S2873) - (116.8 W.L.)

TR 1.0M. - PERMITTED LIST - ()

TR 1.2M. - E117 WA (S2873) - (116.8 W.L.)

TR 1.2M. - PERMITTED LIST - ()

TR 1.8M. - E117 WA (S2873) - (116.8 W.L.)

TR 1.8M. - PERMITTED LIST - ()

TR 2.4M. - E117 WA (S2873) - (116.8 W.L.)

TR 2.4M. - PERMITTED LIST - ()

TR 74-2 CM - AMC-3 - (72 W.L.)

TR 74-2 CM - AMC-4 (S2135) - (134.9 W.L.)

TR 74-2 CM - AMC-6 (S2347) - (83 W.L.)

TR 74-2 CM - AMC-9 - (85 W.L.)

TR 74-2 CM - E117 WA (S2873) - (116.8 W.L.)

TR 74-2 CM - Eutelsat113WA(S2695) - (113 W.L.)

TR 74-2 CM - GALAXY 10R - (123 W.L.)

TR 74-2 CM - GALAXY 16 (S2687) - (99 W.L.)

TR 74-2 CM - GALAXY 17 (S2715) - (91 W.L.)

TR 74-2 CM - GALAXY 17 (S2715) - (91 W.L.)

TR 74-2 CM - GALAXY 18 - (123 W.L.)

TR 74-2 CM - GALAXY 19 (S2647) - (97 W.L.)

TR 74-2 CM - GALAXY 19 (S2647) - (97 W.L.)

TR 74-2 CM - GALAXY 25 (S2154) - (93.1 W.L.)

TR 74-2 CM - GALAXY 25 (S2154) - (93.1 W.L.)

TR 74-2 CM - GALAXY 28 (S2160) - (89.0 W.L.)

TR 74-2 CM - GALAXY 3C (S2381) - (95.05 W.L.)

TR 74-2 CM - HORIZONS 1 (S2475) - (127 WL)

TR 74CM - AMC-3 - (72 W.L.)

TR 74CM - AMC-4 (S2135) - (134.9 W.L.)

TR 74CM - AMC-6 (S2347) - (83 W.L.)

TR 74CM - AMC-9 - (85 W.L.)

TR 74CM - E117 WA (S2873) - (116.8 W.L.)

TR 74CM - Eutelsat113WA(S2695) - (113 W.L.)

TR 74CM - GALAXY 10R - (123 W.L.)

TR 74CM - GALAXY 16 (S2687) - (99 W.L.)

TR 74CM - GALAXY 16 (S2687) - (99 W.L.)

TR 74CM - GALAXY 17 (S2715) - (91 W.L.)

TR 74CM - GALAXY 17 (S2715) - (91 W.L.)

TR 74CM - GALAXY 18 - (123 W.L.)

TR 74CM - GALAXY 19 (S2647) - (97 W.L.)

TR 74CM - GALAXY 19 (S2647) - (97 W.L.)
TR 74CM - GALAXY 25 (S2154) - (93.1 W.L.)
TR 74CM - GALAXY 25 (S2154) - (93.1 W.L.)
TR 74CM - GALAXY 28 (S2160) - (89.0 W.L.)
TR 74CM - GALAXY 3C (S2381) - (95.05 W.L.)
TR 74CM - HORIZONS 1 (S2475) - (127 WL)
TR 98CM - AMC-3 - (72 W.L.)
TR 98CM - AMC-4 (S2135) - (134.9 W.L.)
TR 98CM - AMC-6 (S2347) - (83 W.L.)
TR 98CM - E117 WA (S2873) - (116.8 W.L.)
TR 98CM - Eutelsat113WA(S2695) - (113 W.L.)
TR 98CM - GALAXY 10R - (123 W.L.)
TR 98CM - GALAXY 16 (S2687) - (99 W.L.)
TR 98CM - GALAXY 17 (S2715) - (91 W.L.)
TR 98CM - GALAXY 17 (S2715) - (91 W.L.)
TR 98CM - GALAXY 18 - (123 W.L.)
TR 98CM - GALAXY 19 (S2647) - (97 W.L.)
TR 98CM - GALAXY 19 (S2647) - (97 W.L.)
TR 98CM - GALAXY 25 (S2154) - (93.1 W.L.)
TR 98CM - GALAXY 28 (S2160) - (89.0 W.L.)
TR 98CM - GALAXY 3C (S2381) - (95.05 W.L.)
TR 98CM - HORIZONS 1 (S2475) - (127 WL)

SES-MOD-20180601-01074 E E000460 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Montgomery, AL to change emission designators, to change the existing 4.5-meter antenna and add a 4.5-meter antenna and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1

LOCATION: ONE WCOV AVENUE, MONTGOMERY, MONTGOMERY, AL

32 ° 20 ' 1.00 " N LAT.

86 ° 17 ' 16.90 " W LONG.

ANTENNA ID:	4.5M.	5 meters	ANDREW CORPORATION	ESA45-46A
	3700.0000 - 4200.0000 MHz		36M0G7F	DIGITAL TRAFFIC, VARIOUS FEC, MODULATIONS AND DATA RATES
	3700.0000 - 4200.0000 MHz		36M0F8F	VIDEO CARRIER

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01152 E E050212 WLOX License Subsidiary, LLC

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

WLOX License Subsidiary, LLC requests modification of its fixed earth station in Biloxi, MS to correct site coordinates and update the emission designator. This station will continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1
 LOCATION: 208 DEBUYS ROAD (WLOX), HARRISON, BILOXI, MS
 30 ° 23 ' 37.10 " N LAT. 89 ° 0 ' 2.70 " W LONG.

ANTENNA ID:	4.5M.	4.5 meters	ANDREW	ESA45
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL VIDEO CARRIER

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01163 E E950490 CBS Communications Services Inc.

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

CBS Communications Services Inc. requests modification of its fixed earth station in Philadelphia, PA to add six 4.5-meter antennas. The station will continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1
 LOCATION: 15555 HAMILTON ST., PHILADELPHIA, PHILADELPHIA, PA
 39 ° 57 ' 44.40 " N LAT. 75 ° 9 ' 51.50 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW	ES45MPJ
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL AUDIO, VIDEO, DATA
ANTENNA ID:	2	3.7 meters	DH SATELLITE	DHA2290
	3700.0000 - 4200.0000 MHz		36M0G7W	DIGITAL AUDIO, VIDEO, DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01174 E E000443 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Cleveland, OH to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1

LOCATION: 5800 SOUTH. MARGINAL ROAD, CAYAHOGA, CLEVELAND, OH

41 ° 31 ' 48.20 " N LAT.

81 ° 38 ' 58.50 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORP.	ESA45-46A
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital traffic, various FEC, modulations and data rates
	3700.0000 - 4200.0000 MHz		36M0F8F	video carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01178 E E000424 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Bismarck, ND to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna, and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1

LOCATION: 3130 EAST BROADWAY AVENUE, BURLEIGH, BISMARCK, ND

46 ° 48 ' 23.50 " N LAT.

100 ° 44 ' 39.50 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORP.	ESA45-46A
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital traffic, various FEC, modulations and data rates
	3700.0000 - 4200.0000 MHz		36M0F8F	ANAVideo carrierLOG VIDEO

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01182 E E100186 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Bangor, ME to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna, and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1
LOCATION: 371 TARGET INDUSTRIAL CIRCLE, PENOBSCOT, BANGOR, ME
44 ° 47 ' 19.70 " N LAT. 68 ° 49 ' 30.70 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA45-46A
	3700.0000 - 4200.0000 MHz		36M0F8F	video carrier
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital traffic, various FEC, modulations and data rates

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01185 E E100168 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Eden Prairie, MN to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna, and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1
LOCATION: 11358 VIKING DRIVE, HENNEPIN, EDEN PRAIRIE, MN
44 ° 51 ' 51.20 " N LAT. 93 ° 25 ' 13.80 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA45-46A
	3700.0000 - 4200.0000 MHz		36M0F8F	video carrier
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital traffic, various FEC, modulations and data rates

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01187 E E100187 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Alpena, MI to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna, and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1
LOCATION: 1390 N. BAGLEY STREET, ALPENA, ALPENA, MI
45 ° 3 ' 53.40 " N LAT. 83 ° 28 ' 22.20 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA45-46A
	3700.0000 - 4200.0000 MHz		36M0G7F	Digital traffic, various FEC, modulations and data rates
	3700.0000 - 4200.0000 MHz		36M0F8F	video carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01191 E E070213 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Presque Isle, ME to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna, and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1
LOCATION: 12 BREWER ROAD, AROOSTOOK, PRESQUE ISLE, ME
46 ° 43 ' 43.60 " N LAT. 68 ° 0 ' 2.30 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA45-46A	
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW	video carrier
	3700.0000 - 4200.0000 MHz		36M0G7F	0.00 dBW	Digital traffic, various FEC, modulations and data rates

Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180604-01255 E E100185 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Grand Rapids, MI to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna, and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1
LOCATION: 3117 PLAZA DRIVE N.E., KENT, GRAND RAPIDS, MI
43 ° 1 ' 5.20 " N LAT. 85 ° 37 ' 54.90 " W LONG.

ANTENNA ID:	4.5M.	4.5 meters	ANDREW CORPORATION	ESA45-46A
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3700.0000 - 4200.0000 MHz	36M0G7F	DIGITAL TRAFFIC, VARIOUS FEC, MODULATIONS AND DATA RATES
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3700.0000 - 4200.0000 MHz	36M0F8F	VIDEO CARRIER
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Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180606-01181 E E000412 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Oklahoma City, OK to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna, and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1

LOCATION: 1228 EAST WILSHIRE BLVD., OKLAHOMA, OKLAHOMA CITY, OK
35 ° 32 ' 58.20 " N LAT. 97 ° 29 ' 25.10 " W LONG.

ANTENNA ID: 1 4.5 meters ANDREW CORP. ESA45-46A

3700.0000 - 4200.0000 MHz	36M0G7F	Digital traffic, various FEC, modulations and data rates
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3700.0000 - 4200.0000 MHz	36M0F8F	video carrier
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Points of Communication:

1 - PERMITTED LIST - ()

SES-MOD-20180606-01189 E E000555 Fox Broadcasting Company

Application for Modification

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests modification of its fixed earth station in Wilkes-Barre, PA to change emission designators, change the existing 4.5-meter antenna and add a 4.5-meter antenna, and continue to communicate with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band.

SITE ID: 1

LOCATION: 1181 HIGHWAY 315, LUZERNE, WILKES-BARRE, PA
41 ° 15 ' 37.50 " N LAT. 75 ° 49 ' 4.50 " W LONG.

ANTENNA ID: 1 4.5 meters ANDREW CORP. ESA45-46A

3700.0000 - 4200.0000 MHz	36M0G7F	Digital traffic, various FEC, modulations and data rates
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3700.0000 - 4200.0000 MHz	36M0F8F	video carrier
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Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180501-00468 E E180161 Video Voice, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 77 Industrial Road,, Suffolk, Wainscott, NY

40 ° 57 ' 20.36 " N LAT.

72 ° 15 ' 14.20 " W LONG.

ANTENNA ID: 1 3.7 meters Dawnsat D37F48-4PC-5.5

3700.0000 - 4200.0000 MHz 36M0G7W

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180511-00654 E E180287 Fox Broadcasting Company

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

Fox Broadcasting Company requests registration of its fixed earth station in Columbus, OH that operates with Permitted List satellites in the 3700-4200 MHz (space-to-Earth) frequency band. See IBFS File No. SES-AMD-20180531-00907 for a corrected coordination report to the one originally filed in and removed from this application.

SITE ID: 1

LOCATION: 1261 Dublin Road, Franklin, Columbus, OH

39 ° 58 ' 32.40 " N LAT.

83 ° 3 ' 33.40 " W LONG.

ANTENNA ID: 1 4.5 meters Andrew Corporation ESA45-46A

3700.0000 - 4200.0000 MHz 36M0G7W digital data: various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180517-00715 E E180331 Minnesota Public Radio

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 27569 Everton Creek Road NE, Beltrami, Blackduck, MN

47 ° 42 ' 21.00 " N LAT.

94 ° 29 ' 9.00 " W LONG.

ANTENNA ID: 1 3.7 meters Prodelin 1374
3700.0000 - 4200.0000 MHz 150KF3D 0.00 dBW

Points of Communication:

1 - GALAXY 16 (S2687) - (99 W.L.)

SES-REG-20180530-00987 E E180552 WXLV Licensee, LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 3500 Myer Lee Drive,, Forsyth, Winston Salem, NC
36 ° 6 ' 40.00 " N LAT. 80 ° 10 ' 4.00 " W LONG.

ANTENNA ID: 1 4.5 meters Andrew Corporation ESA5-4HPA
3700.0000 - 4200.0000 MHz 36M0G7W Digital various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180602-01177 E E180668 WTOC License Subsidiary, LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 137 Uncle Sheds Road, Chatham, Savannah, GA
32 ° 3 ' 14.60 " N LAT. 81 ° 21 ' 0.80 " W LONG.

ANTENNA ID: 6.1M. 6.1 meters Scientific-Atlanta 6.1 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01136 E E180637 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 235 D 6th Street, Yavapi, Cottonwood, AZ
34 ° 44 ' 8.00 " N LAT. 112 ° 1 ' 20.20 " W LONG.

ANTENNA ID:	3.8 meter	3.8 meters	Patriot	3.8
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01147 E E180648 Oak Run Associates Ltd/ DECCA Cable

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 8968 SW 100th St (DECCA Cable), MARION, Ocala, FL
 29 ° 4 ' 37.22 " N LAT. 82 ° 16 ' 5.90 " W LONG.

ANTENNA ID:	Ant1	5 meters	DH Satellite	50DH1
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW
				Modulation and Services Digital Video
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW
				Modulation and services Analog Video with associated subcarriers

ANTENNA ID:	Ant2	4.5 meters	DH Satellite	45DH1
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW
				Modulation and Services Digital Video
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW
				Modulation and services Analog Video with associated subcarriers

ANTENNA ID:	Ant 3	4.5 meters	SSE	8345
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW
				Modulation and Services Digital Video
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW
				Modulation and services Analog Video with associated subcarriers

ANTENNA ID:	Ant4	3.1 meters	Patriot	3.1M
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW
				Modulation and Services Digital Video
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW
				Modulation and services Analog Video with associated subcarriers

ANTENNA ID:	Ant5	3.8 meters	ComTech	829066-G2RC
	3700.0000 - 4200.0000 MHz		30M0G7W	0.00 dBW
				Modulation and Services Digital Video
	3700.0000 - 4200.0000 MHz		36M0F8F	0.00 dBW
				Modulation and services Analog Video with associated subcarriers

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01164 E E180658 CBS Communications Services Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 413 Wigard St., Philadelphia, Philadelphia, PA
40 ° 2 ' 39.90 " N LAT. 75 ° 14 ' 25.80 " W LONG.

ANTENNA ID: 1 4.6 meters Andrew ES46P
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Audio, Video, Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01165 E E180659 CBS Communications Services Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: Commonwealth Dr., Burlington, Medford Township, NJ
39 ° 50 ' 19.80 " N LAT. 74 ° 49 ' 19.20 " W LONG.

ANTENNA ID: 1 10 meters Scientific Atlanta 8002A HP
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Audio, Video, Data

ANTENNA ID: 2 7 meters Scientific Atlanta 8010A
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Audio, Video, Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01166 E E180660 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 2030 Brasher Road, Harrison, Biloxi, MS
30 ° 25 ' 56.30 " N LAT. 88 ° 57 ' 23.40 " W LONG.

ANTENNA ID: 5 meter 5 meters ANTENNA TECH CORP SIMULSAT 5M

3700.0000 - 4200.0000 MHz

36M0G7W

Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01167 E E180661 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1001 Oakhurst Drive, Coahoma, Clarksdale, MS

34 ° 12 ' 38.10 " N LAT.

90 ° 35 ' 53.60 " W LONG.

ANTENNA ID: 5 meter

5 meters

ANTENNA TECH CORP

SIMULSAT 5M

3700.0000 - 4200.0000 MHz

36M0G7W

Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01168 E E180662 Columbus Broadcasting Corporation

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 7425 Pingue Drive (WCBZ Transmitter), Franklin, Worthington, OH

40 ° 6 ' 53.80 " N LAT.

82 ° 58 ' 54.50 " W LONG.

ANTENNA ID: Receive1

3 meters

Prodelin

3 Meter

3700.0000 - 4200.0000 MHz

36M0G7W

0.00 dBW

Digital

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01169 E E180663 Time Warner Cable Midwest LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: Longview Hts Rd, Athens, Athens, OH

39 ° 18 ' 53.40 " N LAT.

82 ° 4 ' 54.40 " W LONG.

ANTENNA ID: 1

5 meters

Antenna Technology Corp.

Simulsat 5M

	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	2	5 meters	Scientific-Atlanta		8008B
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	3	4.6 meters	Andrew		ESA46
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	4	4.6 meters	Scientific-Atlanta		8346
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	5	4.5 meters	Andrew		ESA45
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	6	4.5 meters	DH Satellite		4.5M
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	7	4.5 meters	Scientific-Atlanta		8345
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	8	3.8 meters	Comtech		934D0015-G5
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	9	3.7 meters	Prodelin		1374
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL
ANTENNA ID:	10	1.8 meters	Patriot		TX-INT180KU
	3700.0000 - 4200.0000 MHz		36M0G7W		DIGITAL

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180604-01173 E E180666 Lakeshore Communications, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1253 Scheuring Road, Suite B (WORQ Studio), Brown, De Pere, WI
 44 ° 25 ' 46.76 " N LAT. 88 ° 5 ' 35.64 " W LONG.

ANTENNA ID:	WORQ Studi	3.7 meters	DH Satellite	37DH1
	3700.0000 - 4200.0000 MHz		30M0G7W	Digital Video
	3700.0000 - 4200.0000 MHz		36M0F8F	Analog Video with associated subcarriers

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01157 E E180652 APPLIED COMMUNICATIONS TECHNOLOGY, INC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 72366 Hwy 283, Furnas, Arapahoe, NE
40 ° 18 ' 56.00 " N LAT.

99 ° 53 ' 43.00 " W LONG.

ANTENNA ID:	5M.	5 meters	Microdyne	PR 16.4
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01184 E E180672 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 615 Liberty Rd, Adam, Natchez, MS
31 ° 32 ' 6.00 " N LAT.

91 ° 20 ' 6.00 " W LONG.

ANTENNA ID:	4.5M.	4.5 meters	Scientific-Atlantic	4.5 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01188 E E180674 Stonecom Cookeville, LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 259 S. Willow Avenue, Putnam, Cookeville, TN
36 ° 9 ' 35.50 " N LAT. 85 ° 30 ' 50.30 " W LONG.

ANTENNA ID: 1 3.8 meters Comtech Antenna Systems 3.8 Meter PF
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Broadcast Audio Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01190 E E180675 Time Warner Cable Midwest LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 1105 W Market St, Hardeman, Bolivar, TN
35 ° 15 ' 25.10 " N LAT. 89 ° 0 ' 14.30 " W LONG.

ANTENNA ID: 1 5 meters Antenna Technology Corp. Simulsat 5M
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data

ANTENNA ID: 2 5 meters Scientific-Atlanta 8008B
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data

ANTENNA ID: 3 4.6 meters Andrew ESA46
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data

ANTENNA ID: 4 4.6 meters Scientific-Atlanta 8346
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data

ANTENNA ID: 5 4.5 meters Andrew ESA45
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data

ANTENNA ID: 6 4.5 meters DH Satellite 4.5M
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data

ANTENNA ID: 7 4.5 meters Scientific-Atlanta 8345
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video, Audio, Data

ANTENNA ID: 8 3.8 meters Comtech 934D0015-G5

3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 9	3.7 meters Prodelin	1374
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data
ANTENNA ID: 10	1.8 meters Patriot	TX-INT180KU
3700.0000 - 4200.0000 MHz	36M0G7W	Digital Video, Audio, Data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01192 E E180676 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 3052 N. 5th St, Stephens, Duncan, OK
 34 ° 32 ' 31.90 " N LAT. 97 ° 20 ' 44.30 " W LONG.

ANTENNA ID: 5 meter 5 meters Scientific-Atlantic 5 meter

3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01193 E E180677 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 900 Steuben St, Woodbury, Sioux City, IA
 42 ° 29 ' 57.90 " N LAT. 96 ° 23 ' 17.90 " W LONG.

ANTENNA ID: 5M. 5 meters ANTENNA TECH CORP SIMULSAT 5M

3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01194 E E180678 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 110 Pinta Dr., Calhoun, Port Lacava, TX
28 ° 35 ' 49.80 " N LAT. 96 ° 37 ' 7.80 " W LONG.

ANTENNA ID: 5M. 5 meters Patriot 5 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01221 E E180684 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 4701 E. 52nd Street, Ector, Odessa, TX
31 ° 54 ' 12.70 " N LAT. 102 ° 20 ' 20.10 " W LONG.

ANTENNA ID: 5M. 5 meters Scientific-Atlantic 5 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01223 E E180686 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 100 N. Victory Road, Madison, Norfolk, NE
42 ° 2 ' 1.10 " N LAT. 97 ° 23 ' 12.20 " W LONG.

ANTENNA ID: 5 meter 5 meters Comtech 5 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01225 E E180688 Skyline Tower LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 299 NW Skyline Blvd (Adjacent to Skyline), Multomah, Portland, OR
45 ° 31 ' 20.10 " N LAT. 122 ° 44 ' 46.30 " W LONG.

ANTENNA ID: DR 4.5 meters DH Satellite 4.5 Meter
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW Digital Broadcast

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180605-01227 E E180690 Mielke Broadcasting Group

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1142 Willagillespie Rd., #28 (KKNX/KEED Studios), Lane, Eugene, OR
44 ° 4 ' 19.50 " N LAT. 123 ° 6 ' 6.00 " W LONG.

ANTENNA ID: DISH-1 3.7 meters Prodelin 1374
3700.0000 - 4200.0000 MHz 36M0G7W QPSK modulation, digital audio and video data

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180606-01183 E E180671 Fox Broadcasting Company

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 9 Red Donley Plaza, Jefferson, Steubenville, OH
40 ° 20 ' 32.70 " N LAT. 80 ° 37 ' 9.60 " W LONG.

ANTENNA ID: 4.5M. 4.5 meters Andrew Corporation ESA45-46A
3700.0000 - 4200.0000 MHz 36M0G7W digital data: various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180606-01280 E E180699 Fox Broadcasting Company

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 301 Wythe Street, Portsmouth, Norfolk, VA

36 ° 49 ' 46.30 " N LAT.

76 ° 17 ' 55.70 " W LONG.

ANTENNA ID: 4.5M. 4.5 meters Andrew Corporation ESA45-46A

3700.0000 - 4200.0000 MHz 36M0G7W digital data: various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180606-01281 E E180700 Fox Broadcasting Company

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 2619 Western Blvd, Wake, Raleigh, NC

35 ° 46 ' 46.50 " N LAT.

78 ° 40 ' 28.80 " W LONG.

ANTENNA ID: 4.5M. 4.5 meters Andrew Corporation ESA45-46A

3700.0000 - 4200.0000 MHz 36M0G7W digital data: various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180606-01282 E E180701 Fox Broadcasting Company

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1440 Sepulveda, Los Angeles, Culver City, CA

34 ° 3 ' 3.30 " N LAT.

118 ° 26 ' 48.50 " W LONG.

ANTENNA ID: 4.5M. 4.5 meters Andrew Corporation ESA45-46A

3700.0000 - 4200.0000 MHz 36M0G7W digital data: various FEC, data rates and modulation

ANTENNA ID: 3.8-Comt 3.8 meters Comtech 3.8 Meter PF

3700.0000 - 4200.0000 MHz 36M0G7W Digital various FEC, data rates and modulation

ANTENNA ID: 3.8M-Patr 3.8 meters Patriot 3.8M

3700.0000 - 4200.0000 MHz 36M0G7W Digital various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180606-01288 E E180707 Fox Broadcasting Company

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 1220 W. WT Harris Boulevard, Meckleburg, Charlotte, NC
35 ° 18 ' 59.30 " N LAT. 80 ° 45 ' 54.80 " W LONG.

ANTENNA ID: 4.5M. 4.5 meters Andrew Corporation ESA45-46A

3700.0000 - 4200.0000 MHz 36M0G7W digital data: various FEC, data rates and modulation

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180607-01296 E E180709 OUR THREE SONS BROADCASTING LLP

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: Site 1

LOCATION: 142 N. Confederate Ave, York, Rock Hill, SC
34 ° 55 ' 25.96 " N LAT. 81 ° 1 ' 12.38 " W LONG.

ANTENNA ID: Site1 3.7 meters Prodelin 1375

3700.0000 - 4200.0000 MHz 36M0G7W Digital Video/Audio

Points of Communication:

Site 1 - PERMITTED LIST - ()

SES-REG-20180607-01297 E E180710 Cable One, Inc.

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 2208 Lawrence RD, Pontotoc, Ardmore, OK
34 ° 9 ' 54.50 " N LAT. 97 ° 9 ' 31.60 " W LONG.

ANTENNA ID: 3.8 meter 3.8 meters Patriot 3.8 meter
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180607-01298 E E180711 Citadel Communications, LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: LAFAYETTE RD, NEWPORT, TIVERTON, RI
41 ° 35 ' 49.00 " N LAT. 71 ° 11 ' 18.80 " W LONG.

ANTENNA ID: 2 4.5 meters PATRIOT 4.5 M
3700.0000 - 4200.0000 MHz 36M0G7W DIGITAL VIDEO AUDIO AND DATA

ANTENNA ID: 1 4.5 meters ANDREW 4.5 M
3700.0000 - 4200.0000 MHz 36M0G7W DIGITAL VIDEO AUDIO AND DATA

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180608-01305 E E180718 Telecommunications Management, LLC d/b/a NewWave Communications

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 3000 N. Westwood Blvd, Butler, Poplar Bluff, MO
36 ° 47 ' 31.60 " N LAT. 90 ° 26 ' 6.10 " W LONG.

ANTENNA ID: 5 meter 5 meters Antenna Tech Corp Simulsat 5M
3700.0000 - 4200.0000 MHz 36M0G7W Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180615-01149 E E180650 Comcast Cable Communications Management, LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 73 Rock Avenue, Union, Plainfield, NJ
40 ° 35 ' 57.00 " N LAT.

74 ° 27 ' 27.00 " W LONG.

ANTENNA ID:	3.8M.	3.8 meters	DM	3.8 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier
ANTENNA ID:	5M.	5 meters	DM	5 Meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180615-01170 E E180664 Comcast Cable Communications Management, LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 660 Munford Road, Charles City, Providence Forge, VA
37 ° 23 ' 5.80 " N LAT.

77 ° 3 ' 36.10 " W LONG.

ANTENNA ID:	1	3.8 meters	Patriot	3.8 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180615-01219 E E180682 Comcast Cable Communications Management, LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: Wilson Street, Preston, Rowlesburg, WV
39 ° 20 ' 35.90 " N LAT.

79 ° 40 ' 46.50 " W LONG.

ANTENNA ID:	3.8M.	3.8 meters	Patriot	3.8 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

ANTENNA ID:	3.7M.	3.7 meters	Prodelin	3.7 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

SES-REG-20180615-01230 E E180693 Comcast Cable Communications Management, LLC

Registration

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 2215 N DuPont Hwy, New Castle, Wilmington, DE

39 ° 42 ' 12.00 " N LAT.

75 ° 34 ' 20.00 " W LONG.

ANTENNA ID:	3.8mC	3.8 meters	Comtech	3.8 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

ANTENNA ID:	3.8mP	3.8 meters	Patriot	3.8 meter
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video Carrier

Points of Communication:

1 - PERMITTED LIST - ()

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