



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SES-01923

Wednesday January 25, 2017

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-ASG-20160906-00762 E E040466 Broadcast West, LLC
Application for Consent to Assignment
Grant of Authority Date Effective: 01/24/2017

Current Licensee: Broadcast West, LLC
FROM: BROADCAST WEST LLC
TO: West American Finance Corporation

No. of Station(s) listed: 1

SES-ASG-20161229-00975 E E020132 VideoLink, Inc.
Application for Consent to Assignment
Grant of Authority Date Effective: 01/24/2017

Current Licensee: VideoLink, Inc.
FROM: VIDEOLINK INC.
TO: Old VFOTS LLC

No. of Station(s) listed: 1

SES-ASG-20170111-00023 E E050348 MVS USA, Inc.
Application for Consent to Assignment
Grant of Authority Date Effective: 01/24/2017

Current Licensee: USSecurenet, LLC
FROM: USSECURENET, LLC
TO: MVS USA, Inc.

No. of Station(s) listed: 1

SES-ASG-20170111-00026 E E050395 KMBC Hearst Television Inc.
Application for Consent to Assignment
Consummated Date Effective: 01/11/2017

Current Licensee: KMBC Hearst Television Inc.
FROM: KMBC HEARST TELEVISION INC.
TO: Hearst Stations Inc.

No. of Station(s) listed: 1

SES-ASG-20170111-00027 E E060024 WTAE Hearst Television Inc.
Application for Consent to Assignment
Consummated Date Effective: 01/11/2017

Current Licensee: WTAE Hearst Television Inc.
FROM: WTAE HEARST TELEVISION INC.
TO: Hearst Stations Inc.

No. of Station(s) listed: 1

SES-ASG-20170111-00028 E E860473 WCVB Hearst Television Inc.
Application for Consent to Assignment
Consummated Date Effective: 01/11/2017

Current Licensee: WCVB HEARST TELEVISION, INC.
FROM: WCVB HEARST TELEVISION, INC.
TO: Hearst Stations Inc.

No. of Station(s) listed: 1

SES-ASG-20170111-00036 E E5699 Comcast Cable Communications Management, LLC
Application for Consent to Assignment
Consummated Date Effective: 01/11/2017

Current Licensee: Comcast Cable Communications Management, LLC
FROM: COMCAST CORPORATION
TO: Comcast Cable Communications Management, LLC

No. of Station(s) listed: 2

SES-ASG-20170111-00037 E E6003 Comcast of Michigan I, LLC
Application for Consent to Assignment
Consummated Date Effective: 01/11/2017

Current Licensee: Comcast of Michigan I, LLC
FROM: Comcast of Michigan I, Inc.
TO: Comcast of Michigan I, LLC

No. of Station(s) listed: 1

SES-ASG-20170111-00038 E WH97 Comcast of Michigan I, LLC
Application for Consent to Assignment
Consummated Date Effective: 01/11/2017

Current Licensee: Comcast of Michigan I, LLC
FROM: COMCAST OF MICHIGAN, LLC
TO: Comcast of Michigan I, LLC

No. of Station(s) listed: 2

SES-ASG-20170111-00039 E E7227 Comcast Cable Communications Management, LLC
Application for Consent to Assignment
Consummated Date Effective: 01/11/2017

Current Licensee: Comcast Cable Communications Management, LLC
FROM: COMCAST OF MASSACHUSETTS/NEW HAMPSHIRE, LLC
TO: Comcast Cable Communications Management, LLC

No. of Station(s) listed: 1

SES-LIC-20150616-00357 E E150095 Higher Ground LLC
Application for Authority 01/18/2017 - 01/18/2032
Grant of Authority Date Effective: 01/18/2017

Class of Station: Blanket Earth Stations

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

SITE ID: SATPAQ
LOCATION: AK, HI, PR, VI, (0.07M.) REMOTE, US, CONUS

| | | | | |
|-------------|---------------------------|-------------|-------------------|-----------------------|
| ANTENNA ID: | REMOTE | 0.07 meters | Higher Ground LLC | SatPaq |
| | 5925.0000 - 6425.0000 MHz | | 4M00G1D 9.00 dBW | TDMA, Spread Spectrum |
| | 5925.0000 - 6425.0000 MHz | | 8M00G1D 9.00 dBW | TDMA, Spread Spectrum |
| | 3700.0000 - 4200.0000 MHz | | 250KG1D | TDMA, Spread Spectrum |
| | 3700.0000 - 4200.0000 MHz | | 250KG1D | TDMA, Spread Spectrum |

Points of Communication:

SATPAQ - GALAXY 12 (S2422) - (129 W.L.)
SATPAQ - GALAXY 19 (S2647) - (97 W.L.)
SATPAQ - GALAXY 3C (S2381) - (95.05 W.L.)

SES-LIC-20160610-00516 E E160089 ViaSat, Inc.
Application for Authority 01/19/2017 - 01/19/2032
Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 1022 1st St NW (9.1 m Gateway), Bernalillo, Albuquerque, NM
35 ° 5 ' 37.50 " N LAT. 106 ° 38 ' 45.20 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|-------------------|----------------------------------|
| ANTENNA ID: | 1 | 9.1 meters | ViaSat, Inc. | VA-91-KA |
| | 29500.0000 - 30000.0000 MHz | | 417MG7D 66.50 dBW | 416.6 MBd M-ary PSK Digital Data |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 27500.0000 - 28100.0000 MHz | 500MG7D | 67.30 dBW | 500 MBd M-ary PSK Digital Carrier |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 66.50 dBW | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00519 E E160090 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 3910 W Interstate 45 Service Road (4.1 m Gateway), Ellis, Ennis, OH
 32 ° 22 ' 1.36 " N LAT. 96 ° 38 ' 15.28 " W LONG.

ANTENNA ID: 1 4.1 meters ViaSat, Inc. VA-41-KA

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00520 E E160091 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 928 SE 14th Ct (9.1 m Gateway), Polk, Des Moines, IA
41 ° 34 ' 46.00 " N LAT. 93 ° 35 ' 43.30 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 9.1 meters | ViaSat, Inc. | VA-91-KA |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 66.50 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 67.30 dBW | 500 MBd M-ary PSK Digital Carrier |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 66.50 dBW | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00522 E E160092 ViaSat, Inc.
Application for Authority 01/19/2017 - 01/19/2032
Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 2502 Gateway Rd, San Diego, Carlsbad, CA
33 ° 7 ' 41.20 " N LAT. 117 ° 15 ' 54.90 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00523 E E160093 ViaSat, Inc.
Application for Authority
Grant of Authority

01/19/2017 - 01/19/2032
Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 9174 South Jamaica St. Suite A, Douglas, Englewood, CO
39 ° 32 ' 57.30 " N LAT. 104 ° 51 ' 52.40 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00524 E E160094 ViaSat, Inc.
Application for Authority
Grant of Authority

01/19/2017 - 01/19/2032
Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 419 11th St, Richmond, Augusta, GA
33 ° 28 ' 28.61 " N LAT. 81 ° 58 ' 21.88 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |

17700.0000 - 18300.0000 MHz

500MG7D

500 MBd M-ary PSK Digital Carrier

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00525 E E160095 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 1180 Sathers Drive, Luzerne, Pittston, PA

41 ° 18 ' 59.30 " N LAT.

75 ° 42 ' 54.04 " W LONG.

ANTENNA ID: 1 4.1 meters ViaSat, Inc. VA-41-KA

29500.0000 - 30000.0000 MHz 417MG7D 60.00 dBW 416.6 MBd M-ary PSK Digital Data

27500.0000 - 28100.0000 MHz 500MG7D 61.60 dBW 500 MBd M-ary PSK Digital Carrier

27600.0000 - 29100.0000 MHz 417MG7D 60.00 dBW 416.6 MBd M-ary PSK Digital Data

19700.0000 - 20200.0000 MHz 417MG7D 416.6 MBd M-ary PSK Digital Data

17700.0000 - 18300.0000 MHz 500MG7D 500 MBd M-ary PSK Digital Carrier

17800.0000 - 19300.0000 MHz 417MG7D 416.6 MBd M-ary PSK Digital Data

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00526 E E160096 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 143 S. 25th St, Allegheny, Pittsburgh, PA

40 ° 25 ' 30.18 " N LAT.

79 ° 58 ' 11.06 " W LONG.

ANTENNA ID: 1 4.1 meters ViaSat, Inc. VA-41-KA

27600.0000 - 29100.0000 MHz 417MG7D 60.00 dBW 416.6 MBd M-ary PSK Digital Data

29500.0000 - 30000.0000 MHz 417MG7D 60.00 dBW 416.6 MBd M-ary PSK Digital Data

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00527 E E160097 ViaSat, Inc. 01/19/2017 - 01/19/2032
 Application for Authority Date Effective: 01/19/2017
 Grant of Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 969 Broad St, Portsmouth, Portsmouth, VA
 36 ° 50 ' 17.55 " N LAT. 76 ° 20 ' 0.66 " W LONG.

| | | | |
|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00528 E E160098 ViaSat, Inc. 01/19/2017 - 01/19/2032
 Application for Authority Date Effective: 01/19/2017
 Grant of Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 1203 North Frio Street, Bexter, San Antonio, TX
 29 ° 26 ' 18.32 " N LAT. 98 ° 30 ' 25.32 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00529 E E160099 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 2238 Williams Rd, Franklin, Columbus, OH
 39 ° 53 ' 20.90 " N LAT. 82 ° 55 ' 58.70 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00530 E E160100 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 1965 Porter St, Wayne, Detroit, MI
42 ° 19 ' 30.09 " N LAT.

83 ° 4 ' 11.71 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00531 E E160101 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 912 North Pine St, Polaski, North Little Rock, AR
34 ° 45 ' 44.56 " N LAT.

92 ° 15 ' 36.14 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00532 E E160102 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 1803 Herky Horine Rd, Jefferson, Pevely, MO

38 ° 15 ' 53.50 " N LAT.

90 ° 24 ' 45.13 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00533 E E160103 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 160 SW 701st Rd, Johnson, Centerview, MO

38 ° 44 ' 35.79 " N LAT.

93 ° 52 ' 42.81 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |

| | | |
|-----------------------------|---------|-----------------------------------|
| 19700.0000 - 20200.0000 MHz | 417MG7D | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

| | | | |
|-------------------------------|-----------|--------------|----------------------------|
| SES-LIC-20160610-00534 | E E160104 | ViaSat, Inc. | |
| Application for Authority | | | 01/19/2017 - 01/19/2032 |
| Grant of Authority | | | Date Effective: 01/19/2017 |

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 10136 Hirschdale Rd, Nevada, Truckee, CA
 39 ° 22 ' 55.17 " N LAT. 120 ° 4 ' 54.56 " W LONG.

| | | | |
|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

| | | | |
|-------------------------------|-----------|--------------|----------------------------|
| SES-LIC-20160610-00535 | E E160105 | ViaSat, Inc. | |
| Application for Authority | | | 01/19/2017 - 01/19/2032 |
| Grant of Authority | | | Date Effective: 01/19/2017 |

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 401 6th Street South, Jefferson, Birmingham, AL
 33 ° 29 ' 58.56 " N LAT. 86 ° 49 ' 13.43 " W LONG.

| | | | |
|-----------------------------|------------|--------------|----------------------------------|
| ANTENNA ID: 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00536 E E160106 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 311 Venture Drive, Waukesha, Dousman, WI
 43 ° 0 ' 52.28 " N LAT. 88 ° 27 ' 58.70 " W LONG.

| | | | |
|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00537 E E160107 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 3500 Lyman Blvd, Carver, Chaska, MN
44 ° 51 ' 3.77 " N LAT. 93 ° 35 ' 53.87 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00538 E E160108 ViaSat, Inc.
Application for Authority 01/19/2017 - 01/19/2032
Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 1902 S. East St, Marion, Indianapolis, IN
39 ° 44 ' 29.20 " N LAT. 86 ° 9 ' 7.10 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00539 E E160109 ViaSat, Inc.
Application for Authority
Grant of Authority

01/19/2017 - 01/19/2032
Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 5330 Love Lane, Gallatin, Bozeman, MT
45 ° 40 ' 33.40 " N LAT. 111 ° 8 ' 33.80 " W LONG.

| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
|-----------------------------|---|------------|-------------------|-----------------------------------|
| 27600.0000 - 29100.0000 MHz | | | 417MG7D 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | | 417MG7D 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | | 500MG7D 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | | 417MG7D | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | | 417MG7D | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | | 500MG7D | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00540 E E160110 ViaSat, Inc.
Application for Authority
Grant of Authority

01/19/2017 - 01/19/2032
Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 4485 E Sahara Ave, Clark, Las Vegas, NV
36 ° 8 ' 33.70 " N LAT. 115 ° 4 ' 38.10 " W LONG.

| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
|-----------------------------|---|------------|-------------------|-----------------------------------|
| 27600.0000 - 29100.0000 MHz | | | 417MG7D 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | | 417MG7D 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | | 500MG7D 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | | 417MG7D | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | | 417MG7D | 416.6 MBd M-ary PSK Digital Data |

17700.0000 - 18300.0000 MHz

500MG7D

500 MBd M-ary PSK Digital Carrier

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00541 E E160111 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 1401 Concourse Drive, Pennington, Rapid City, SD

44 ° 4 ' 20.70 " N LAT.

103 ° 9 ' 38.20 " W LONG.

ANTENNA ID: 1 4.1 meters ViaSat, Inc. VA-41-KA

27600.0000 - 29100.0000 MHz 417MG7D 60.00 dBW 416.6 MBd M-ary PSK Digital Data

29500.0000 - 30000.0000 MHz 417MG7D 60.00 dBW 416.6 MBd M-ary PSK Digital Data

27500.0000 - 28100.0000 MHz 500MG7D 61.60 dBW 500 MBd M-ary PSK Digital Carrier

17800.0000 - 19300.0000 MHz 417MG7D 416.6 MBd M-ary PSK Digital Data

19700.0000 - 20200.0000 MHz 417MG7D 416.6 MBd M-ary PSK Digital Data

17700.0000 - 18300.0000 MHz 500MG7D 500 MBd M-ary PSK Digital Carrier

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00542 E E160112 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 526 West 17th Street, Weber, Ogden, UT

41 ° 14 ' 17.82 " N LAT.

111 ° 59 ' 28.47 " W LONG.

ANTENNA ID: 1 4.1 meters ViaSat, Inc. VA-41-KA

27600.0000 - 29100.0000 MHz 417MG7D 60.00 dBW 416.6 MBd M-ary PSK Digital Data

29500.0000 - 30000.0000 MHz 417MG7D 60.00 dBW 416.6 MBd M-ary PSK Digital Data

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00543 E E160114 ViaSat, Inc. 01/19/2017 - 01/19/2032
Application for Authority Date Effective: 01/19/2017
Grant of Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 25726 South Hansen Road, San Joaquin, Tracy, CA
37 ° 43 ' 16.58 " N LAT. 121 ° 30 ' 38.33 " W LONG.

ANTENNA ID: 1 4.1 meters ViaSat, Inc. VA-41-KA

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00544 E E160113 ViaSat, Inc. 01/19/2017 - 01/19/2032
Application for Authority Date Effective: 01/19/2017
Grant of Authority

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 144 Robley St, Burt, Lyons, NE
41 ° 56 ' 27.80 " N LAT. 96 ° 27 ' 52.00 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00545 E E160115 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 2990 Sidco Drive, Nash, Nashville, TN
 36 ° 6 ' 11.20 " N LAT. 86 ° 45 ' 18.70 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00546 E E160116 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 295 Upright Road, Rowan, Mount Ulla, NC
35 ° 38 ' 56.10 " N LAT.

80 ° 40 ' 4.90 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00547 E E160117 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 460 S. Toole Ave, Pima, Tucson, AZ
32 ° 12 ' 57.50 " N LAT.

110 ° 57 ' 42.00 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00548 E E160118 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 2001 16th St. NE, Marion, Salem, OR

44 ° 57 ' 17.40 " N LAT.

123 ° 0 ' 57.60 " W LONG.

| | | | | |
|-----------------------------|---------|------------|-----------------------------------|----------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data | |
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data | |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier | |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data | |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data | |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier | |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00549 E E160119 ViaSat, Inc.

Application for Authority

01/19/2017 - 01/19/2032

Grant of Authority

Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1

LOCATION: 19770 Alameda Ave., El Paso, Tornillo, TX

31 ° 26 ' 29.00 " N LAT.

106 ° 5 ' 1.20 " W LONG.

| | | | | |
|-----------------------------|---------|------------|-----------------------------------|----------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data | |
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data | |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier | |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data | |

| | | |
|-----------------------------|---------|-----------------------------------|
| 19700.0000 - 20200.0000 MHz | 417MG7D | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

| | | | |
|-------------------------------|-----------|--------------|----------------------------|
| SES-LIC-20160610-00550 | E E160120 | ViaSat, Inc. | |
| Application for Authority | | | 01/19/2017 - 01/19/2032 |
| Grant of Authority | | | Date Effective: 01/19/2017 |

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 606 South Main Street, Levy, Chiefland, FL
 29 ° 28 ' 19.40 " N LAT. 82 ° 51 ' 34.60 " W LONG.

| | | | |
|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

| | | | |
|-------------------------------|-----------|--------------|----------------------------|
| SES-LIC-20160610-00551 | E E160121 | ViaSat, Inc. | |
| Application for Authority | | | 01/19/2017 - 01/19/2032 |
| Grant of Authority | | | Date Effective: 01/19/2017 |

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 140 S. 2nd Road, Atlantic, Hammonton, NJ
 39 ° 37 ' 1.30 " N LAT. 74 ° 49 ' 20.60 " W LONG.

| | | | |
|-----------------------------|------------|--------------|----------------------------------|
| ANTENNA ID: 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |

| | | | |
|-----------------------------|---------|-----------|-----------------------------------|
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00552 E E160124 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
 LOCATION: 1632 Midtown Place, Wake, Raleigh, NC
 35 ° 49 ' 48.50 " N LAT. 78 ° 36 ' 34.90 " W LONG.

| | | | |
|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00553 E E160122 ViaSat, Inc.
 Application for Authority 01/19/2017 - 01/19/2032
 Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 2300A Lyons Ave, Harris, Houston, TX
29 ° 46 ' 15.40 " N LAT. 95 ° 20 ' 45.60 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160610-00554 E E160123 ViaSat, Inc.
Application for Authority 01/19/2017 - 01/19/2032
Grant of Authority Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: SAN 1
LOCATION: 100 Garretts Lake Rd, Pottawatomie, Shawnee, OK
35 ° 24 ' 21.50 " N LAT. 96 ° 55 ' 23.90 " W LONG.

| | | | | |
|-----------------------------|---|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| 27600.0000 - 29100.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 29500.0000 - 30000.0000 MHz | | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| 27500.0000 - 28100.0000 MHz | | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| 17800.0000 - 19300.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 19700.0000 - 20200.0000 MHz | | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| 17700.0000 - 18300.0000 MHz | | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

SAN 1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160713-00642 E E160130 ViaSat, Inc.
Application for Authority
Grant of Authority

01/19/2017 - 01/19/2032
Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 7045 Hwy 305 N, DeSoto, Olive Branch, MS
33 ° 35 ' 35.40 " N LAT. 84 ° 13 ' 14.60 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 17700.0000 - 18300.0000 MHz | 500MG7D | | 500 MBd M-ary PSK Digital Carrier |

Points of Communication:

1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20160713-00643 E E160131 ViaSat, Inc.
Application for Authority
Grant of Authority

01/19/2017 - 01/19/2032
Date Effective: 01/19/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1
LOCATION: 457 Thurman Rd, Henry, Stockbridge, GA
33 ° 35 ' 35.40 " N LAT. 84 ° 13 ' 14.60 " W LONG.

| | | | | |
|-------------|-----------------------------|------------|--------------|-----------------------------------|
| ANTENNA ID: | 1 | 4.1 meters | ViaSat, Inc. | VA-41-KA |
| | 27600.0000 - 29100.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 29500.0000 - 30000.0000 MHz | 417MG7D | 60.00 dBW | 416.6 MBd M-ary PSK Digital Data |
| | 27500.0000 - 28100.0000 MHz | 500MG7D | 61.60 dBW | 500 MBd M-ary PSK Digital Carrier |
| | 17800.0000 - 19300.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |
| | 19700.0000 - 20200.0000 MHz | 417MG7D | | 416.6 MBd M-ary PSK Digital Data |

17700.0000 - 18300.0000 MHz

500MG7D

500 MBd M-ary PSK Digital Carrier

Points of Communication:

1 - VIASAT-2 (S2902) - (69.9 W.L.)

SES-LIC-20161109-00878 E E160169 Intelsat License LLC

Application for Authority

Withdrawn

Date Effective: 01/24/2017

Class of Station: Fixed Earth Stations

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: 961 Anselmo Court (NAP-K50), Napa, Napa, CA

38 ° 14 ' 43.00 " N LAT.

122 ° 16 ' 51.00 " W LONG.

ANTENNA ID: 1 8.1 meters Vertex 8.1KPK

13998.0000 - 13998.0000 MHz 900KF2D 75.00 dBW Command and Ranging

14000.0000 - 14500.0000 MHz 72M0G7W 88.50 dBW Data

14000.0000 - 14500.0000 MHz 36M0G7W 85.50 dBW Data

14000.0000 - 14500.0000 MHz 36M0G7W 75.00 dBW Data

12250.0000 - 12750.0000 MHz 36M0G7W Data

Points of Communication:

1 - INTELSAT 8 - (168.9)

1 - PERMITTED LIST - ()

SES-LIC-20161208-00938 E E160177 AT&T Corp.

Application for Authority

01/18/2017 - 01/18/2032

Grant of Authority

Date Effective: 01/18/2017

Class of Station: Temporary Fixed Earth Station

Nature of Service: Fixed Satellite Service

SITE ID: 1

LOCATION: (MP0101H3), Various (US Territor

ANTENNA ID: ATT-2M4 2.4 meters AVL 2410

3700.0000 - 4200.0000 MHz 1M59G2W QPSK, 8-QAM, 16-QAM, Data and Voice

5925.0000 - 6425.0000 MHz

1M59G2W

53.50 dBW

QPSK, 8-QAM, 16-QAM, Data and Voice

Points of Communication:

1 - PERMITTED LIST - ()

SES-MFS-20161122-00900 E E020248 EchoStar Broadcasting Corporation
Modification
Grant of Authority

04/22/2003 - 04/22/2018
Date Effective: 01/23/2017

Class of Station: Fixed Earth Stations

Nature of Service: Other

SITE ID: BH

LOCATION: 10020 LIBERTY STREET, MEADE, BLACKHAWK, SD
44 ° 11 ' 14.20 " N LAT.

103 ° 20 ' 7.50 " W LONG.

| ANTENNA ID: | BH8 | 8 meters | VERTEX RSI | 8M KU |
|-------------|-----------------------------|-------------|------------|--------------------------|
| | 17790.0000 - 17800.0000 MHz | 1M50F2D | 77.20 dBW | COMMAND |
| | 17790.0000 - 17800.0000 MHz | 800KF3D | 77.20 dBW | COMMAND |
| | 17790.0000 - 17800.0000 MHz | 1M50F3D | 77.20 dBW | COMMAND |
| | 17300.0000 - 17800.0000 MHz | 24M0G1W | 77.20 dBW | DIGITAL COMPRESSED VIDEO |
| | 17300.0000 - 17310.0000 MHz | 1M50F2D | 77.20 dBW | COMMAND |
| | 17300.0000 - 17310.0000 MHz | 800KF3D | 77.20 dBW | COMMAND |
| | 17300.0000 - 17310.0000 MHz | 1M50F3D | 77.20 dBW | COMMAND |
| | 12690.0000 - 12700.0000 MHz | 300KGXD | | TELEMETRY |
| | 12690.0000 - 12700.0000 MHz | 800KF3D | | TELEMETRY |
| | 12200.0000 - 12700.0000 MHz | 24M0G1W | | DIGITAL COMPRESSED VIDEO |
| | 12200.0000 - 12210.0000 MHz | 300KGXD | | TELEMETRY |
| | 12200.0000 - 12210.0000 MHz | 800KF3D | | TELEMETRY |
| ANTENNA ID: | BH13 | 13.2 meters | VERTEX RSI | 13.2M KU |
| | 17790.0000 - 17800.0000 MHz | 1M50F2D | 85.10 dBW | COMMAND |
| | 17790.0000 - 17800.0000 MHz | 800KF3D | 82.60 dBW | COMMAND |
| | 17790.0000 - 17800.0000 MHz | 1M50F3D | 85.10 dBW | COMMAND |

| | | | |
|-----------------------------|---------|-----------|--------------------------|
| 17300.0000 - 17800.0000 MHz | 24M0G1W | 85.10 dBW | DIGITAL COMPRESSED VIDEO |
| 17300.0000 - 17310.0000 MHz | 1M50F2D | 85.10 dBW | COMMAND |
| 17300.0000 - 17310.0000 MHz | 800KF3D | 82.60 dBW | COMMAND |
| 17300.0000 - 17310.0000 MHz | 1M50F3D | 85.10 dBW | COMMAND |
| 12690.0000 - 12700.0000 MHz | 300KGXD | | TELEMETRY |
| 12690.0000 - 12700.0000 MHz | 800KF3D | | TELEMETRY |
| 12200.0000 - 12700.0000 MHz | 24M0G1W | | DIGITAL COMPRESSED VIDEO |
| 12200.0000 - 12210.0000 MHz | 300KGXD | | TELEMETRY |
| 12200.0000 - 12210.0000 MHz | 800KF3D | | TELEMETRY |

Points of Communication:

- BH - ECHOSTAR 10 - (110.2 W.L.)
- BH - ECHOSTAR 15 (S2811) - (45.1 W.L.)
- BH - ECHOSTAR 23 - (44.9 W.L.)
- BH - ECHOSTAR 3 (S2741) - (61.5 W.L.)
- BH - ECHOSTAR 4 - (77 W.L.)
- BH - ECHOSTAR 5 - (129 W.L.)
- BH - ECHOSTAR 6 - (110 W.L.)
- BH - ECHOSTAR 7 - (119 W.L.)
- BH - ECHOSTAR 8 - (110 W.L.)
- BH - ECHOSTAR/DISH - ()
- BH - RAINBOW1 - (61.5 W.L.)

SES-MFS-20161122-00901 E E070014 EchoStar Broadcasting Corporation

Modification

03/07/2007 - 03/07/2022

Grant of Authority

Date Effective: 01/23/2017

Class of Station: Fixed Earth Stations

Nature of Service: Direct Broadcast Satellite Service, Fixed Satellite Service, Other

SITE ID: 1

LOCATION: 801 N. DISH DRIVE (GFMA), 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 |
|-------------|-----------------------------|-------------|------------|---------------------------------------|
| | 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) |
| | 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 - 12210.0000 MHz | 800KG2D | | Telemetry (TT&C) |
| | 12200.0000 - 12210.0000 MHz | 800KG2D | | Telemetry (TT&C) |
| | 12690.0000 - 12700.0000 MHz | 800KG2D | | Telemetry (TT&C) |
| | 12690.0000 - 12700.0000 MHz | 800KG2D | | Telemetry (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) |
| | 17790.0000 - 17800.0000 MHz | 800KG2D | 79.11 dBW | Command Carrier (TT&C) |
| | 17300.0000 - 17800.0000 MHz | 24M0G7W | 86.90 dBW | Digital Compressed Video |
| | 12200.0000 - 12700.0000 MHz | 24M0G7W | | Digital Compressed Video |
| | 12200.0000 - 12700.0000 MHz | 24M0G7W | | Digital Compressed Video |
| | 17300.0000 - 17800.0000 MHz | 24M0G7W | 86.90 dBW | Digital Compressed Video |
| | 17790.0000 - 17800.0000 MHz | 800KG2D | 84.10 dBW | Command Carrier (TT&C) |
| | 12200.0000 - 12205.0000 MHz | 800KG2D | | Telemetry |
| | 17300.0000 - 17800.0000 MHz | 1M50G2D | 86.90 dBW | Command Carrier (TT&C) |
| | 12200.0000 - 12700.0000 MHz | 1M50G2D | | Telemetry (TT&C) |

Points of Communication:

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

1 - ECHOSTAR 1 - (77 W.L.)

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

- 1 - EHOSTAR 15 (S2811) - (45.1 W.L.)
- 1 - EHOSTAR 16 (S2844) - (61.5 W.L.)
- 1 - EHOSTAR 2 - (148 W.L.)
- 1 - EHOSTAR 23 - (44.9 W.L.)
- 1 - EHOSTAR 3 (S2741) - (61.5 W.L.)
- 1 - EHOSTAR 4 - (77 W.L.)
- 1 - EHOSTAR 5 - (129 W.L.)
- 1 - EHOSTAR 6 - (110 W.L.)
- 1 - EHOSTAR 6 - (72.7 W.L.)
- 1 - EHOSTAR 7 - (119 W.L.)
- 1 - EHOSTAR 8 - (110 W.L.)
- 1 - EHOSTAR 8 - (76.85)
- 1 - EHOSTAR I - (148.0 W.L.)
- 1 - EHOSTAR/DISH - ()
- 1 - NIMIQ 5 - (72.7 W.L.)
- 1 - RAINBOW1 - (61.5 W.L.)

SES-RWL-20101215-01553 E E000724 XM Radio LLC
 Renewal 01/22/2011 - 01/22/2026
 Surrender of Authorization Date Effective: 01/18/2017

Class of Station: Fixed Earth Stations

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

licensee surrendered its authororization

SITE ID: 1
 LOCATION: 1500 ECKINGTON PLACE, NE, WASHINGTON, DC
 38 ° 54 ' 34.10 " N LAT. 77 ° 0 ' 18.50 " W LONG.

| | | | |
|---------------------------|------------|----------------|------------------------|
| ANTENNA ID: 001 | 3.8 meters | PRODELIN CORP. | 1383 |
| 6328.4000 - 6330.4000 MHz | 282KG7D | 59.00 dBW | DIGITAL VOICE AND DATA |
| 5989.9000 - 6009.1000 MHz | 282KG7D | 59.00 dBW | DIGITAL VOICE AND DATA |
| 3700.0000 - 4200.0000 MHz | 282KG7D | | DIGITAL VOICE AND DATA |

Points of Communication:

1 - ANIK E1 - (118.7 W.L.)

1 - ANIK E2 - (111.1 W.L)

1 - PERMITTED LIST - ()

SES-STA-20161219-00962 E Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 01/18/2017

Class of Station:

On January 18, 2017, Intelsat License LLC was granted special temporary authority for 30 days, beginning January 26, 2017, to operate its 9.2-meter fixed earth station in Riverside, CA to provide in-orbit testing (IOT) for the StarOne-D1 satellite at the 84.0 W.L. orbital location in the 27.20-29.35 GHz (Earth-to-space) and 19.10-20.20 GHz (space-to-Earth) frequency bands.

Points of Communication:

SES-STA-20170105-00012 E E140121 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 01/23/2017

Class of Station:

On January 23, 2017, Intelsat License LLC was granted special temporary authority for 30 days, beginning January 27, 2017, to operate its fixed earth station in Hagerstown, MD to provide launch and early orbit phase (LEOP) services for the HispaSat-AG1 satellite as it proceeds to the 26.0° W.L. orbital location, on the following center frequencies: 14003.80 MHz and 14494.50 MHz (Earth-to-space), and 11452.00 MHz and 12749.00 MHz (space-to-Earth).

Points of Communication:

SES-STA-20170105-00013 E KA258 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 01/23/2017

Class of Station:

On January 23, 2017, Intelsat License LLC was granted special temporary authority for 30 days, beginning January 27, 2017, to operate its fixed earth station in Hagerstown, MD to provide launch and early orbit phase (LEOP) services for the HispaSat-AG1 satellite as it proceeds to the 26.0° W.L. orbital location, on the following center frequencies: 14003.80 MHz and 14494.50 MHz (Earth-to-space), and 11452.00 MHz and 12749.00 MHz (space-to-Earth).

Points of Communication:

SES-STA-20170105-00014 E KL92 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 01/23/2017

Class of Station:

On January 23, 2017, Intelsat License LLC was granted special temporary authority for 30 days, beginning January 27, 2017, to operate its fixed earth station in Castle Rock, CO to provide launch and early orbit phase (LEOP) services for the HispaSat-AG1 satellite as it proceeds to the 26.0° W.L. orbital location, on the following center frequencies: 14003.80 MHz and 14494.50 MHz (Earth-to-space), and 11452.00 MHz and 12749.00 MHz (space-to-Earth).

Points of Communication:

SES-STA-20170109-00020 E E120106 AC BidCo LLC

Special Temporary Authority

Grant of Authority

Date Effective: 01/23/2017

Class of Station:

On January 23, 2017, AC BidCo LLC was granted special temporary authority for 60 days, beginning January 23, 2017, to operate up to 200 earth station aboard aircraft (ESAA) terminals (0.74-meter ThinKom, model 2KuAntenna), to communicate with the SES-3 (Call Sign S2892) satellite at the 103° 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.

Points of Communication:

SES-STA-20170110-00021 E KA275 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 01/23/2017

Class of Station:

On January 23, 2017, Intelsat License LLC was granted special temporary authority for 30 days, beginning February 14, 2017, to operate its fixed earth station in Hagerstown, MD to provide launch and early orbit phase (LEOP) services for the Telkom-3S satellite as it proceeds to the 136.5° E.L. orbital location, on the following center frequencies: 5926.5 MHz and 6423.5 MHz (Earth-to-space), and 3700.5 MHz and 4199.61 MHz (space-to-Earth).

Points of Communication:

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