



# PUBLIC NOTICE

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

News media information 202-418-0500  
Internet: <http://www.fcc.gov> (or <ftp.fcc.gov>)  
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Report No. SES-01858

Wednesday June 8, 2016

## Satellite Communications Services Information re: Actions Taken

The Commission, by its International Bureau, took the following actions pursuant to delegated authority. The effective dates of the actions are the dates specified.

**SES-AMD-20160411-00327** E E070227 Globecomm License Sub LLC

Amendment

Grant of Authority

Date Effective: 06/07/2016

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: 45 OSER AVENUE, SUFFOLK, HAUPPAUGE, NY

40 ° 48 ' 54.20 " N LAT.

73 ° 14 ' 12.20 " W LONG.

|                             |         |            |                                |         |
|-----------------------------|---------|------------|--------------------------------|---------|
| ANTENNA ID:                 | AOT-26  | 4.5 meters | ASC SIGNAL CORP.               | ES45MPJ |
| 14000.0000 - 14500.0000 MHz | 461KG7W | 60.20 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 44K0G7W | 50.00 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 3M40G7W | 68.90 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 30M5G7W | 78.40 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 3M40G7D | 68.90 dBW  | DIGITAL DATA CARRIERS          |         |
| 14000.0000 - 14500.0000 MHz | 44K0G7W | 50.00 dBW  | DIGITAL DATA CARRIERS          |         |
| 14000.0000 - 14500.0000 MHz | 36M0G7W | 79.10 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 500KG7W | 60.50 dBW  | DIGITAL DATA CARRIERS          |         |
| 11700.0000 - 12200.0000 MHz | 461KG7W |            | DIGITAL VIDEO, AUDIO, AND DATA |         |

|                             |            |            |                                |
|-----------------------------|------------|------------|--------------------------------|
| 11700.0000 - 12200.0000 MHz | 44K0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 3M40G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 30M5G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11450.0000 - 12200.0000 MHz | 3M40G7D    |            | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 44K0G7W    |            | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 500KG7W    |            | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 36M0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 10950.0000 - 11200.0000 MHz | 3M40G7D    |            | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 44K0G7W    |            | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 36M0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 10950.0000 - 11200.0000 MHz | 500KG7W    |            | DIGITAL DATA CARRIERS          |
| ANTENNA ID: AOT-25          | 4.8 meters | VERTEX/RSI | 4.8M                           |
| 14000.0000 - 14500.0000 MHz | 461KG7W    | 61.50 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 44K0G7W    | 51.30 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 3M40G7W    | 70.20 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 30M5G7W    | 79.70 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 36M0G7W    | 80.40 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 44K0G7W    | 51.30 dBW  | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 500KG7W    | 61.80 dBW  | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 3M40G7D    | 70.20 dBW  | DIGITAL DATA CARRIERS          |
| 11700.0000 - 12200.0000 MHz | 461KG7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 44K0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 3M40G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 30M5G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11450.0000 - 12200.0000 MHz | 44K0G7W    | 0.00 dBW   | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 500KG7W    |            | DIGITAL DATA CARRIERS          |

|                             |            |            |                                |
|-----------------------------|------------|------------|--------------------------------|
| 11450.0000 - 12200.0000 MHz | 36M0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11450.0000 - 12200.0000 MHz | 3M40G7D    |            | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 36M0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 10950.0000 - 11200.0000 MHz | 3M40G7D    |            | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 500KG7W    |            | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 44K0G7W    |            | DIGITAL DATA CARRIERS          |
| ANTENNA ID: AOT-22          | 4.8 meters | VERTEX/RSI | 4.8M                           |
| 14000.0000 - 14500.0000 MHz | 27M5G7W    | 79.20 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 30M5G7W    | 79.70 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 3M40G7W    | 70.20 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 44K0G7W    | 51.30 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 461KG7W    | 61.50 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 3M40G7D    | 70.20 dBW  | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 44K0G7W    | 51.30 dBW  | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 500KG7W    | 61.80 dBW  | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 36M0G7W    | 80.40 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 13750.0000 - 14000.0000 MHz | 30M5G7W    | 76.00 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 30M5G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 3M40G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 461KG7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 44K0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 11450.0000 - 12200.0000 MHz | 3M40G7D    |            | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 44K0G7W    |            | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 500KG7W    |            | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 36M0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| 10950.0000 - 11200.0000 MHz | 3M40G7D    |            | DIGITAL DATA CARRIERS          |

|             |                             |            |           |                                |
|-------------|-----------------------------|------------|-----------|--------------------------------|
|             | 10950.0000 - 11200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: | AOT-1                       | 3.8 meters | VERTEX    | 3.8DPK                         |
|             | 14000.0000 - 14500.0000 MHz | 3M40G7D    | 68.50 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 44K0G7W    | 49.70 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 500KG7W    | 60.20 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 36M0G7W    | 69.30 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11450.0000 - 12200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 10950.0000 - 11200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: | AOT-3                       | 2.4 meters | PRODELIN  | 1251-502                       |
|             | 14000.0000 - 14500.0000 MHz | 3M40G7D    | 64.50 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 44K0G7W    | 45.60 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 500KG7W    | 56.10 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 36M0G7W    | 65.00 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11450.0000 - 12200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 10950.0000 - 11200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |

|             |                             |             |           |                                |
|-------------|-----------------------------|-------------|-----------|--------------------------------|
|             | 10950.0000 - 11200.0000 MHz | 44K0G7W     |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 500KG7W     |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 36M0G7W     |           | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: | AOT-5                       | 3.7 meters  | ANDREW    | ES37MPK                        |
|             | 14000.0000 - 14500.0000 MHz | 3M40G7D     | 68.60 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 44K0G7W     | 49.70 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 500KG7W     | 60.20 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 36M0G7W     | 70.20 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11450.0000 - 12200.0000 MHz | 3M40G7D     |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 44K0G7W     |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 500KG7W     |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 36M0G7W     |           | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 10950.0000 - 11200.0000 MHz | 3M40G7D     |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 44K0G7W     |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 500KG7W     |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 36M0G7W     |           | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: | AOT-27                      | 1.03 meters | SAILOR    | 900                            |
|             | 14000.0000 - 14500.0000 MHz | 3M40G7D     | 52.90 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 44K0G7W     | 34.00 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 500KG7W     | 44.50 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 36M0G7W     | 57.20 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11700.0000 - 12200.0000 MHz | 3M40G7D     |           | DIGITAL DATA CARRIERS          |
|             | 11700.0000 - 12200.0000 MHz | 44K0G7W     |           | DIGITAL DATA CARRIERS          |
|             | 11700.0000 - 12200.0000 MHz | 500KG7W     |           | DIGITAL DATA CARRIERS          |
|             | 11700.0000 - 12200.0000 MHz | 36M0G7W     |           | DIGITAL VIDEO, AUDIO, AND DATA |

**Points of Communication:**

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1 - HISPASAT 1C - (30.0 W.L.)

1 - PERMITTED LIST - ()

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**SES-MOD-20160229-00182**    E E070227    Globecom License Sub LLC

Application for Modification

10/29/2007 - 10/29/2022

Grant of Authority

Date Effective:    06/07/2016

**Class of Station:**        Fixed Earth Stations

**Nature of Service:**     Fixed Satellite Service

SITE ID:                1

LOCATION:              45 OSER AVENUE, SUFFOLK, HAUPPAUGE, NY

40 ° 48 ' 54.20 " N LAT.

73 ° 14 ' 12.20 " W LONG.

|                             |         |            |                                |         |
|-----------------------------|---------|------------|--------------------------------|---------|
| ANTENNA ID:                 | AOT-26  | 4.5 meters | ASC SIGNAL CORP.               | ES45MPJ |
| 14000.0000 - 14500.0000 MHz | 461KG7W | 60.20 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 44K0G7W | 50.00 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 3M40G7W | 68.90 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 30M5G7W | 78.40 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 11700.0000 - 12200.0000 MHz | 461KG7W |            | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 11700.0000 - 12200.0000 MHz | 44K0G7W |            | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 11700.0000 - 12200.0000 MHz | 3M40G7W |            | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 11700.0000 - 12200.0000 MHz | 30M5G7W |            | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 3M40G7D | 68.90 dBW  | DIGITAL DATA CARRIERS          |         |
| 14000.0000 - 14500.0000 MHz | 44K0G7W | 50.00 dBW  | DIGITAL DATA CARRIERS          |         |
| 14000.0000 - 14500.0000 MHz | 36M0G7W | 79.10 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 14000.0000 - 14500.0000 MHz | 500KG7W | 60.50 dBW  | DIGITAL DATA CARRIERS          |         |
| 10950.0000 - 11200.0000 MHz | 3M40G7D |            | DIGITAL DATA CARRIERS          |         |
| 10950.0000 - 11200.0000 MHz | 44K0G7W |            | DIGITAL DATA CARRIERS          |         |
| 10950.0000 - 11200.0000 MHz | 36M0G7W |            | DIGITAL VIDEO, AUDIO, AND DATA |         |
| 10950.0000 - 11200.0000 MHz | 500KG7W |            | DIGITAL DATA CARRIERS          |         |
| 11450.0000 - 12200.0000 MHz | 3M40G7D |            | DIGITAL DATA CARRIERS          |         |

|             |                             |            |            |                                |
|-------------|-----------------------------|------------|------------|--------------------------------|
|             | 11450.0000 - 12200.0000 MHz | 44K0G7W    |            | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 500KG7W    |            | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 36M0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: | AOT-25                      | 4.8 meters | VERTEX/RSI | 4.8M                           |
|             | 14000.0000 - 14500.0000 MHz | 461KG7W    | 61.50 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 14000.0000 - 14500.0000 MHz | 44K0G7W    | 51.30 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 14000.0000 - 14500.0000 MHz | 3M40G7W    | 70.20 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 14000.0000 - 14500.0000 MHz | 30M5G7W    | 79.70 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11700.0000 - 12200.0000 MHz | 461KG7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11700.0000 - 12200.0000 MHz | 44K0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11700.0000 - 12200.0000 MHz | 3M40G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11700.0000 - 12200.0000 MHz | 30M5G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 14000.0000 - 14500.0000 MHz | 36M0G7W    | 80.40 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 14000.0000 - 14500.0000 MHz | 44K0G7W    | 51.30 dBW  | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 500KG7W    | 61.80 dBW  | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 3M40G7D    | 70.20 dBW  | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 36M0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11450.0000 - 12200.0000 MHz | 44K0G7W    | 0.00 dBW   | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 500KG7W    |            | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 3M40G7D    |            | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 36M0G7W    |            | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11450.0000 - 12200.0000 MHz | 3M40G7D    |            | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 500KG7W    |            | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 44K0G7W    |            | DIGITAL DATA CARRIERS          |
| ANTENNA ID: | AOT-22                      | 4.8 meters | VERTEX/RSI | 4.8M                           |
|             | 14000.0000 - 14500.0000 MHz | 27M5G7W    | 79.20 dBW  | DIGITAL VIDEO, AUDIO, AND DATA |

|                             |            |           |                                |
|-----------------------------|------------|-----------|--------------------------------|
| 14000.0000 - 14500.0000 MHz | 30M5G7W    | 79.70 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 3M40G7W    | 70.20 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 44K0G7W    | 51.30 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 461KG7W    | 61.50 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
| 13750.0000 - 14000.0000 MHz | 30M5G7W    | 76.00 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 30M5G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 3M40G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 461KG7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 44K0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| 14000.0000 - 14500.0000 MHz | 3M40G7D    | 70.20 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 44K0G7W    | 51.30 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 500KG7W    | 61.80 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 36M0G7W    | 80.40 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
| 10950.0000 - 11200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| 11450.0000 - 12200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: AOT-1           | 3.8 meters | VERTEX    | 3.8DPK                         |
| 14000.0000 - 14500.0000 MHz | 3M40G7D    | 68.50 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 44K0G7W    | 49.70 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 500KG7W    | 60.20 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 36M0G7W    | 69.30 dBW | DIGITAL VIDEO, AUDIO, AND DATA |

|             |                             |            |           |                                |
|-------------|-----------------------------|------------|-----------|--------------------------------|
|             | 10950.0000 - 11200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11450.0000 - 12200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: | AOT-3                       | 2.4 meters | PRODELIN  | 1251-502                       |
|             | 14000.0000 - 14500.0000 MHz | 3M40G7D    | 64.50 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 44K0G7W    | 45.60 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 500KG7W    | 56.10 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 36M0G7W    | 65.00 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 10950.0000 - 11200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 3M40G7D    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 44K0G7W    |           | DIGITAL DATA CARRIERS          |
|             | 11450.0000 - 12200.0000 MHz | 500KG7W    |           | DIGITAL DATA CARRIERS          |
|             | 10950.0000 - 11200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
|             | 11450.0000 - 12200.0000 MHz | 36M0G7W    |           | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: | AOT-5                       | 3.7 meters | ANDREW    | ES37MPK                        |
|             | 14000.0000 - 14500.0000 MHz | 3M40G7D    | 68.60 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 440KG7W    | 49.70 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 500KG7W    | 60.20 dBW | DIGITAL DATA CARRIERS          |
|             | 14000.0000 - 14500.0000 MHz | 36M0G7W    | 70.20 dBW | DIGITAL VIDEO, AUDIO, AND DATA |

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|                             |             |           |                                |
|-----------------------------|-------------|-----------|--------------------------------|
| 10950.0000 - 11200.0000 MHz | 3M40G7D     |           | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 44K0G7W     |           | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 500KG7W     |           | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 3M40G7D     |           | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 44K0G7W     |           | DIGITAL DATA CARRIERS          |
| 11450.0000 - 12200.0000 MHz | 500KG7W     |           | DIGITAL DATA CARRIERS          |
| 10950.0000 - 11200.0000 MHz | 36M0G7W     |           | DIGITAL VIDEO, AUDIO, AND DATA |
| 11450.0000 - 12200.0000 MHz | 36M0G7W     |           | DIGITAL VIDEO, AUDIO, AND DATA |
| ANTENNA ID: AOT-27          | 1.03 meters | SAILOR    | 900                            |
| 14000.0000 - 14500.0000 MHz | 3M40G7D     | 52.90 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 44K0G7W     | 34.00 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 500KG7W     | 44.50 dBW | DIGITAL DATA CARRIERS          |
| 14000.0000 - 14500.0000 MHz | 36M0G7W     | 57.20 dBW | DIGITAL VIDEO, AUDIO, AND DATA |
| 11700.0000 - 12200.0000 MHz | 3M40G7D     |           | DIGITAL DATA CARRIERS          |
| 11700.0000 - 12200.0000 MHz | 44K0G7W     |           | DIGITAL DATA CARRIERS          |
| 11700.0000 - 12200.0000 MHz | 500KG7W     |           | DIGITAL DATA CARRIERS          |
| 11700.0000 - 12200.0000 MHz | 36M0G7W     |           | DIGITAL VIDEO, AUDIO, AND DATA |

**Points of Communication:**

1 - HISPASAT 1C - (30.0 W.L.)

1 - PERMITTED LIST - ()

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

Application for Modification

12/19/2012 - 12/19/2027

Grant of Authority

Date Effective: 06/06/2016

**Class of Station:** VSAT Network

**Nature of Service:** Fixed Satellite Service

SITE ID: REMOTE 0.96M.

LOCATION: (1500 UNITS) (0.96M. REMOTE), VARIOUS

0 ° 0 ' 0.00 " N LAT.

0 ° 0 ' 0.00 " W LONG.

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

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

|             |                             |            |           |                                     |
|-------------|-----------------------------|------------|-----------|-------------------------------------|
| ANTENNA ID: | REMOTE1.8                   | 1.8 meters | PRODELIN  | 1184                                |
|             | 14000.0000 - 14500.0000 MHz | 600KG7W    | 50.30 dBW | QPSK DIGITAL DATA, VOICE AND VIDEO  |
|             | 14000.0000 - 14500.0000 MHz | 2M50G7W    | 54.30 dBW | 8 PSK DIGITAL DATA, VOICE AND VIDEO |
|             | 11700.0000 - 12200.0000 MHz | 4M00G7W    | 0.00 dBW  | 16APSK DIGITAL DATA, VOICE, VIDEO   |
|             | 11700.0000 - 12200.0000 MHz | 12M0G7W    | 0.00 dBW  | 16APSK DIGITAL DATA, VOICE, VIDEO   |
|             | 14000.0000 - 14500.0000 MHz | 1M70G7W    | 54.30 dBW | QPSK DIGITAL DATA, VOICE AND VIDEO  |
|             | 14000.0000 - 14500.0000 MHz | 1M70G7W    | 54.30 dBW | 8 PSK DIGITAL DATA, VOICE AND VIDEO |
|             | 14000.0000 - 14500.0000 MHz | 1M00G7W    | 52.30 dBW | QPSK DIGITAL DATA, VOICE AND VIDEO  |

SITE ID: HUB1/1310PET  
 LOCATION: 1310 REDWOOD WAY (6.2M. HUB1), SONOMA, PETALUMA, CA  
 38 ° 16 ' 27.20 " N LAT. 122 ° 39 ' 48.50 " W LONG.

|             |          |            |        |                     |
|-------------|----------|------------|--------|---------------------|
| ANTENNA ID: | PET-KU-5 | 6.2 meters | HUAXIN | 6.2M-RXTX-MOTORIZED |
|-------------|----------|------------|--------|---------------------|

|                             |         |           |                                     |
|-----------------------------|---------|-----------|-------------------------------------|
| 14000.0000 - 14500.0000 MHz | 4M00G7W | 62.00 dBW | 16APSK DIGITAL DATA, VOICE, VIDEO   |
| 11700.0000 - 12200.0000 MHz | 600KG7W | 0.00 dBW  | QPSK DIGITAL DATA, VOICE AND VIDEO  |
| 11700.0000 - 12200.0000 MHz | 2M50G7W | 0.00 dBW  | 8 PSK DIGITAL DATA, VOICE AND VIDEO |
| 14000.0000 - 14500.0000 MHz | 12M0G7W | 66.80 dBW | 16APSK DIGITAL DATA, VOICE, VIDEO   |
| 11700.0000 - 12200.0000 MHz | 1M70G7W |           | QPSK DIGITAL DATA, VOICE AND VIDEO  |
| 11700.0000 - 12200.0000 MHz | 1M70G7W |           | 8 PSK DIGITAL DATA, VOICE AND VIDEO |
| 11700.0000 - 12200.0000 MHz | 1M00G7W |           | QPSK DIGITAL DATA, VOICE AND VIDEO  |

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

|                             |           |            |           |                                   |
|-----------------------------|-----------|------------|-----------|-----------------------------------|
| ANTENNA ID:                 | Hubbackup | 9.2 meters | STI       | 9200K                             |
| 14000.0000 - 14500.0000 MHz |           | 4M00G7W    | 62.00 dBW | 16APSK DIGITAL DATA, VOICE, VIDEO |

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|                             |         |           |                                     |
|-----------------------------|---------|-----------|-------------------------------------|
| 14000.0000 - 14500.0000 MHz | 12M0G7W | 66.80 dBW | 16APSK DIGITAL DATA, VOICE, VIDEO   |
| 11700.0000 - 12200.0000 MHz | 600KG7W |           | QPSK DIGITAL DATA, VOICE AND VIDEO  |
| 11700.0000 - 12200.0000 MHz | 2M50G7W |           | 8 PSK DIGITAL DATA, VOICE AND VIDEO |
| 11700.0000 - 12200.0000 MHz | 1M70G7W |           | QPSK DIGITAL DATA, VOICE AND VIDEO  |
| 11700.0000 - 12200.0000 MHz | 1M70G7W |           | 8 PSK DIGITAL DATA, VOICE AND VIDEO |
| 11700.0000 - 12200.0000 MHz | 1M00G7W |           | QPSK DIGITAL DATA, VOICE AND VIDEO  |

**Points of Communication:**

HUB1/1310PET - PERMITTED LIST - ()

HUBback#8722;up - PERMITTED LIST - ()

REMOTE 0.96M. - PERMITTED LIST - ()

REMOTE 1.2M. - PERMITTED LIST - ()

REMOTE 1.8M. - PERMITTED LIST - ()

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|                               |           |                                   |                            |
|-------------------------------|-----------|-----------------------------------|----------------------------|
| <b>SES-MOD-20160422-00366</b> | E E010241 | EchoStar Broadcasting Corporation | 11/02/2011 - 11/02/2026    |
| Application for Modification  |           |                                   | Date Effective: 06/07/2016 |
| Withdrawn                     |           |                                   |                            |

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Direct Broadcast Satellite Service

SITE ID: 1

LOCATION: 801 NORTH AMERICAN SKY BLVD., MARICOPA, GILBERT, AZ  
33 ° 21 ' 56.50 " N LAT. 111 ° 48 ' 51.50 " W LONG.

|                             |             |           |                        |
|-----------------------------|-------------|-----------|------------------------|
| ANTENNA ID: 1               | 13.2 meters | VERTEX    | 13 M LMA               |
| 17790.0000 - 17800.0000 MHz | 800KG2D     | 74.30 dBW | TELECOMMAND            |
| 17300.0000 - 17800.0000 MHz | 24M0G7W     | 87.40 dBW | DIGITAL VIDEO AND DATA |
| 17300.0000 - 17310.0000 MHz | 800KG2D     | 74.30 dBW | TELECOMMAND            |
| 12690.0000 - 12700.0000 MHz | 800KG2D     | 0.00 dBW  | TELEMETRY              |
| 12200.0000 - 12700.0000 MHz | 24M0G7W     | 0.00 dBW  | DIGITAL VIDEO AND DATA |

|                                  |                                                    |                                   |                                       |
|----------------------------------|----------------------------------------------------|-----------------------------------|---------------------------------------|
| 12200.0000 - 12210.0000 MHz      | 800KG2D                                            | 0.00 dBW                          | TELEMETRY                             |
| <b>Points of Communication:</b>  |                                                    |                                   |                                       |
| 1 - CIEL 2 - (128.85 W.L.)       |                                                    |                                   |                                       |
| 1 - EHOSTAR 10 - (110.2 W.L.)    |                                                    |                                   |                                       |
| 1 - EHOSTAR 11 - (110 W.L.)      |                                                    |                                   |                                       |
| 1 - EHOSTAR 14 - (118.9 W.L.)    |                                                    |                                   |                                       |
| 1 - EHOSTAR 18 (S2931) - (109.9) |                                                    |                                   |                                       |
| 1 - EHOSTAR 7 - (118.8 W.L.)     |                                                    |                                   |                                       |
| 1 - EHOSTAR/DISH - ()            |                                                    |                                   |                                       |
| <b>SES-MOD-20160422-00367</b>    | E E070014                                          | EchoStar Broadcasting Corporation |                                       |
| Application for Modification     |                                                    |                                   | 03/07/2007 - 03/07/2022               |
| Withdrawn                        |                                                    |                                   | Date Effective: 06/07/2016            |
| <b>Class of Station:</b>         | Fixed Earth Stations                               |                                   |                                       |
| <b>Nature of Service:</b>        | Other                                              |                                   |                                       |
| SITE ID:                         | 1                                                  |                                   |                                       |
| LOCATION:                        | 801 NORTH AMERICAN SKY BLVD, MARICOPA, GILBERT, AZ |                                   |                                       |
|                                  | 33 ° 22 ' 0.80 " N LAT. 111 ° 48 ' 54.70 " W LONG. |                                   |                                       |
| ANTENNA ID:                      | GFMA                                               | 13.2 meters                       | VERTEX/TIW 13.2 METER                 |
| 17790.0000 - 17800.0000 MHz      | 800KG2D                                            | 79.11 dBW                         | Command Carrier (TT&C)                |
| 17790.0000 - 17800.0000 MHz      | 800KG2D                                            | 84.10 dBW                         | Command Carrier (TT&C)                |
| 17300.0000 - 17800.0000 MHz      | 24M0G7W                                            | 86.90 dBW                         | Digital Compressed Video, Voice, Data |
| 17300.0000 - 17800.0000 MHz      | 24M0G7W                                            | 86.90 dBW                         | Digital Compressed Video              |
| 17300.0000 - 17800.0000 MHz      | 1M50G2D                                            | 86.90 dBW                         | Command Carrier (TT&C)                |
| 17300.0000 - 17800.0000 MHz      | 24M0G7W                                            | 86.90 dBW                         | Digital Compressed Video              |
| 17300.0000 - 17800.0000 MHz      | 24M0G7W                                            | 86.90 dBW                         | Digital Compressed Video              |
| 17300.0000 - 17800.0000 MHz      | 1M50G2D                                            | 86.90 dBW                         | Command Carrier (TT&C)                |
| 17300.0000 - 17310.0000 MHz      | 800KG2D                                            | 79.11 dBW                         | Command Carrier (TT&C)                |
| 17300.0000 - 17310.0000 MHz      | 800KG2D                                            | 84.10 dBW                         | Command Carrier (TT&C)                |
| 12690.0000 - 12700.0000 MHz      | 800KG2D                                            |                                   | Telemetry (TT&C)                      |

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|                             |         |                                       |
|-----------------------------|---------|---------------------------------------|
| 12690.0000 - 12700.0000 MHz | 800KG2D | Telemetry (TT&C)                      |
| 12200.0000 - 12700.0000 MHz | 24M0G7W | Digital Compressed Video, Voice, Data |
| 12200.0000 - 12700.0000 MHz | 24M0G7W | Digital Compressed Video              |
| 12200.0000 - 12700.0000 MHz | 1M50G2D | Telemetry (TT&C)                      |
| 12200.0000 - 12700.0000 MHz | 24M0G7W | Digital Compressed Video              |
| 12200.0000 - 12700.0000 MHz | 24M0G7W | Digital Compressed Video              |
| 12200.0000 - 12700.0000 MHz | 1M50G2D | Telemetry (TT&C)                      |
| 12200.0000 - 12210.0000 MHz | 800KG2D | Telemetry (TT&C)                      |
| 12200.0000 - 12210.0000 MHz | 800KG2D | Telemetry (TT&C)                      |
| 12200.0000 - 12205.0000 MHz | 800KG2D | Telemetry                             |

**Points of Communication:**

- 1 - CIEL 2 - (128.85 W.L.)
- 1 - ECHOSTAR 1 - (77 W.L.)
- 1 - ECHOSTAR 10 - (110.2 W.L.)
- 1 - ECHOSTAR 15 (S2811) - (45.1 W.L.)
- 1 - ECHOSTAR 16 (S2844) - (61.5 W.L.)
- 1 - ECHOSTAR 18 (S2931) - (109.9)
- 1 - ECHOSTAR 2 - (148 W.L.)
- 1 - ECHOSTAR 3 (S2741) - (61.5 W.L.)
- 1 - ECHOSTAR 4 - (77 W.L.)
- 1 - ECHOSTAR 5 - (129 W.L.)
- 1 - ECHOSTAR 6 - (110 W.L.)
- 1 - ECHOSTAR 6 - (72.7 W.L.)
- 1 - ECHOSTAR 7 - (119 W.L.)
- 1 - ECHOSTAR 8 - (110 W.L.)
- 1 - ECHOSTAR 8 - (76.85)
- 1 - ECHOSTAR I - (148.0 W.L.)
- 1 - ECHOSTAR/DISH - ()

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1 - NIMIQ 5 - (72.7 W.L.)

1 - RAINBOW1 - (61.5 W.L.)

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**SES-MOD-20160422-00368**    E E020307    EchoStar Broadcasting Corporation

Application for Modification

02/03/2003 - 02/03/2018

Withdrawn

Date Effective: 06/07/2016

**Class of Station:**       Fixed Earth Stations

**Nature of Service:**     Direct Broadcast Satellite Service

SITE ID:                1

LOCATION:              801 NORTH AMERICAN SKY BLVD., MARICOPA, GILBERT, AZ

33 ° 21 ' 55.30 " N LAT.

111 ° 48 ' 51.40 " W LONG.

ANTENNA ID:        1                      13 meters              VERTEX                      13 M LMA

17790.0000 - 17800.0000 MHz              800KG2D              72.63 dBW              TELECOMMAND

17300.0000 - 17800.0000 MHz              24M0G7W              87.40 dBW              DIGITAL VIDEO AND DATA

17300.0000 - 17310.0000 MHz              800KG2D              72.63 dBW              TELECOMMAND

12690.0000 - 12700.0000 MHz              800KG2D              0.00 dBW              TELEMETRY

12200.0000 - 12700.0000 MHz              24M0G7W              0.00 dBW              DIGITAL VIDEO AND DATA

12200.0000 - 12210.0000 MHz              300KG2D              0.00 dBW              TELEMETRY

**Points of Communication:**

1 - CIEL 2 - (128.85 W.L.)

1 - ECHOSTAR 10 - (110.2 W.L.)

1 - ECHOSTAR 11 - (110 W.L.)

1 - ECHOSTAR 14 - (118.9 W.L.)

1 - ECHOSTAR 18 (S2931) - (109.9)

1 - ECHOSTAR 7 - (118.8 W.L.)

1 - ECHOSTAR/DISH - ()

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**SES-MOD-20160422-00369**    E E980142    EchoStar Broadcasting Corporation

Application for Modification

05/22/2008 - 05/22/2023

Withdrawn

Date Effective: 06/07/2016

**Class of Station:**       Fixed Earth Stations

**Nature of Service:**     Direct Broadcast Satellite Service

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SITE ID: 1  
 LOCATION: 530 ECHOSTAR DRIVE, LARAMIE, CHEYENNE, WY  
 41 ° 7 ' 56.60 " N LAT. 104 ° 44 ' 15.60 " W LONG.

| ANTENNA ID: | 1                           | 13.2 meters | TIW       | 13.2 METER                                 |
|-------------|-----------------------------|-------------|-----------|--------------------------------------------|
|             | 17790.0000 - 17800.0000 MHz | 800KG2D     | 70.23 dBW | TT&C                                       |
|             | 17308.2500 - 17309.7500 MHz | 1M50G2D     | 87.40 dBW | COMMAND BEACON (TT&C)                      |
|             | 17300.0000 - 17800.0000 MHz | 24M0G1W     | 85.00 dBW | DIGITAL VIDEO, FEC 3/4, feederlink for DBS |
|             | 17300.0000 - 17800.0000 MHz | 24M0G7W     | 85.00 dBW | DIGITAL VIDEO AND DATA                     |
|             | 17300.0000 - 17310.0000 MHz | 800KG2D     | 70.23 dBW | TT&C                                       |
|             | 12698.3500 - 12698.6500 MHz | 300KG2D     |           | TELEMETRY & TRACKING BEACON (TT&C)         |
|             | 12690.0000 - 12700.0000 MHz | 800KG2D     |           | 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 | 24M0G1W     |           | DIGITAL VIDEO, FEC 3/4 (DBS)               |
|             | 12200.0000 - 12210.0000 MHz | 800KG2D     |           | TT&C                                       |

**Points of Communication:**

- 1 - ECHOSTAR 10 - (110.2 W.L.)
- 1 - ECHOSTAR 18 (S2931) - (109.9)
- 1 - ECHOSTAR 2 - (119 W.L.)
- 1 - ECHOSTAR 2 - (148 W.L.)
- 1 - ECHOSTAR 3 (S2741) - (61.5 W.L.)
- 1 - ECHOSTAR 4 - (157 W.L.)
- 1 - ECHOSTAR 4 - (77 W.L.)
- 1 - ECHOSTAR 5 - (129 W.L.)
- 1 - ECHOSTAR 5 - (148 W.L.)
- 1 - ECHOSTAR 6 - (110 W.L.)
- 1 - ECHOSTAR 7 - (119 W.L.)

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1 - EHOSTAR 8 - (110 W.L.)

1 - EHOSTAR I - (148.0 W.L.)

1 - EHOSTAR/DISH - ()

1 - RAINBOW1 - (61.5 W.L.)

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**SES-MOD-20160422-00370**    E   E980047    EchoStar Broadcasting Corporation

Application for Modification

03/06/2008 - 03/06/2023

Withdrawn

Date Effective:    06/07/2016

**Class of Station:**        Fixed Earth Stations

**Nature of Service:**     Direct Broadcast Satellite Service

SITE ID:                1

LOCATION:              530 EHOSTAR DRIVE, LARMIE, CHEYENNE, WY

41 ° 7 ' 56.40 " N LAT.

104 ° 44 ' 10.40 " W LONG.

ANTENNA ID:        1                      13.2 meters        TIW

14000.0000 - 14500.0000 MHz        36M0F8F        82.70 dBW        ANALOG TV

14000.0000 - 14500.0000 MHz        750KF2D        72.40 dBW        IOT/DATA

14000.0000 - 14500.0000 MHz        24M0M1F        87.40 dBW        DIGITAL TV

14000.0000 - 14500.0000 MHz        36M0G7W        89.20 dBW        IOT/DATA

14000.0000 - 14004.0000 MHz        800KG2D        72.70 dBW        TELECOMMAND

14000.0000 - 14002.0000 MHz        1M00G2D        73.70 dBW        TT&C

11700.0000 - 12200.0000 MHz        36M0F8F               ANALOG TV

**Points of Communication:**

1 - EHOSTAR 18 (S2931) - (109.9)

1 - EHOSTAR 6 - (72.7 W.L.)

1 - PERMITTED LIST - ()

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**SES-MOD-20160422-00371**    E   E980143    EchoStar Broadcasting Corporation

Application for Modification

06/10/2008 - 06/10/2023

Withdrawn

Date Effective:    06/07/2016

**Class of Station:**        Fixed Earth Stations

**Nature of Service:**     Direct Broadcast Satellite Service

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SITE ID: 1  
LOCATION: 530 EHOSTAR DRIVE, LARAMIE, CHEYENNE, WY  
41 ° 7 ' 57.50 " N LAT. 104 ° 44 ' 14.30 " W LONG.

| ANTENNA ID:                 | 1 | 13.2 meters | TIW       | 13.2 METER              |
|-----------------------------|---|-------------|-----------|-------------------------|
| 17790.0000 - 17800.0000 MHz |   | 800KG2D     | 70.23 dBW | TT&C                    |
| 17308.2500 - 17309.7500 MHz |   | 1M50G2D     | 87.40 dBW | COMMAND BEACON (TT&C)   |
| 17300.0000 - 17800.0000 MHz |   | 24M0M1F     | 85.00 dBW | DIGITAL VIDEO (DBS)     |
| 17300.0000 - 17800.0000 MHz |   | 24M0G7W     | 85.00 dBW | DIGITAL, VIDEO AND DATA |
| 17300.0000 - 17310.0000 MHz |   | 800KG2D     | 70.23 dBW | TT&C                    |
| 12698.3500 - 12698.6500 MHz |   | 300KG2D     |           |                         |
| 12690.0000 - 12700.0000 MHz |   | 800KG2D     |           | TT&C                    |
| 12202.3500 - 12202.6500 MHz |   | 300KG2D     |           |                         |
| 12200.3500 - 12200.6500 MHz |   | 300KG2D     |           |                         |
| 12200.0000 - 12210.0000 MHz |   | 800KG2D     |           | TT&C                    |

**Points of Communication:**

1 - EHOSTAR 18 (S2931) - (109.9)  
1 - EHOSTAR 2 - (118.8 W.L.)  
1 - EHOSTAR 5 - (119 W.L.)  
1 - EHOSTAR 5 - (148 W.L.)  
1 - EHOSTAR 6 - (110 W.L.)  
1 - EHOSTAR I - (148.0 W.L.)  
1 - EHOSTAR/DISH - ()  
1 - EHOSTAR-4 - (119 W.L.)

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**SES-STA-20160202-00110** E E070014 EchoStar Broadcasting Corporation  
Special Temporary Authority  
Grant of Authority

Date Effective: 06/06/2016

**Class of Station:**

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On June 6, 2016, EchoStar Broadcasting Corporation was granted special temporary authority for 30 days, beginning June 08, 2016, to operate its fixed earth station in Summerset, SD to: (1) conduct in-orbit testing ("IOT") of the EchoStar 18 satellite (S2931) at the 67.2° W.L. orbital location in the 12.2-12.7 GHz (space-to-Earth) and 17.3-17.8 GHz (Earth-to-space) frequency bands; (2) conduct telemetry, tracking, and command (TT&C) services on the 12.695 GHz, 12.696 GHz, 12.203 GHz, and 12.204 GHz (space-to-Earth) and 17.303 GHz (Earth-to-space) center frequencies; and (3) conduct other command operations in the 17.791-17.796 GHz (Earth-to-space) frequency band.

**Points of Communication:**

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**SES-STA-20160503-00389**      E   E030096      Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective:      06/06/2016

**Class of Station:**

On June 6, 2016, Intelsat License, LLC was granted special temporary authority for 30 days, beginning June 6, 2016, to operate its fixed earth station in Castle Rock, CO, to conduct telemetry, tracking, and command (TT&C) services for the Intelsat 31 satellite (S2924) during in-orbit testing (IOT) at the 132.0° W.L. orbital location and as it drifts to the 95.05° W.L. orbital location, using the following center frequencies: 13998.50 MHz and 14006.00 MHz (Earth-to-space), and 11194.25 MHz, 11195.50 MHz, 11196.25 MHz and 11196.75 MHz (space-to-Earth).

**Points of Communication:**

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**SES-STA-20160503-00391**      E   E140121      Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective:      06/02/2016

**Class of Station:**

On June 2, 2016, Intelsat License, LLC was granted special temporary authority for 30 days, beginning June 6, 2016, to operate its fixed earth station in Hagerstown, MD, to conduct telemetry, tracking, and command (TT&C) services for the Intelsat 31 satellite (S2924) during in-orbit testing (IOT) at the 132.0° W.L. orbital location and as it drifts to the 95.05° W.L. orbital location, using the following center frequencies: 13998.50 MHz and 14006.00 MHz (Earth-to-space), and 11194.25 MHz, 11195.50 MHz, 11196.25 MHz, and 11196.75 MHz (space-to-Earth).

**Points of Communication:**

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**SES-STA-20160512-00432**      E   E980005      EchoStar Broadcasting Corporation

Special Temporary Authority

Grant of Authority

Date Effective:      06/06/2016

**Class of Station:**

On June 6, 2016, EchoStar Broadcasting Corporation was granted special temporary authority for 30 days, beginning June 08, 2016, to operate its Cheyenne, WY earth station to: (1) conduct in-orbit testing ("IOT") of the EchoStar 18 satellite (S2931) at the 67.2° W.L. orbital location in the 12.2-12.7 GHz (space-to-Earth) and 17.3-17.8 GHz (Earth-to-space) frequency bands; (2) conduct telemetry, tracking, and command (TT&C) services on the 12.695 GHz, 12.696 GHz, 12.203 GHz, and 12.204 GHz (space-to-Earth) and 17.303 GHz (Earth-to-space) center frequencies; and (3) conduct other command operations in the 17.791-17.796 GHz (Earth-to-space) frequency band.

**Points of Communication:**

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**SES-STA-20160516-00434**      E   E160064      The Boeing Company

Special Temporary Authority

Grant of Authority

Date Effective:      06/02/2016

**Class of Station:**

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On June 2, 2016, The Boeing Company was granted special temporary authority for 30 days, beginning June 3, 2016, to operate a fixed earth station in Kennedy Space Center, FL to communicate with the Galaxy-17 satellite (S2715) at the 91° W.L. orbital location, in the 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands. Operations support communications command and control for recovery operations for the Commercial Crew Transportation System (CCTS).

**Points of Communication:**

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**SES-STA-20160516-00437**      E   E7541      Lockheed Martin Corporation

Special Temporary Authority

Grant of Authority

Date Effective:      06/02/2016

**Class of Station:**

On June 2, 2016, Lockheed Martin Corporation was granted special temporary authority for 30 days, beginning June 2, 2016, to operate its fixed earth station in Carpentersville, NJ to conduct telemetry, tracking, and command (TT&C) services during post-launch and early orbit phases (LEOP) to the BRISat satellite as it proceeds to the 105.65° W.L. orbital location, using the following center frequencies: 6416.5 and 6418.5 MHz (Earth-to-space), and 4193.5MHz and 4195.5 MHz (space-to-Earth).

**Points of Communication:**

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**SES-STA-20160524-00448**      E   E120106      Gogo LLC

Special Temporary Authority

Grant of Authority

Date Effective:      06/02/2016

**Class of Station:**

On June 2, 2016, Gogo LLC was granted special temporary authority for 60 days, beginning June 2, 2016, to operate up to 200 earth station aboard aircraft (ESAA) terminals with the Intelsat 18 satellite (S2817) at the 91° W.L. orbital location in the 14.0-14.5 GHz (Earth-to-space) and 12.25-12.75 GHz (space-to-Earth) frequency bands.

**Points of Communication:**

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**SES-STA-20160526-00460**      E   KA275      Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective:      06/06/2016

**Class of Station:**

On June 6, 2016, Intelsat License LLC was granted special temporary authority for 30 days, beginning June 8, 2016, to operate its Hagerstown, MD fixed earth station to provide launch and early orbit phase (LEOP) services to the BRISat satellite to conduct telemetry, tracking, and command (TT&C) services as it proceeds to the 105.65° W.L. orbital location, using the following center frequencies: 6416.5 and 6418.5 MHz (Earth-to-space), and 4193.5MHz and 4195.5 MHz (space-to-Earth).

**Points of Communication:**

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**SES-STA-20160526-00466**      E   E000296      Intelsat Satellite LLC

Special Temporary Authority

Grant of Authority

Date Effective:      06/06/2016

**Class of Station:**

On June 6, 2016, Intelsat License LLC was granted special temporary authority for 30 days, beginning June 8, 2016, to operate its Hagerstown, MD fixed earth station to provide launch and early orbit phase (LEOP) services to the BRISat satellite to provide telemetry, tracking, and command (TT&C) services as it proceeds to the 105.65° W.L. orbital location, using the following center frequencies: 6416.5 and 6418.5 MHz (Earth-to-space), and 4193.5MHz and 4195.5 MHz (space-to-Earth).

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**Points of Communication:**

**SES-STA-20160601-00469**    E   E060003    EchoStar Broadcasting Corporation  
Special Temporary Authority  
Grant of Authority

Date Effective:    06/06/2016

**Class of Station:**

On September 6, 2016, EchoStar Broadcasting Corporation was granted special temporary authority for 30 days, beginning June 08, 2016, to operate its Gilbert, AZ earth station to: (1) conduct in-orbit testing ("IOT") of the EchoStar 18 satellite (S2931) at the 67.2° W.L. orbital location in the 12.2-12.7 GHz (space-to-Earth) and 17.3-17.8 GHz (Earth-to-space) frequency bands; (2) conduct telemetry, tracking, and command (TT&C) services on the 12.695 GHz, 12.696 GHz, 12.203 GHz, and 12.204 GHz (space-to-Earth) and 17.303 GHz (Earth-to-space) center frequencies; and (3) conduct other command operations in the 17.791-17.796 GHz (Earth-to-space) frequency band.

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**Points of Communication:**

**SES-STA-20160601-00470**    E   E150098    EchoStar Broadcasting Corporation  
Special Temporary Authority  
Grant of Authority

Date Effective:    06/06/2016

**Class of Station:**

On September 6, 2016, EchoStar Broadcasting Corporation (EchoStar) was granted special temporary authority for 30 days, beginning June 08, 2016, to operate its fixed earth station in Summerset SD to: (1) conduct in-orbit testing (IOT) of the EchoStar 18 satellite (S2931) at the 67.2° W.L. orbital location in the 12.2-12.7 GHz (space-to-Earth) and 17.3-17.8 GHz (Earth-to-space) frequency bands; (2) conduct telemetry, tracking, and command (TT&C) services on the 12.695 GHz, 12.696 GHz, 12.203 GHz, and 12.204 GHz (space-to-Earth) and 17.303 GHz (Earth-to-space) center frequencies; and (3) conduct other command operations in the 17.791-17.796 GHz (Earth-to-space) frequency band.

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**Points of Communication:****SURRENDER**

**SES-RWL-20020627-01034**    E920365    AT&T Corp.

License surrendered by letter filed on June 2, 2016.

**SES-RWL-20060523-00877**    E960270    Indiana Broadcasting, LLC

License surrendered by letter filed on May 27, 2016.

**SES-RWL-20070606-00763**    KA220    AT&T Corp.

License surrendered by letter filed on June 2, 2016.

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