



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-00753

Wednesday September 28, 2005

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-20050815-01101 E E050008 EchoStar Satellite Operating Corporation

Amendment

Grant of Authority

Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: KA2, KA3, KA4

LOCATION: 530 EchoStar Drive, Laramie, Cheyenne, WY

41 ° 7 ' 54.50 " N LAT.

104 ° 44 ' 13.30 " W LONG.

ANTENNA ID:	KA2	9 meters	Vertex	9.0 Meter
	29500.0000 - 30000.0000 MHz	32M0G7D	63.00 dBW	Data Carrier Clear Sky Power Level
	29500.0000 - 30000.0000 MHz	300KG7D	42.70 dBW	Data Carrier Clear Sky Power Level
	29500.0000 - 30000.0000 MHz	1M50G7D	49.70 dBW	Data Carrier Clear Sky Power Level
	29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Powel Level
	29500.0000 - 30000.0000 MHz	32M0G7D	84.20 dBW	Data Carrier Rain Sky Powel Level
	29500.0000 - 30000.0000 MHz	300KG7D	63.90 dBW	Data Carrier Rain Sky Powel Level
	29500.0000 - 30000.0000 MHz	1M50G7D	70.90 dBW	Data Carrier Rain Sky Powel Level
	19700.0000 - 20200.0000 MHz	32M0G7D		Data Carrier
	19700.0000 - 20200.0000 MHz	300KG7D		Data Carrier

19700.0000 - 20200.0000 MHz	1M50G7D		Data Carrier
19700.0000 - 20200.0000 MHz	60M0G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG2D		Data Carrier
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level
29500.0000 - 30000.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
ANTENNA ID: KA3	9 meters	Vertex	9.0 Meter
29500.0000 - 30000.0000 MHz	32M0G7D	63.00 dBW	Data Carrier Clear Sky Power Level
29500.0000 - 30000.0000 MHz	300KG7D	42.70 dBW	Data Carrier Clear Sky Power Level
29500.0000 - 30000.0000 MHz	1M050G7D	49.70 dBW	Data Carrier Clear Sky Power Level
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Power Level
29500.0000 - 30000.0000 MHz	32M0G7D	84.20 dBW	Data Carrier Rain Sky Power Level
29500.0000 - 30000.0000 MHz	300KG7D	63.90 dBW	Data Carrier Rain Sky Power Level
29500.0000 - 30000.0000 MHz	1M50G7D	70.90 dBW	Data Carrier Rain Sky Power Level
19700.0000 - 20200.0000 MHz	32M0G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG7D		Data Carrier
19700.0000 - 20200.0000 MHz	1M50G7D		Data Carrier
19700.0000 - 20200.0000 MHz	60M0G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG2D		Data Carrier
29500.0000 - 30000.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level
ANTENNA ID: KA4	9 meters	Vertex	9 Meter
29500.0000 - 30000.0000 MHz	32M0G7D	63.00 dBW	Data Carrier Clear Sky Power Level
29500.0000 - 30000.0000 MHz	300KG7D	42.70 dBW	Data Carrier Clear Sky Power Level
29500.0000 - 30000.0000 MHz	1M50G7D	49.70 dBW	Data Carrier Clear Sky Power Level
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Power Level

29500.0000 - 30000.0000 MHz	32M0G7D	84.20 dBW	Data Carrier Rain Sky Power Level
29500.0000 - 30000.0000 MHz	300KG7D	63.90 dBW	Data Carrier Rain Sky Power Level
29500.0000 - 30000.0000 MHz	1M50G7D	70.90 dBW	Data Carrier Rain Sky Power Level
19700.0000 - 20200.0000 MHz	32M0G7D		Data Carrier
19700.0000 - 20200.0000 MHz	1M50G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG2D		Data Carrier
19700.0000 - 20200.0000 MHz	60M0G7D		Data Carrier
29500.0000 - 30000.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level

Points of Communication:

SES-AMD-20050815-01102 E E050045 EchoStar Satellite Operating Corporation

Amendment

Grant of Authority

Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: GKA1, GKA2, GKA3

LOCATION: 801 North America Sky Blvd., Maricopa, Gilbert, AZ

33 ° 21 ' 55.60 " N LAT.

111 ° 48 ' 49.10 " W LONG.

ANTENNA ID: GKA1 9 meters Vertex 9 Meter

28400.0000 - 28600.0000 MHz	32M0G7D	63.00 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	42.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	49.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Power Level
18600.0000 - 18800.0000 MHz	32M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG7D		Data Carrier
18600.0000 - 18800.0000 MHz	1M50G7D		Data Carrier

28400.0000 - 28600.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level
18600.0000 - 18800.0000 MHz	60M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG2D		Data Carrier
ANTENNA ID: GKA2	9 meters	Vertex	9 Meter
28400.0000 - 28600.0000 MHz	32M0G7D	63.00 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	42.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	49.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	32M0G7D	84.20 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	63.90 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	70.90 dBW	Data Carrier Rain Sky Power Level
18600.0000 - 18800.0000 MHz	32M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG7D		Data Carrier
18600.0000 - 18800.0000 MHz	1M50G7D		Data Carrier
28400.0000 - 28600.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
18600.0000 - 18800.0000 MHz	60M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG2D		Data Carrier
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level
ANTENNA ID: GKA3	9 meters	Vertex	9 Meter
28400.0000 - 28600.0000 MHz	32M0G7D	63.00 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	42.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	49.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	32M0G7D	84.20 dBW	Data Carrier Rain Sky Power Level

28400.0000 - 28600.0000 MHz	300KG7D	63.90 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	70.90 dBW	Data Carrier Rain Sky Power Level
18600.0000 - 18800.0000 MHz	32M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG7D		Data Carrier
18600.0000 - 18800.0000 MHz	1M50G7D		Data Carrier
18600.0000 - 18800.0000 MHz	60M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG2D		Data Carrier
28400.0000 - 28600.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level

Points of Communication:

SES - LIC - 20050610 - 00723 E E050008 EchoStar Satellite L.L.C.

Application for Authority

09/27/2005 - 09/27/2020

Grant of Authority

Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: KA2, KA3, KA4

LOCATION: 530 EchoStar Drive, Laramie, Cheyenne, WY

41 ° 7 ' 54.50 " N LAT.

104 ° 44 ' 13.30 " W LONG.

ANTENNA ID: KA2 9 meters Vertex 9.0 Meter

29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	32M0G7D	63.00 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	300KG7D	42.70 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	1M50G7D	49.70 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	32M0G7D	84.20 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	300KG7D	63.90 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	1M50G7D	70.90 dBW	Data Carrier (Rain Sky Power Level)
19700.0000 - 20200.0000 MHz	32M0G7D		Data Carrier

19700.0000 - 20200.0000 MHz	300KG7D		Data Carrier
19700.0000 - 20200.0000 MHz	1M050G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG2D		Data Carrier
19700.0000 - 20200.0000 MHz	60M0G7D		Data Carrier
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
ANTENNA ID: KA3	9 meters	Vertex	9.0 Meter
29500.0000 - 30000.0000 MHz	32M0G7D	63.00 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	300KG7D	42.70 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	1M50G7D	49.70 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	32M0G7D	84.20 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	300KG7D	63.90 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	1M50G7D	70.90 dBW	Data Carrier (Rain Sky Power Level)
19700.0000 - 20200.0000 MHz	32M0G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG7D		Data Carrier
19700.0000 - 20200.0000 MHz	1M050G7D		Data Carrier
19700.0000 - 20200.0000 MHz	60M0G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG2D		Data Carrier
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
ANTENNA ID: KA4	9 meters	Vertex	9 Meter
29500.0000 - 30000.0000 MHz	32M0G7D	63.00 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	300KG7D	42.70 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	1M050G7D	49.70 dBW	Data Carrier (Clear Sky Power Level)

29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	32M0G7D	84.20 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	300KG7D	63.90 dBW	Data Carrier (Rain Sky Power Level)
29500.0000 - 30000.0000 MHz	1M50G7D	70.90 dBW	Data Carrier (Rain Sky Power Level)
19700.0000 - 20200.0000 MHz	32M0G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG7D		Data Carrier
19700.0000 - 20200.0000 MHz	1M50G7D		Data Carrier
19700.0000 - 20200.0000 MHz	60M0G7D		Data Carrier
19700.0000 - 20200.0000 MHz	300KG2D		Data Carrier
29500.0000 - 30000.0000 MHz	60M0G7D	65.70 dBW	Data Carrier (Clear Sky Power Level)
29500.0000 - 30000.0000 MHz	1M50G2D	86.90 dBW	Data Carrier

Points of Communication:

KA2, KA3, KA4 - AMC-15 - (105 W.L.)

KA2, KA3, KA4 - AMC-16 - (85 W.L.)

KA2, KA3, KA4 - AMC-16 - (97 W.L.)

KA2, KA3, KA4 - ECHOSTAR -9 - (121 W.L.)

SES-LIC-20050610-00724 E E050045 EchoStar Satellite L.L.C.

Application for Authority

09/27/2005 - 09/27/2020

Grant of Authority

Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Direct to Home Fixed Satellite, Fixed Satellite Service

SITE ID: GKA1, GKA2, GKA3

LOCATION: 801 North America Sky Blvd., Maricopa, Gilbert, AZ

33 ° 21 ' 55.60 " N LAT.

111 ° 48 ' 49.10 " W LONG.

ANTENNA ID: GKA1

9 meters

Vertex

9 Meter

28400.0000 - 28600.0000 MHz

300KG7D

42.70 dBW

Data Carrier Clear Sky Power Level

28400.0000 - 28600.0000 MHz

32M0G7D

63.00 dBW

Data Carrier Clear Sky Power Level

28400.0000 - 28600.0000 MHz	1M50G7D	49.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	32M0G7D	84.20 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	63.90 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	70.90 dBW	Data Carrier Rain Sky Power Level
18600.0000 - 18800.0000 MHz	32M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG7D		Data Carrier
18600.0000 - 18800.0000 MHz	1M50G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG2D		Data Carrier
18600.0000 - 18800.0000 MHz	60M0G7D		Data Carrier
28400.0000 - 28600.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level
ANTENNA ID: GKA2	9 meters	Vertex	9 Meter
28400.0000 - 28600.0000 MHz	32M0G7D	63.00 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	42.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	49.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	32M0G7D	84.20 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	63.90 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	70.90 dBW	Data Carrier Rain Sky Power Level
18600.0000 - 18800.0000 MHz	32M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG7D		Data Carrier
18600.0000 - 18800.0000 MHz	1M50G7D		Data Carrier
18600.0000 - 18800.0000 MHz	60M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG2D		Data Carrier

28400.0000 - 28600.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level
ANTENNA ID: GKA3	9 meters	Vertex	9 Meter
28400.0000 - 28600.0000 MHz	32M0G7D	63.00 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	42.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	49.70 dBW	Data Carrier Clear Sky Power Level
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	32M0G7D	84.20 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	300KG7D	63.90 dBW	Data Carrier Rain Sky Power Level
28400.0000 - 28600.0000 MHz	1M50G7D	70.90 dBW	Data Carrier Rain Sky Power Level
18600.0000 - 18800.0000 MHz	32M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG7D		Data Carrier
18600.0000 - 18800.0000 MHz	1M50G7D		Data Carrier
18600.0000 - 18800.0000 MHz	60M0G7D		Data Carrier
18600.0000 - 18800.0000 MHz	300KG2D		Data Carrier
28400.0000 - 28600.0000 MHz	1M50G2D	86.90 dBW	Data Carrier
28400.0000 - 28600.0000 MHz	60M0G7D	65.70 dBW	Data Carrier Clear Sky Power Level

Points of Communication:

GKA1, GKA2, GKA3 - AMC-15 - (105 W.L.)

GKA1, GKA2, GKA3 - AMC-16 - (85 W.L.)

GKA1, GKA2, GKA3 - AMC-16 - (97 W.L.)

GKA1, GKA2, GKA3 - ECHOSTAR -9 - (121 W.L.)

SES-LIC-20050801-01012 E E050236 AT&T CORP.

Application for Authority

09/27/2005 - 09/27/2020

Grant of Authority

Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 12200 SUNRISE VALLEY DRIVE, FAIRFAX, RESTON, VA

38 ° 57 ' 0.00 " N LAT.

77 ° 22 ' 0.00 " W LONG.

ANTENNA ID: 1	2.4 meters	VERTEX	2.4M DPVK
11700.0000 - 12200.0000 MHz	4M00G2W		QPSK (SCPC COMPRESSED DIGITAL VIDEO)
14000.0000 - 14500.0000 MHz	4M00G2W	63.60 dBW	QPSK (SCPC COMPRESSED DIGITAL VIDEO)

Points of Communication:

1 - ALSAT - (ALSAT)

SES-LIC-20050816-01109 E E940246 ASCENT MEDIA NETWORK SERVICES, LLC

Application for Authority

09/26/2005 - 09/26/2020

Grant of Authority

Date Effective: 09/26/2005

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 2813 West Alameda, Los Angeles, Burbank, CA

34 ° 9 ' 27.00 " N LAT.

118 ° 19 ' 55.30 " W LONG.

ANTENNA ID: 1	10 meters	Scientific-Atlanta	8002
3700.0000 - 4200.0000 MHz	4M50G1W		digital video and audio
3700.0000 - 4200.0000 MHz	36M0G7W		digital video and audio
5925.0000 - 6425.0000 MHz	36M0F3F	81.00 dBW	analog video with associated audio subcarriers
5925.0000 - 6425.0000 MHz	26M0G7W	79.50 dBW	digital video and audio
5925.0000 - 6425.0000 MHz	36M0G7W	79.50 dBW	digital video and audio
3700.0000 - 4200.0000 MHz	26M0G7W		digital video and audio
5925.0000 - 6425.0000 MHz	9M00G1W	79.50 dBW	digital video and audio
3700.0000 - 4200.0000 MHz	9M00G1W		digital video and audio

3700.0000 - 4200.0000 MHz	36M0F3F		Analog video with associated audio subcarriers
5925.0000 - 6425.0000 MHz	4M50G1W	79.50 dBW	digital video and audio
ANTENNA ID: 2	9.2 meters	Satcom	920CS
3700.0000 - 4200.0000 MHz	36M0F3F		analog video with associated audio subcarriers
5925.0000 - 6425.0000 MHz	26M0G7W	79.50 dBW	digital video and audio
5925.0000 - 6425.0000 MHz	4M50G1W	79.50 dBW	digital video and audio
3700.0000 - 4200.0000 MHz	26M0G7W		digital video and audio
3700.0000 - 4200.0000 MHz	36M0G7W		digital video and audio
5925.0000 - 6425.0000 MHz	9M00G1W	79.50 dBW	digital video and audio
5925.0000 - 6425.0000 MHz	36M0F3F	80.00 dBW	analog video with associated audio subcarriers
3700.0000 - 4200.0000 MHz	9M00G1W		digital video and audio
3700.0000 - 4200.0000 MHz	4M50G1W		digital video and audio
5925.0000 - 6425.0000 MHz	36M0G7W	79.50 dBW	digital video and audio
ANTENNA ID: 3	5.5 meters	Comtech	Offsat
3700.0000 - 4200.0000 MHz	4M50G1W		digital video and audio
5925.0000 - 6425.0000 MHz	36M0F3F	72.40 dBW	analog video with associated audio subcarriers
5925.0000 - 6425.0000 MHz	26M0G7W	72.40 dBW	digital video and audio
5925.0000 - 6425.0000 MHz	9M00G1W	72.40 dBW	digital video and audio
5925.0000 - 6425.0000 MHz	36M0G7W	72.40 dBW	digital video and audio
3700.0000 - 4200.0000 MHz	26M0G7W		digital video and audio
3700.0000 - 4200.0000 MHz	36M0G7W		digital video and audio
3700.0000 - 4200.0000 MHz	9M00G1W		digital video and audio
3700.0000 - 4200.0000 MHz	36M0F3F		analog video with associated audio subcarriers

5925.0000 - 6425.0000 MHz	4M50G1W	72.40 dBW	digital video and audio
Points of Communication:			
1 - ALSAT - (ALSAT)			
SES-LIC-20050817-01113	E E050246	WJBK License, Inc.	
Application for Authority			09/26/2005 - 09/26/2020
Grant of Authority			Date Effective: 09/26/2005
Class of Station: Temporary Fixed Earth Station			
Nature of Service: Domestic Fixed Satellite Service			
SITE ID: 1			
LOCATION: VARIOUS			
ANTENNA ID: 1 2.4 meters Andrew ESA-24VSM-KU			
14000.0000 - 14500.0000 MHz	36M0F8F	75.80 dBW	VIDEO AND SUBCARRIERS
Points of Communication:			
1 - ALSAT - (ALSAT)			
SES-MFS-20050721-00951	E E000166	HNS License Sub, LLC	
Modification			09/13/2000 - 09/13/2010
Grant of Authority			Date Effective: 09/22/2005
Class of Station: VSAT Network			
Nature of Service: Domestic Fixed Satellite Service, Fixed Satellite Service, International Fixed Satellite Service			
SITE ID: TF TR 1.2M			
LOCATION: CONUS, AK, HI, PR, VI 1.2 M (50,000 UNITS)			
ANTENNA ID: TF TR 1.2 1.2 meters PRODELIN 1134			
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER

14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	30M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST 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	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
SITE ID: R1.2M			
LOCATION: VSAT 1.2M (10 UNITS) CONUS, AK, HI, PR, VI			
ANTENNA ID: R1.2	1.2 meters	PRODELIN	1134
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
SITE ID: Tx & Rx- 0.74M			
LOCATION: VSAT 0.74M (98 x 56 cm) (350,000 UNITS), & VI, CONUS, AK, HI, PR			
ANTENNA ID: TR74	0.74 meters	PRODELIN	HANT-91TR

14000.0000 - 14500.0000 MHz	200KG7D	39.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	42.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D	0.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	42.00 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	42.00 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
SITE ID: Rx-only- 0.74M			
LOCATION: VSAT 0.74M (98 x 56 cm) (1,000,000 UNITS), & VI, CONUS, AK, HI, PR			
ANTENNA ID: RO74	0.74 meters	PRODELIN	HANT-91R
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
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 CORP.	1134
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST 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	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
SITE ID: TR 1.8M			
LOCATION: VSAT 1.8M (50,000 UNITS) CONUS, AK, HI, VI, PR			
ANTENNA ID: TR 1.8	1.8 meters	PRODELIN CORP.	1184
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER

14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, 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
14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	49.70 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
SITE ID: HUB-B			
LOCATION: 7.6M (HUB) 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD			
39 ° 10 ' 46.00 " N LAT.		77 ° 14 ' 41.00 " W LONG.	
ANTENNA ID: HubB7.6	7.6 meters	ANDREW CORP.	ES76K-1
14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	BPSK, 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	0.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN 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
SITE ID: TR 1.0M			
LOCATION: VSAT 1.0M (135 cm x 58 cm) (100,000 UNITS), CONUS, AK,HI,VI,PR			
ANTENNA ID: TR 1.0	1 meters	PRODELIN CORP. (135 cm x 58 cm)	1102
14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARREIR
14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.00 dBW	BPSK OR MSK, DATA 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

11700.0000 - 11200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
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SITE ID: TR 98CM

LOCATION: VSAT 0.98M (60,000 UNITS), CONUS, AK, HI, PR,VI

ANTENNA ID: TR98	0.98 meters	PRODELIN	9008668
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14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
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11700.0000 - 12200.0000 MHz	24M0G7D	0.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
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ANTENNA ID: TR 98 CM	0.98 meters	PRODELIN	9008668
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14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
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SITE ID: TF TR 98CM

LOCATION: VSAT 0.98M temporary-fixed (54,000 UNITS), CONUS, AK, HI, PR,VI

ANTENNA ID: TF TR 98	0.98 meters	PRODELIN	9008668
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14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	400KG7D	44.30 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
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11700.0000 - 12200.0000 MHz	24M0G7D	0.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
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11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST 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
14000.0000 - 14500.0000 MHz	800KG7D	44.30 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: TF TR 74CM

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

ANTENNA ID: TF TR 74	0.74 meters	PRODELIN	HANT-91TR
14000.0000 - 14500.0000 MHz	200KG7D	39.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	39.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST 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
14000.0000 - 14500.0000 MHz	400KG7W	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	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7W		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: HUB-A

LOCATION: 7.6M.(HUB) 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD
39 ° 10 ' 49.00 " N LAT. 77 ° 14 ' 47.00 " W LONG.

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

14000.0000 - 14500.0000 MHz	24M0G7D	78.00 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	78.00 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	47.90 dBW	BPSK, 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		OQPSK, DIGITAL, 128 KSPS, RETURN 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

SITE ID: Rx-only- 0.66M

LOCATION: VSAT 0.66M (49 x 89 cm) (1,500,000 UNITS), & VI, CONUS, AK, HI, PR

ANTENNA ID:	RO/0.66M	0.66 meters	CHANNEL MASTER	646101
	11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
SITE ID:	TR 2.4M			
LOCATION:	VSAT 2.4M (11,000 units), CONUS, AK, HI, VI, P			
ANTENNA ID:	TR 2.4M	2.4 meters	PRODELIN CORP.	1244
	14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, 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

14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	52.20 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
SITE ID: HUB-C 7.6M			
LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD			
39 ° 10 ' 43.00 " N LAT.		77 ° 14 ' 51.00 " W LONG.	
ANTENNA ID: HubC 7.6M	7.6 meters	NEC	APS-12/14-F64A
14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	BPSK, 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	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST 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
SITE ID: HUB-D 7.6M			
LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD			
39 ° 10 ' 42.00 " N LAT.		77 ° 14 ' 53.00 " W LONG.	
ANTENNA ID: HubD 7.6M	7.6 meters	NEC	APS-12/14-F0764A
14000.0000 - 14500.0000 MHz	400KG7D	59.00 dBW	BPSK, 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	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER

14000.0000 - 14500.0000 MHz	12M0G7D	73.80 dBW	QPSK, DATA, 1024 KSPS, MULTIMEDIA BROADCAST 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
SITE ID: HUB-E 6.1M			
LOCATION: 11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD			
39 ° 10 ' 46.00 " N LAT.		77 ° 14 ' 49.00 " W LONG.	
ANTENNA ID: HubE 6.1M	6.1 meters	VERTEX	6.1KPK
14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	BPSK, 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	79.70 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	97.70 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DATA, 128 KSPS, RETURN 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, 512 KSPS, INROUTE CARRIER
SITE ID:	HUB-F 5.6M		
LOCATION:	11717 EXPLORATION LANE, MONTGOMERY, GERMANTOWN, MD		
	39 ° 10 ' 46.00 " N LAT.	77 ° 14 ' 54.00 " W LONG.	
ANTENNA ID:	HubF 5.6M	5.6 meters	ANDREW ES56-1
14000.0000 - 14500.0000 MHz	400KG7D	52.90 dBW	BPSK, 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	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	77.70 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DATA, 128 KSPS, RETURN 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
SITE ID:	HUB-G 4.6M		
LOCATION:	10450 PACIFIC CENTER COURT, SAN DIEGO, SAN DIEGO, CA		
	32 ° 54 ' 31.00 " N LAT.	117 ° 11 ' 26.00 " W LONG.	
ANTENNA ID:	HubG 4.6M	4.6 meters	VERTEX 4.57KPK

14000.0000 - 14500.0000 MHz	400KG7D	57.50 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	57.50 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE 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

SITE ID: TR 75 CM

LOCATION: CONUS, AK, HI, PR, VI (10,000 .75CM UNITS)

ANTENNA ID: TR 75 CM 0.75 meters HUGHES NETWORK SYSTEMS 3000179

14000.0000 - 14500.0000 MHz	200KG7D	38.80 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	38.80 dBW	BPSK OR MSK, DATA 256 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, 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

SITE ID: MESH 3.5M

LOCATION: 11717 EXPLORATION LANE (5,000 3.5M UNITS), CONUS, AK, HI, VI, P

ANTENNA ID: MESH 3.5M 3.5 meters COMTECH 846400G1

14000.0000 - 14500.0000 MHz	2M46G7D	66.20 dBW	BPSK OR QPSK, DATA, MESH CARRIER
11700.0000 - 12200.0000 MHz	2M46G7D		BPSK OR QPSK, DATA, MESH CARRIER

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

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 QPSK, DATA, MESH CARRIER
	11700.0000 - 12200.0000 MHz	156KG7D		BPSK OR QPSK, DATA, MESH CARRIER

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

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 QPSK, DATA, MESH CARRIER
	11700.0000 - 12200.0000 MHz	307KG7D		BPSK OR QPSK, DATA, MESH CARRIER

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

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 QPSK, DATA, MESH CARRIER
	11700.0000 - 12200.0000 MHz	156KG7D		BPSK OR QPSK, DATA, MESH CARRIER

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

ANTENNA ID:	TR 74-2	0.74 meters	RAVEN	HNS-1035610
	11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA
	11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA
	11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA
	11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA

14000.0000 - 14500.0000 MHz	200KG7D	38.70 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

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

ANTENNA ID: TFTR 74-2C	0.74 meters	RAVEN	HNS-1035610
11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA
14000.0000 - 14500.0000 MHz	200KG7D	38.70 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: TR 98CM
LOCATION: CONUS, AK, HI, VI, PR 60,000 (.98 METER ANTENNAS)

Points of Communication:

- HUB-A - ALSAT - (ALSAT)
- HUB-A - GALAXY 10R - (123 W.L.)
- HUB-A - HORIZONS 1 - (127 DEG WL)

HUB-A - IA-8 - (89 W.L.)

HUB-A - SATMEX-5 - (116.8 W.L.)

HUB-B - ALSAT - (ALSAT)

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

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

HUB-B - IA-8 - (89 W.L.)

HUB-B - SATMEX-5 - (116.8 W.L.)

HUB-C 7.6M - ALSAT - (ALSAT)

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

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

HUB-C 7.6M - IA-8 - (89 W.L.)

HUB-C 7.6M - SATMEX-5 - (116.8 W.L.)

HUB-D 7.6M - ALSAT - (ALSAT)

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

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

HUB-D 7.6M - IA-8 - (89 W.L.)

HUB-D 7.6M - SATMEX-5 - (116.8 W.L.)

HUB-E 6.1M - ALSAT - (ALSAT)

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

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

HUB-E 6.1M - IA-8 - (89 W.L.)

HUB-E 6.1M - SATMEX-5 - (116.8 W.L.)

HUB-F 5.6M - ALSAT - (ALSAT)

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

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

HUB-F 5.6M - IA-8 - (89 W.L.)

HUB-F 5.6M - SATMEX-5 - (116.8 W.L.)

HUB-G 4.6M - ALSAT - (ALSAT)

HUB-G 4.6M - SATMEX-5 - (116.8 W.L.)

MESH 1.2M - ALSAT - (ALSAT)

MESH 1.8M - ALSAT - (ALSAT)

MESH 2.4M - ALSAT - (ALSAT)

R1.2M - SATMEX-5 - (116.8 W.L.)

Rx-only- 0.66M - SATMEX-5 - (116.8 W.L.)

Rx-only- 0.74M - SATMEX-5 - (116.8 W.L.)

TF TR 1.2M - ALSAT - (ALSAT)

TF TR 1.2M - SATMEX-5 - (116.8 W.L.)

TF TR 74CM - AMC-3 - (87 W.L.)

TF TR 74CM - AMC-4 (formerly GE-4 - (101 W.L.)

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

TF TR 74CM - GALAXY 4R - (99 W.L.)

TF TR 74CM - GALAXY III-C - (95 W.L.)

TF TR 74CM - GALAXY XI - (91 W.L.)

TF TR 74CM - HORIZONS 1 - (127 DEG WL)

TF TR 74CM - IA-8 - (89 W.L.)

TF TR 74CM - INTELSAT AMERICAS 5 - (97 W.L.)

TF TR 74CM - SATMEX-5 - (116.8 W.L.)

TF TR 98CM - AMC-3 - (87 W.L.)

TF TR 98CM - AMC-4 (formerly GE-4 - (101 W.L.)

TF TR 98CM - AMC-6 - (72 W.L.)

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

TF TR 98CM - GALAXY 4R - (99 W.L.)

TF TR 98CM - GALAXY III-C - (95 W.L.)

TF TR 98CM - GALAXY XI - (91 W.L.)

TF TR 98CM - HORIZONS 1 - (127 DEG WL)

TF TR 98CM - IA-8 - (89 W.L.)

TF TR 98CM - INTELSAT AMERICAS 5 - (97 W.L.)

TF TR 98CM - SATMEX-5 - (116.8 W.L.)

TFTR 74-2CM - AMC-3 - (87 W.L.)

TFTR 74-2CM - AMC-4 (formerly GE-4 - (101 W.L.)

TFTR 74-2CM - AMC-6 - (72 W.L.)

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

TFTR 74-2CM - GALAXY 4R - (99 W.L.)

TFTR 74-2CM - GALAXY III-C - (95 W.L.)

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

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

TFTR 74-2CM - IA-8 - (89 W.L.)

TFTR 74-2CM - INTELSAT AMERICAS 5 - (97 W.L.)

TFTR 74-2CM - SATMEX-5 - (116.8 W.L.)

TR 1.0M - ALSAT - (ALSAT)

TR 1.0M - SATMEX-5 - (116.8 W.L.)

TR 1.2M - ALSAT - (ALSAT)

TR 1.2M - SATMEX-5 - (116.8 W.L.)

TR 1.8M - ALSAT - (ALSAT)

TR 1.8M - SATMEX-5 - (116.8 W.L.)

TR 2.4M - ALSAT - (ALSAT)

TR 2.4M - SATMEX-5 - (116.8 W.L.)

TR 74-2 CM - AMC-3 - (87 W.L.)

TR 74-2 CM - AMC-4 (formerly GE-4 - (101 W.L.)

TR 74-2 CM - AMC-6 - (72 W.L.)

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

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

TR 74-2 CM - GALAXY 4R - (99 W.L.)

TR 74-2 CM - GALAXY III-C - (95 W.L.)

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

TR 74-2 CM - IA-8 - (89 W.L.)

TR 74-2 CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 74-2 CM - SATMEX-5 - (116.8 W.L.)

TR 75 CM - ALSAT - (ALSAT)

TR 98CM - AMC-3 - (87 W.L.)

TR 98CM - AMC-3 - (87 W.L.)

TR 98CM - AMC-4 (formerly GE-4 - (101 W.L.)

TR 98CM - AMC-6 - (72 W.L.)

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

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

TR 98CM - GALAXY 4R - (99 W.L.)

TR 98CM - GALAXY 4R - (99 W.L.)

TR 98CM - GALAXY III-C - (95 W.L.)

TR 98CM - GALAXY III-C - (95 W.L.)

TR 98CM - GALAXY XI - (91 W.L.)

TR 98CM - GALAXY XI - (91 W.L.)

TR 98CM - HORIZONS 1 - (127 DEG WL)

TR 98CM - HORIZONS 1 - (127 DEG WL)

TR 98CM - IA-8 - (89 W.L.)

TR 98CM - IA-8 - (89 W.L.)

TR 98CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 98CM - SATMEX-5 - (116.8 W.L.)

TR 98CM - SATMEX-5 - (116.8 W.L.)

Tx & Rx- 0.74M - AMC-3 - (87 W.L.)

Tx & Rx- 0.74M - AMC-4 (formerly GE-4 - (101 W.L.)

Tx & Rx- 0.74M - AMC-6 - (72 W.L.)

Tx & Rx- 0.74M - GALAXY 10R - (123 W.L.)

Tx & Rx- 0.74M - GALAXY 4R - (99 W.L.)

Tx & Rx- 0.74M - GALAXY III-C - (95 W.L.)

Tx & Rx- 0.74M - GALAXY XI - (91 W.L.)

Tx & Rx- 0.74M - HORIZONS 1 - (127 DEG WL)

Tx & Rx- 0.74M - IA-8 - (89 W.L.)

Tx & Rx- 0.74M - INTELSAT AMERICAS 5 - (97 W.L.)

Tx & Rx- 0.74M - SATMEX-5 - (116.8 W.L.)

SES-MFS-20050721-00952 E E940460 HNS License Sub, LLC

Modification

12/23/2004 - 12/23/2019

Grant of Authority

Date Effective: 09/22/2005

Class of Station: VSAT Network

Nature of Service: Domestic Fixed Satellite Service, Fixed Satellite Service, International Fixed Satellite Service

SITE ID: HUB 4.6M

LOCATION: ONE AEROJET WAY, CLARK, NORTH LAS VEGAS, NV

36 ° 14 ' 21.00 " N LAT.

115 ° 7 ' 6.00 " W LONG.

ANTENNA ID: TR 4.6M 4.6 meters ANDREW CORP.

ES46

11700.0000 - 12200.0000 MHz 200KG7D

OQPSK, DIGITAL, 128 KSPS,
RETURN 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

14000.0000 - 14500.0000 MHz 1M60G7D 66.90 dBW

BPSK, DATA, 1024 KSPS,
OUTROUTE CARRIER

14000.0000 - 14500.0000 MHz 24M0G7D 78.30 dBW

QPSK, DATA, 20 MSPS,
MULTIMEDIA BROADCAST
CARRIER

14000.0000 - 14500.0000 MHz 36M0G7D 78.30 dBW

QPSK, DATA, 30 MSPS,
MULTIMEDIA BROADCAST
CARRIER

SITE ID: TR 74CM
LOCATION: CONUS, AK, HI, VI, PR (350,000 .74M antennas)

ANTENNA ID:	TR 74M	0.74 meters	PRODELIN	HANT-91TR
11700.0000 - 12200.0000 MHz	24M0G7D			QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D			QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	39.00 dBW		OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	42.00 dBW		OQPSK, DIGITAL, 256 KSPS, RETURN 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		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D			OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D			OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7D			OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER

SITE ID: TF TR 74CM
LOCATION: CONUS, AK, HI, VI, PR (60,200 .74M antennas)

ANTENNA ID:	TF TR 74CM	0.74 meters	PRODELIN	HANT-91TR
14000.0000 - 14500.0000 MHz	400KG7D	60.90 dBW		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	24M0G7D			QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D			QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER

14000.0000 - 14500.0000 MHz	200KG7D	39.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	42.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7W	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	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	400KG7W		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: TR 98CM

LOCATION: CONUS, AK, HI, VI, PR (60,000 .98M antennas)

ANTENNA ID: TR 98M	0.98 meters	PRODELIN	9008668
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN 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	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: TF TR 98CM

LOCATION: CONUS, AK, HI, VI, PR (54,000 .98M antennas)

ANTENNA ID:	TF TR 98CM	0.98 meters	PRODELIN	9008668
	11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	44.30 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN 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	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	44.30 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
	11700.0000 - 12200.0000 MHz	800KG7D		QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	11700.0000 - 12200.0000 MHz	1M60G7D		QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: HUB 6.1M

LOCATION: ONE AEROJET WAY, CLARK, NORTH LAS VEGAS, NV

36 ° 14 ' 21.00 " N LAT.

115 ° 7 ' 6.00 " W LONG.

ANTENNA ID:	TR 6.1M	6.1 meters	VERTEX	6.1 KPK
	14000.0000 - 14500.0000 MHz	400KG7D	63.30 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	63.30 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
	14000.0000 - 14500.0000 MHz	6M00G7D	75.10 dBW	QPSK, DATA, 5 MSPS, MULTIMEDIA BROADCAST CARRIER
	14000.0000 - 14500.0000 MHz	12M0G7D	78.10 dBW	QPSK, DATA, 10 MSPS, MULTIMEDIA BROADCAST CARRIER
	11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DIGITAL, 128 KSPS, RETURN 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

SITE ID: HUB 7.6M

LOCATION: ONE AEROJET WAY, CLARK, NORTH LAS VEGAS, NV
36 ° 14 ' 0.00 " N LAT.

115 ° 7 ' 6.00 " W LONG.

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

14000.0000 - 14500.0000 MHz	1M60G7D	71.30 dBW	BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	65.30 dBW	BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
14000.0000 - 14500.0000 MHz	24M0G7D	78.30 dBW	QPSK, DATA, 20 MSPS, MULTIMEDIA BROADCAST CARRIER
14000.0000 - 14500.0000 MHz	36M0G7D	78.30 dBW	QPSK, DATA, 30 MSPS, MULTIMEDIA BROADCAST CARRIER
11700.0000 - 12200.0000 MHz	200KG7D		OQPSK, DIGITAL, 128 KSPS, RETURN 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		OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER

SITE ID: TR 74-2CM

LOCATION: CONUS, AK, HI, VI, PR (500,000 .74M antennas)

ANTENNA ID: TR 74-2 0.74 meters RAVEN HNS-1035610

11700.0000 - 12200.0000 MHz	6M00G7D	QPSK, DATA, 5 MSPS, MULTIMEDIA
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11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	26M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA
14000.0000 - 14500.0000 MHz	200KG7D	38.70 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	QPSK, DIGITAL, 1024 RSPS, RETURN CARRIER

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

ANTENNA ID: TFTR 74-2 0.74 meters RAVEN HNS-1035610

11700.0000 - 12200.0000 MHz	6M00G7D		QPSK, DATA, 5 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	12M0G7D		QPSK, DATA, 10 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	24M0G7D		QPSK, DATA, 20 MSPS, MULTIMEDIA
11700.0000 - 12200.0000 MHz	36M0G7D		QPSK, DATA, 30 MSPS, MULTIMEDIA
14000.0000 - 14500.0000 MHz	200KG7D	38.70 dBW	QPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	41.70 dBW	QPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	41.70 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	41.70 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: TF TR 1.2M
LOCATION: CONUS, AK, HI, VI, PR (50,000 1.2M antennas)

ANTENNA ID:	TF TR 1.2	1.2 meters	PRODELIN	1134
	14000.0000 - 14500.0000 MHz	800KG7W	46.10 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
	11700.0000 - 12200.0000 MHz	800KG7W		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
	11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: TR 1.2M
LOCATION: CONUS, AK, HI, VI, PR (100,000 1.2M antennas)

ANTENNA ID:	TR 1.2M	1.2 meters	PRODELIN	1134
	14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
	14000.0000 - 14500.0000 MHz	200KG7D	46.10 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	400KG7D	46.10 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
	14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
	11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
	11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, 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
	14000.0000 - 14500.0000 MHz	800KG7D	46.10 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER

14000.0000 - 14500.0000 MHz	1M60G7D	46.10 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: TR 1.0M

LOCATION: CONUS, AK, HI, VI, PR (10,000 1.0M antennas)

ANTENNA ID: TR 1.0M 1 meters HUGHES NETWORK SYSTEMS SCE 3000172

14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	44.00 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	44.00 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	44.00 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK OR MSK, DATA, 256 KSPS, INROUTE 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

SITE ID: TR 1.8M

LOCATION: CONUS, AK, HI, VI, PR (50,000 1.8M antennas)

ANTENNA ID: TR 1.8M 1.8 meters PRODELIN 1184

14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
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14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	49.70 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	49.70 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, 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
14000.0000 - 14500.0000 MHz	800KG7D	49.70 dBW	OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	49.70 dBW	OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		OQPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		OQPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

SITE ID: TR 2.4M

LOCATION: CONUS, AK, HI, VI, PR (11,000 2.4M antennas)

ANTENNA ID: TR 2.4M 2.4 meters PRODELIN 1244

14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	OQPSK, DIGITAL, 128 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	OQPSK, DIGITAL, 256 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	200KG7D	52.20 dBW	BPSK OR MSK, DATA, 128 KSPS, INROUTE CARRIER

14000.0000 - 14500.0000 MHz	400KG7D	52.20 dBW	BPSK OR MSK, DATA, 256 KSPS, INROUTE CARRIER
14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	BPSK OR MSK, DATA, 512 KSPS, INROUTE CARRIER
11700.0000 - 12200.0000 MHz	400KG7D		BPSK, DATA, 256 KSPS, OUTROUTE CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		BPSK, DATA, 1024 KSPS, 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
14000.0000 - 14500.0000 MHz	800KG7D	52.20 dBW	QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
14000.0000 - 14500.0000 MHz	1M60G7D	52.20 dBW	QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	800KG7D		QPSK, DIGITAL, 512 KSPS, RETURN CARRIER
11700.0000 - 12200.0000 MHz	1M60G7D		QPSK, DIGITAL, 1024 KSPS, RETURN CARRIER

Points of Communication:

HUB 4.6M - PERMITTED LIST - ()

HUB 6.1M - ALSAT - (ALSAT)

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

HUB 6.1M - HORIZONS 1 - (127 DEG WL)

HUB 6.1M - IA-8 - (89 W.L.)

HUB 7.6M - ALSAT - (ALSAT)

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

HUB 7.6M - HORIZONS 1 - (127 DEG WL)

HUB 7.6M - IA-8 - (89 W.L.)

TF TR 1.2M - ALSAT - (ALSAT)

TF TR 74CM - AMC-3 - (87 W.L.)

TF TR 74CM - AMC-4 (formerly GE-4 - (101 W.L.)

TF TR 74CM - AMC-6 - (72 W.L.)

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

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

TF TR 74CM - GALAXY 4R - (99 W.L.)

TF TR 74CM - GALAXY III-C - (95 W.L.)

TF TR 74CM - GALAXY XI - (91 W.L.)

TF TR 74CM - HORIZONS 1 - (127 DEG WL)

TF TR 74CM - IA-8 - (89 W.L.)

TF TR 74CM - INTELSAT AMERICAS 5 - (97 W.L.)

TF TR 74CM - SATMEX-5 - (116.8 W.L.)

TF TR 98CM - AMC-3 - (87 W.L.)

TF TR 98CM - AMC-4 (formerly GE-4 - (101 W.L.)

TF TR 98CM - AMC-6 - (72 W.L.)

TF TR 98CM - AMC-9 - (85 W.L.)

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

TF TR 98CM - GALAXY 4R - (99 W.L.)

TF TR 98CM - GALAXY III-C - (95 W.L.)

TF TR 98CM - GALAXY XI - (91 W.L.)

TF TR 98CM - HORIZONS 1 - (127 DEG WL)

TF TR 98CM - IA-8 - (89 W.L.)

TF TR 98CM - INTELSAT AMERICAS 5 - (97 W.L.)

TF TR 98CM - SATMEX-5 - (116.8 W.L.)

TFTR 74-2CM - AMC-3 - (87 W.L.)

TFTR 74-2CM - AMC-4 (formerly GE-4 - (101 W.L.)

TFTR 74-2CM - AMC-6 - (72 W.L.)

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

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

TFTR 74-2CM - GALAXY 4R - (99 W.L.)

TFTR 74-2CM - GALAXY III-C - (95 W.L.)

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

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

TFTR 74-2CM - INTELSAT 8 - (89 W.L.)

TFTR 74-2CM - INTELSAT AMERICAS 5 - (97 W.L.)

TFTR 74-2CM - SATMEX-5 - (116.8 W.L.)

TR 1.0M - ALSAT - (ALSAT)

TR 1.0M - GALAXY 10R - (123 W.L.)

TR 1.0M - HORIZONS 1 - (127 DEG WL)

TR 1.0M - IA-8 - (89 W.L.)

TR 1.2M - ALSAT - (ALSAT)

TR 1.8M - ALSAT - (ALSAT)

TR 2.4M - ALSAT - (ALSAT)

TR 74-2CM - AMC-3 - (87 W.L.)

TR 74-2CM - AMC-4 (formerly GE-4 - (101 W.L.)

TR 74-2CM - AMC-6 - (72 W.L.)

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

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

TR 74-2CM - GALAXY 4R - (99 W.L.)

TR 74-2CM - GALAXY III-C - (95 W.L.)

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

TR 74-2CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 74-2CM - SATMEX-5 - (116.8 W.L.)

TR 74CM - AMC-3 - (87 W.L.)

TR 74CM - AMC-4 (formerly GE-4 - (101 W.L.)

TR 74CM - AMC-6 - (72 W.L.)

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

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

TR 74CM - GALAXY 4R - (99 W.L.)

TR 74CM - GALAXY III-C - (95 W.L.)

TR 74CM - GALAXY XI - (91 W.L.)

TR 74CM - HORIZONS 1 - (127 DEG WL)

TR 74CM - IA-8 - (89 W.L.)

TR 74CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 74CM - SATMEX-5 - (116.8 W.L.)

TR 98CM - AMC-3 - (87 W.L.)

TR 98CM - AMC-4 (formerly GE-4 - (101 W.L.)

TR 98CM - AMC-6 - (72 W.L.)

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

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

TR 98CM - GALAXY 4R - (99 W.L.)

TR 98CM - GALAXY III-C - (95 W.L.)

TR 98CM - GALAXY XI - (91 W.L.)

TR 98CM - HORIZONS 1 - (127 DEG WL)

TR 98CM - IA-8 - (89 W.L.)

TR 98CM - INTELSAT AMERICAS 5 - (97 W.L.)

TR 98CM - SATMEX-5 - (116.8 W.L.)

SES-MOD-20050715-00920 E E8190 New York Times Management Services

Application for Modification

01/04/2005 - 01/04/2020

Grant of Authority

Date Effective: 09/22/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

"MOD" to change emission designator and related service and various technical data to its existing receive only registration.

SITE ID: 1
LOCATION: 3003 PARK 16TH STREET, HENRY, MOLINE, IL
41 ° 18 ' 43.00 " N LAT. 90 ° 22 ' 43.00 " W LONG.

ANTENNA ID: 1	7.3 meters	ANDREW CORPORATION	ESA73-46
3700.0000 - 4200.0000 MHz	36M0G7F		COMPRESSED DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	36M0F3F		STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS
ANTENNA ID: 2	4.5 meters	ANDREW CORPORATION	ESA45-46
3700.0000 - 4200.0000 MHz	36M0G7F		COMPRESSED DIGITAL VIDEO
3700.0000 - 4200.0000 MHz	36M0F3F		STANDARD VIDEO WITH ASSOCIATED AUDIO SUBCARRIERS

Points of Communication:

1 - ALSAT - (ALSAT)

SES-MOD-20050815-01104 E E030094 AMOCO PRODUCTION COMPANY
Application for Modification 09/05/2003 - 09/05/2018
Grant of Authority Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service, Fixed Satellite Service

"MOD" to add a new 2.4 meter antenna and point of communication AMC-3 @ 87 W.L. to it's existing C-band transmit/receive earth station license.

SITE ID: 1
LOCATION: OFFSHORE OIL PRODUCTION PLATFORM, GULF OF MEXICO
28 ° 31 ' 15.90 " N LAT. 88 ° 17 ' 20.00 " W LONG.

ANTENNA ID: 1	2.4 meters	CHANNEL MASTER	62-241-3201
5925.0000 - 6425.0000 MHz	1M50G7D	53.50 dBW	BPSK, QPSK, DIGITAL VOICE, DATA AND FAX
3700.0000 - 4200.0000 MHz	1M50G7D		BPSK, QPSK, DIGITAL VOICE, DATA AND FAX

SITE ID: 2
LOCATION: OFFSHORE OIL PRODUCTION PLATFORM, GULF OF MEXICO
28 ° 31 ' 15.90 " N LAT. 88 ° 17 ' 20.00 " W LONG.

ANTENNA ID:	A2	2.4 meters	SEA TEL, INC.	9797
5925.0000 - 6425.0000 MHz		1M80G7W	48.60 dBW	DIGITAL VOICE, FAX AND DATA
5925.0000 - 6425.0000 MHz		1M80G7W		DIGITAL VOICE, FAX AND DATA

Points of Communication:

- 1 - TELSTAR 6 - (93 W.L.)
- 2 - AMC-3 - (87 W.L.)

SES-MOD-20050819-01119	E	E050071	WDBJ Television, Inc	
Application for Modification				04/20/2005 - 04/20/2020
Grant of Authority				Date Effective: 09/26/2005

Class of Station: Temporary Fixed Earth Station

Nature of Service: Domestic Fixed Satellite Service

"MOD" to add new emission designator and related service.

SITE ID: 1
LOCATION: VARIOUS

ANTENNA ID:	1	2.4 meters	SATCOM TECH INC	240KV
14000.0000 - 14500.0000 MHz		36M0F3F	73.67 dBW	ANALOG VIDEO WITH AUDIO SUBCARRIERS
14000.0000 - 14500.0000 MHz		36M0G7W	73.70 dBW	DIGITAL VIDEO, AUDIO AND DATA

Points of Communication:

- 1 - ALSAT - (ALSAT)

SES-RWL-20050831-01213	E	E950288	EchoStar Satellite Operating Corporation	
Renewal				10/27/2005 - 10/27/2020
Grant of Authority				Date Effective: 09/22/2005

Class of Station: Fixed Earth Stations

Nature of Service: Direct Broadcast Satellite Service, Feeder Link for DBS in Fixed Satellite Service, Other

SITE ID: T3 and T4
LOCATION: 530 ECHOSTAR DRIVE, LARAMIE, CHEYENNE, WY
41 ° 7 ' 56.00 " N LAT. 104 ° 44 ' 9.00 " W LONG.

ANTENNA ID:	1	13.2 meters	TIW	LMATT 13.2 KU
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17790.0000 - 17800.0000 MHz	1M50G2D	87.40 dBW	COMMAND BEACON (TT&C)
17308.2500 - 17308.7500 MHz	1M50G2D	87.40 dBW	COMMAND BEACON (TT&C)
17300.0000 - 17800.0000 MHz	24M0M1F	87.40 dBW	DIGITAL, COMPRESSED VIDEO
17300.0000 - 17310.0000 MHz	1M50G2D	87.40 dBW	COMMAND BEACON (TT&C)
12698.3500 - 12698.6500 MHz	300KG2D		TELEMETRY & TRACKING BEACON (TT&C)
12690.0000 - 12700.0000 MHz	300KG2D		TELEMETRY & TRACKING BEACON (TT&C)
12202.3500 - 12202.6500 MHz	300KG2D		TELEMETRY & TRACKING BEACON (TT&C)
12200.3500 - 12200.6500 MHz	300KG2D		TELEMETRY & TRACKING BEACON (TT&C)
12200.0000 - 12700.0000 MHz	24M0M1F		DIGITAL, COMPRESSED VIDEO
12200.0000 - 12210.0000 MHz	300KG2D		TELEMETRY & TRACKING BEACON (TT&C)

Points of Communication:

T3 and T4 - ECHOSTAR 2 - (148 W.L.)

T3 and T4 - ECHOSTAR 3 - (61.5 W.L.)

T3 and T4 - ECHOSTAR 4 - (157 W.L.)

T3 and T4 - ECHOSTAR 5 - (119 W.L.)

T3 and T4 - ECHOSTAR 5 - (129 W.L.)

T3 and T4 - ECHOSTAR 6 - (110 W.L.)

T3 and T4 - ECHOSTAR 7 - (119 W.L.)

T3 and T4 - ECHOSTAR 8 - (110 W.L.)

T3 and T4 - ECHOSTAR I - (148.0 W.L.)

SES-RWL-20050916-01270 E E9199
Renewal
Grant of Authority

CABLEVISION OF NEWARK

11/06/2005 - 11/06/2020

Date Effective: 09/22/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 360 CENTRAL AVE, ESSEX, NEWARK, NJ
40 ° 44 ' 47.00 " N LAT. 74 ° 11 ' 33.00 " W LONG.

ANTENNA ID: 1 6.1 meters HARRIS CORPORATION 5243-5244
3700.0000 - 4200.0000 MHz 36M0F8W

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20050916-01271 E E960035 CSC TKR Inc
Renewal 11/09/2005 - 11/09/2020
Grant of Authority Date Effective: 09/22/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 2435 KUSER ROAD, MERCER, HAMILTON, NJ
40 ° 12 ' 15.60 " N LAT. 74 ° 39 ' 50.50 " W LONG.

ANTENNA ID: 1 5 meters ANTENNA TECHNOLOGY SIMULSAT COMM. 5M.
3700.0000 - 4200.0000 MHz 36M0F8W

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20050919-01274 E E960021 Comcast of Georgia/South Carolina, Inc.
Renewal 10/23/2005 - 10/23/2020
Grant of Authority Date Effective: 09/22/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: PARK OF COMMERCE, CHATHAM PARKWAY, CHATHAM, SAVANNAH, GA
32 ° 3 ' 45.60 " N LAT. 81 ° 9 ' 55.50 " W LONG.

ANTENNA ID: 1 4.5 meters SCIENTIFIC-ATLANTA 8345 4.5METER
3700.0000 - 4200.0000 MHz 36M0F8W

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20050919-01275 E E859932 Comcast of Southeast Pennsylvania, Inc.

Renewal

10/11/2005 - 10/11/2020

Grant of Authority

Date Effective: 09/22/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: PHILADELPHIA, BENSALEM, PA

40 ° 6 ' 36.00 " N LAT.

74 ° 55 ' 34.00 " W LONG.

ANTENNA ID: 1

5 meters

SCIENTIFIC ATLANTA

8008-PF

3700.0000 - 4200.0000 MHz

36000F9

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20050919-01278 E E960027 Comcast of Oregon I, Inc.

Renewal

11/01/2005 - 11/01/2020

Grant of Authority

Date Effective: 09/22/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1

LOCATION: 3140 KANZ CT. N.E., MARION, SALEM, OR

44 ° 58 ' 11.00 " N LAT.

123 ° 0 ' 48.00 " W LONG.

ANTENNA ID: 1

4.5 meters

SCIENTIFIC-ATLANTA

8345 4.5METER

3700.0000 - 4200.0000 MHz

36M0F8W

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20050919-01284 E E950502 PanAmSat Licensee Corp.

Renewal

11/24/2005 - 11/24/2020

Grant of Authority

Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 33 EAST TELEGRAPH ROAD, VENTURA, FILLMORE, CA
34 ° 24 ' 17.00 " N LAT. 118 ° 53 ' 35.00 " W LONG.

ANTENNA ID: 1 6.1 meters VERTEX COMM. CORP. 6.1 KPC
5925.0000 - 6425.0000 MHz 656KF2D 60.30 dBW
3700.0000 - 4200.0000 MHz 656KF2D

Points of Communication:

1 - ALSAT - (ALSAT)

SES-RWL-20050919-01285 E E950508 PanAmSat Licensee Corp.
Renewal 11/24/2005 - 11/24/2020
Grant of Authority Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service, Fixed Satellite Service

SITE ID: ATLANTA TELEPORT
LOCATION: 2857 FORK CREEK CHURCH ROAD, DEKALB, ELLENWOOD, GA
33 ° 39 ' 50.00 " N LAT. 84 ° 16 ' 23.00 " W LONG.

ANTENNA ID: 1 6.1 meters VERTEX COMM. CORP. KPC
5925.0000 - 6425.0000 MHz 656KF2D 60.30 dBW COMMAND CARRIER
5925.0000 - 6425.0000 MHz 64K0G7W 46.60 dBW DIGITAL VIDEO AND DATA
5925.0000 - 6425.0000 MHz 36M0G7W 74.00 dBW DIGITAL VIDEO AND DATA
5925.0000 - 6425.0000 MHz 750KF2D 69.00 dBW COMMAND CARRIER
3700.0000 - 4200.0000 MHz 656KF2D COMMAND CARRIER
3700.0000 - 4200.0000 MHz 64K0G7W DIGITAL VIDEO AND DATA
3700.0000 - 4200.0000 MHz 36M0G7W DIGITAL VIDEO AND DATA
3700.0000 - 4200.0000 MHz 750KF2D COMMAND CARRIER

Points of Communication:

ATLANTA TELEPORT - ALSAT - (ALSAT)

SES-RWL-20050920-01304 E E7427 Ascent Media Systems and Technology Services, LLC
Renewal 10/11/2005 - 10/11/2020
Grant of Authority Date Effective: 09/27/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

SITE ID: 1
LOCATION: 1403 LAKESIDE AVENUE, CUYAHOGA, CLEVELAND, OH
41 ° 30 ' 27.80 " N LAT. 81 ° 41 ' 14.70 " W LONG.

ANTENNA ID: 1	6.1 meters	HARRIS	5346
14000.0000 - 14500.0000 MHz	112KG1D	57.00 dBW	PSK PRIVATE DATA
14000.0000 - 14500.0000 MHz	36M0F8F	78.00 dBW	ANALOG VIDEO W/ASSOC AUDIO SUBCARRIERS
14000.0000 - 14500.0000 MHz	4M00G7F	70.00 dBW	PSK DIGITAL VIDEO WITH ASSOC. DIGITAL
14000.0000 - 14500.0000 MHz	36M0G7F	78.00 dBW	PSK DIGITAL VIDEO WITH ASSOC. DIGITAL
11700.0000 - 12200.0000 MHz	256KG1D		PSK PRIVATE DATA
11700.0000 - 12200.0000 MHz	36M0F8F		ANALOG VIDEO W/ASSOC AUDIO SUBCARRIERS
11700.0000 - 12200.0000 MHz	4M00G7F		PSK DIGITAL VIDEO WITH ASSOC. DIGITAL
11700.0000 - 12200.0000 MHz	36M0G7F		PSK DIGITAL VIDEO WITH ASSOC. DIGITAL

Points of Communication:

1 - ALSAT - (ALSAT)

SES-STA-20050912-01249 E Gray Television Licensee, Inc.
Special Temporary Authority
Grant of Authority Date Effective: 09/21/2005

Class of Station:

Special Temporary Authority (STA) is granted for a period of 60 days from September 21, 2005 until November 19, 2005.

Points of Communication:

SES-STA-20050916-01269 E

HARRIS CORPORATION

Special Temporary Authority

Grant of Authority

Date Effective: 09/22/2005

Class of Station:

Special Temporary Authorization is GRANTED for a period of 30 days beginning September 21, 2005 and ending October 20, 2005, to provide voice and data communications in their disaster relief efforts following Hurricane Katrina.

Points of Communication:

SES-STA-20050920-01287 E E050267

LIFE CHURCH

Special Temporary Authority

Grant of Authority

Date Effective: 09/23/2005

Class of Station: Fixed Earth Stations

Nature of Service: Domestic Fixed Satellite Service

Special Temporary Authority is GRANTED for a period of 60 days from September 23, 2005 until November 22, 2005.

SITE ID: 1

LOCATION:

Points of Communication:

1 - ALSAT - (ALSAT)

SES-STA-20050920-01288 E

Maritime Telecommunications Network, Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 09/04/2005

Class of Station:

This application is a follow-up request for special temporary authority for a 30 day period to provide communications services in the areas affected by Hurricane Katrina. The FCC granted the initial application on September 4, 2005, See SES-STA-20050908-01224, E040270.

Points of Communication:

SES-STA-20050920-01289 E

Maritime Telecommunications Network, Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 09/04/2005

Class of Station:

This application is a follow-up request for special temporary authority for a 30 day period to provide communications services in the areas affected by Hurricane Katrina. The FCC granted the initial application on September 4, 2005, See SES-STA-20050908-01224, E040270.

Points of Communication:**SES-STA-20050920-01290 E**

Maritime Telecommunications Network, Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 09/04/2005

Class of Station:

This application is a follow-up request for special temporary authority for a 30 day period to provide communications services in the areas affected by Hurricane Katrina. The FCC granted the initial application on September 4, 2005, See SES-STA-20050908-01224, E040270.

Points of Communication:**SES-STA-20050920-01291 E**

Maritime Telecommunications Network, Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 09/04/2005

Class of Station:

This application is a follow-up request for special temporary authority for a 30 day period to provide communications services in the areas affected by Hurricane Katrina. The FCC granted the initial application on September 4, 2005, See SES-STA-20050908-01224, E040270.

Points of Communication:**SES-STA-20050920-01301 E**

PetroCom License Corporation

Special Temporary Authority

Grant of Authority

Date Effective: 09/22/2005

Class of Station:

Special Temporary Authority is GRANTED for a period of 30 days to test beginning September 26, 2006 and ending October 26, 2005.

Points of Communication:**SES-STA-20050921-01308 E E980235 STRATOS OFFSHORE SERVICES COMPANY**

Special Temporary Authority

Grant of Authority

Date Effective: 09/21/2005

Class of Station:

Special Temporary Authority is GRANTED to provide news coverage of areas impacted by Hurricane Katrina and Hurricane Rita for a period of 60 days beginning September 21, 2005 and ending November 19, 2005.

Points of Communication:

SES-STA-20050923-01314 E

ARD German Television

Special Temporary Authority

Grant of Authority

Date Effective: 09/23/2005

Class of Station:

Special Temporary Authority is GRANTED to provide news coverage of areas impacted by Hurricane Katrina and Hurricane Rita for a period of 30 days beginning September 23, 2005 and ending October 22, 2005.

Points of Communication:

SES-STA-20050926-01318 E E030216

Anadarko Petroleum Corporation

Special Temporary Authority

Grant of Authority

Date Effective: 09/27/2005

Class of Station:

Special Temporary Authority is GRANTED for a period of 60 days beginning October 1, 2005 and ending December 30, 2005.

Points of Communication:

SES-T/C-20050803-01037 E E880067

SunGard NetWork Solutions Inc.

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 09/27/2005

Current Licensee: SunGard NetWork Solutions Inc.

FROM: SHAREHOLDERS OF SUNGARD DATA SYSTEMS, INC.

TO: SunGard Capital Corp.

No. of Station(s) listed: 2

SES-T/C-20050803-01038 E E880068

SunGard NetWork Solutions Inc.

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 09/27/2005

Current Licensee: SunGard NetWork Solutions Inc.

FROM: SHAREHOLDERS OF SUNGARD DATA SYSTEMS, INC.

TO: SunGard Capital Corp.

No. of Station(s) listed: 2

SES-T/C-20050817-01112 E E000665

Ameritech Mobile Services, Inc.

Application for Consent to Transfer of Control

Grant of Authority

Date Effective: 09/27/2005

Current Licensee: AMERITECH MOBILE SERVICES, INC.

FROM: AMERITECH WIRELESS HOLDINGS, INC.

TO: American Messaging Services, Inc.

No. of Station(s) listed: 2

Dismissal

SES-LIC-20050822-01121

E050247

Meinhardt Productions, Inc.

Dismissal

Application for conventional Ku-band earth station is dismissed without prejudice as defective due to internal inconsistencies. See DA 05-2487, released September 21, 2005.

SES-REG-20050523-00637 E050147 FREEDOM BROADCASTING OF MICHIGAN

Receive Only Registration Earth Station Application is dismissed without Prejudice, due to failure to resolved a debt under the red-light rule, see DA 05-2488 , released September 21, 2005.

INFORMATIVE

SES-MFS-20050701-00853 E000723 The Boeing Company

We have dismissed a portion of this application without prejudice as defective, while the other portion will remain pending. See DA 05-2486, released September 21, 2005.

SES-RWL-20001129-02259 E900068 CROWN COMMUNICATIONS CORPORATION

Licensee has surrendered license, per letter dated September 15, 2005.

SES-RWL-20011023-02067 E3814 NORTHLAND CABLE PROPERTIES, INC.

Licensee has surrendered license, per letter dated September 13, 2005.

SURRENDER

SES-RWL-20010829-01608 E3520 Cequel III Communications I, LLC

License surrendered by Licensee, per letter dated September 23, 2005.

SES-RWL-20010829-01609 E3521 Cequel III Communications I, LLC

License surrendered by Licensee, per letter dated September 23, 2005.

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