



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
RADIO STATION AUTHORIZATION**

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025



Nature of Service: Fixed Satellite Service

Class of Station: Fixed Earth Stations

**A) Site Location(s)**

| #  | Site ID                   | Address   | Latitude | Longitude | Elevation (Meters) | Special Provisions NAD (Refer to Section H) |
|----|---------------------------|---|----------|-----------|--------------------|---|
| 1) | (C-ba)<br>ESV9707/97/11   | Operate up to 500 remotes<br>(2.4M) US Internation water                            |          |           |                    | 83  |
|    |                           | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |          |           |                    |   |
| 2) | (Ku) ESV<br>REMOTE6006    | 500 (1.5M. SEA TEL<br>6006/09/12)<br>US Internation water,                          |          |           |                    | 83  |
|    |                           | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |          |           |                    |   |
| 3) | (Ku) ESV<br>REMOTE800A    | 500 (0.83M. SAILOR 800A)<br>US Internation water,                                   |          |           |                    | 83  |
|    |                           | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |          |           |                    |   |
| 4) | (Ku) ESV<br>REMOTE900B    | 500 (1.0M. SAILOR 900B)<br>US Internation water,                                    |          |           |                    | 83  |
|    |                           | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |          |           |                    |   |
| 5) | (Ku) ESV<br>TTSAIL900     | Operate up to 500 remotes<br>(1.0M) US Internation water                            |          |           |                    | 83  |
|    |                           | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |          |           |                    |   |
| 6) | (Ku)<br>ESVREMOTE<br>.75M | Operate up to 500 remotes<br>(.75M) US Internation water                            |          |           |                    | 83  |
|    |                           | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |          |           |                    |   |



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**A) Site Location(s)**

| #   | Site ID       | Address  | Latitude | Longitude | Elevation (Meters) | Special Provisions NAD (Refer to Section H) |
|-----|---------------|--|----------|-----------|--------------------|---|
| 7)  | ESV/4003A     | Operate up to 550 remotes<br>(1.0M)<br>CONUS,  |          |           |                    | 83  |
|     |               | Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site. |          |           |                    |   |
| 8)  | ESV/4006      | Operate up to 550 remotes<br>(1.0M)<br>CONUS,  |          |           |                    | 83  |
|     |               | Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site. |          |           |                    |   |
| 9)  | ESV/4996T     | Operate up to 550 remotes<br>(1.2M)<br>CONUS,  |          |           |                    | 83  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209  |          |           |                    |   |
| 10) | ESV/9711QOR-C | Operate up to 500 remotes<br>(2.4M C-BAND) US Internation<br>water   |          |           |                    | 83  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209  |          |           |                    |   |
| 11) | ESV/9711QOR-I | Operate up to 500 remotes<br>(1.2M KU-BAND) US Internation<br>water  |          |           |                    | 83  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209  |          |           |                    |   |
| 12) | ESV/INTV100KI | Operate up to 500 remotes<br>(1.06M KU-BAND) US Internation<br>water   |          |           |                    | 83  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209  |          |           |                    |   |



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**A) Site Location(s)**

| #   | Site ID       | Address   | Latitude    | Longitude    | Elevation<br>(Meters) | NAD | Special Provisions<br>(Refer to Section H) |
|-----|---------------|---|-------------|--------------|-----------------------|-----|--|
| 13) | ESV/INTV130K1 | Operate up to 500 remotes<br>(1.25M KU-BAND) US Internation<br>water                |             |              |                       | 83  |  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |             |              |                       |     |  |
| 14) | ESV/INTV240   | Operate up to 500 remotes<br>(2.4M) US Internation water                            |             |              |                       | 83  |  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |             |              |                       |     |  |
| 15) | ESV/MIT/MVA12 | Operate up to 500 remotes<br>(1.2M KU-BAND) US Internation<br>water                 |             |              |                       | 83  |  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |             |              |                       |     |  |
| 16) | ESV/MIT/MVA60 | Operate up to 500 remotes<br>(0.6M KU-BAND) US Internation<br>water                 |             |              |                       | 83  |  |
| 17) | ESV/V110      | 500 (1.05M ANTENNAS)<br>CONUS   |             |              |                       | 83  |  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |             |              |                       |     |  |
| 18) | Hub 1.2M(Ku)  | 2120 River Road<br>Southbury, New Haven, CT 06488                                   | 41°27'6.3"N | 73°17'16.4"W | 36.6                  | 83  |  |
|     |               | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |             |              |                       |     |  |



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**A) Site Location(s)**

| #   | Site ID               | Address  | Latitude | Longitude | Elevation (Meters) | NAD | Special Provisions (Refer to Section H) |
|-----|-----------------------|--|----------|-----------|--------------------|-----|---|
| 19) | REMOTE .75 M          | 100 (.75 M antennas)<br>CONUS  |          |           |                    | 83  |   |
|     |                       | Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site. |          |           |                    |     |   |
| 20) | REMOTE .90 M          | 250 (.90 M antennas)<br>CONUS  |          |           |                    | 83  |   |
|     |                       | Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site. |          |           |                    |     |   |
| 21) | REMOTE .96 M          | 500 (.96 M antennas)<br>CONUS  |          |           |                    | 83  |   |
|     |                       | Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site. |          |           |                    |     |   |
| 22) | REMOTE 1              | 1,000 (1.2M ANTENNAS)<br>CONUS   |          |           |                    | 83  |   |
|     |                       | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209  |          |           |                    |     |   |
| 23) | REMOTE<br>1.2MSINAERO | 500 (1.2M. FLYAWAY)<br>US Internation water<br>CONUS, AK HI,   |          |           |                    | 83  |   |
|     |                       | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209  |          |           |                    |     |   |
| 24) | REMOTE 2              | 1,000 (1.8M ANTENNAS)<br>CONUS   |          |           |                    | 83  |   |
|     |                       | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209  |          |           |                    |     |   |



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**A) Site Location(s)**

| #   | Site ID            | Address                            | Latitude | Longitude | Elevation (Meters) | Special Provisions NAD (Refer to Section H)   |
|-----|--------------------|------------------------------------|----------|-----------|--------------------|---|
| 25) | REMOTE 3<br>(2.4M) | 500 (2.4M ANTENNAS)<br><br>CONUS   |          |           | 83                 | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |
| 26) | Remote 1.2m<br>AVL | 1000 (1.2M ANTENNAS)<br><br>CONUS, |          |           | 83                 | Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 |

*Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning February 20, 2010 (3 AM Eastern Standard Time) and ending February 20, 2025 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is April 25, 2017 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.*

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
The General Provision 1900 applies to all transmitting frequency bands.  
For the text of these provisions, refer to Section H.

| #  | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services           |
|----|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--------------------------------|
| 1) | 14000.0000-14500.0000 | H, V, L, R        | 169KG7W  | Tx         | 55.30                   | 39.10                                | (Hub) 1.2M.        |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 2) | 14000.0000-14500.0000 | H, V, L, R        | 1M62G7W  | Tx         | 55.30                   | 29.30                                | (Hub) 1.2M.        |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 3) | 14000.0000-14500.0000 | H, V, L, R        | 36M0G7W  | Tx         | 63.30                   | 23.80                                | (Hub) 1.2M.        |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 4) | 14000.0000-14500.0000 | H, V, L, R        | 64K0G7W  | Tx         | 41.30                   | 29.30                                | (Hub) 1.2M.        |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 5) | 11700.0000-12200.0000 | H, V, L, R        | 36M0G7W  | Rx         |                         |                                      | (Hub) 1.2M.        |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 6) | 11700.0000-12200.0000 | H, V, L, R        | 3M00G7W  | Rx         |                         |                                      | (Hub) 1.2M.        |   | DIGITAL AUDIO, VIDEO, AND DATA |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #   | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services           |
|-----|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--------------------------------|
| 7)  | 11700.0000-12200.0000 | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | (Hub) 1.2M.        |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 8)  | 11700.0000-12200.0000 | H, V, L, R        | 64K0G7W  | Rx         |                         |                                      | (Hub) 1.2M.        |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 9)  | 14000.0000-14500.0000 | H, V, L, R        | 1M52G7W  | Tx         | 49.50                   | 25.00                                | .75M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 10) | 14000.0000-14500.0000 | H, V, L, R        | 342KG7W  | Tx         | 43.00                   | 25.00                                | .75M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 11) | 11700.0000-12200.0000 | H, V, L, R        | 3M00G7W  | Rx         |                         |                                      | .75M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 12) | 11700.0000-12200.0000 | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | .75M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 13) | 14000.0000-14500.0000 | H, V, L, R        | 1M52G7W  | Tx         | 50.60                   | 26.10                                | .90M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 14) | 14000.0000-14500.0000 | H, V, L, R        | 342KG7W  | Tx         | 44.10                   | 26.10                                | .90M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 15) | 11700.0000-12200.0000 | H, V, L, R        | 3M00G7W  | Rx         |                         |                                      | .90M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 16) | 11700.0000-12200.0000 | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | .90M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 17) | 14000.0000-14500.0000 | H, V, L, R        | 1M52G7W  | Tx         | 51.70                   | 27.20                                | .96M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 18) | 14000.0000-14500.0000 | H, V, L, R        | 342KG7W  | Tx         | 45.20                   | 27.20                                | .96M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 19) | 11700.0000-12200.0000 | H, V, L, R        | 3M00G7W  | Rx         |                         |                                      | .96M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 20) | 11700.0000-12200.0000 | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | .96M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 21) | 14000.0000-14500.0000 | H, V, L, R        | 169KG7W  | Tx         | 58.50                   | 42.30                                | 1.8M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 22) | 14000.0000-14500.0000 | H, V, L, R        | 1M62G7W  | Tx         | 58.50                   | 32.50                                | 1.8M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 23) | 11700.0000-12200.0000 | H, V, L, R        | 3M00G7W  | Rx         |                         |                                      | 1.8M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |
| 24) | 11700.0000-12200.0000 | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | 1.8M.              |   | DIGITAL AUDIO, VIDEO, AND DATA |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
The General Provision 1900 applies to all transmitting frequency bands.  
For the text of these provisions, refer to Section H.

| #   | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                      |
|-----|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|---|
| 25) | 14000.0000-14500.0000 | H, V, L, R        | 169KG7W  | Tx         | 61.20                   | 45.00                                | 2.4M.              |   | DIGITAL AUDIO, VIDEO, AND DATA            |
| 26) | 14000.0000-14500.0000 | H, V, L, R        | 1M62G7W  | Tx         | 61.20                   | 35.20                                | 2.4M.              |   | DIGITAL AUDIO, VIDEO, AND DATA            |
| 27) | 11700.0000-12200.0000 | H, V, L, R        | 3M00G7W  | Rx         |                         |                                      | 2.4M.              |   | DIGITAL AUDIO, VIDEO, AND DATA            |
| 28) | 11700.0000-12200.0000 | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | 2.4M.              |   | DIGITAL AUDIO, VIDEO, AND DATA            |
| 29) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 34.40                   | 23.90                                | 4003A              |   | SPCP USING QPSK AND BPSK MODULATION       |
| 30) | 14000.0000-14500.0000 | H, V              | 538KG1W  | Tx         | 45.20                   | 23.90                                | 4003A              |   | SPCP USING QPSK AND BPSK MODULATION       |
| 31) | 14000.0000-14500.0000 | H, V              | 89K6G1W  | Tx         | 37.40                   | 23.90                                | 4003A              |   | SPCP USING QPSK AND BPSK MODULATION       |
| 32) | 14000.0000-14500.0000 | H, V              | 227KG7W  | Tx         | 41.50                   | 23.90                                | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 33) | 14000.0000-14500.0000 | H, V              | 340KG7W  | Tx         | 43.20                   | 23.90                                | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 34) | 14000.0000-14500.0000 | H, V              | 378KG7W  | Tx         | 43.60                   | 23.90                                | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 35) | 14000.0000-14500.0000 | H, V              | 378KG7W  | Tx         | 43.60                   | 23.90                                | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 36) | 14000.0000-14500.0000 | H, V              | 454KG7W  | Tx         | 44.50                   | 23.90                                | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 37) | 14000.0000-14500.0000 | H, V              | 908KG7W  | Tx         | 45.80                   | 22.20                                | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 38) | 14000.0000-14500.0000 | H, V              | 1M40G7W  | Tx         | 45.80                   | 20.30                                | 4003A              |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 39) | 14000.0000-14500.0000 | H, V              | 316KG7W  | Tx         | 42.80                   | 23.90                                | 4003A              |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 40) | 14000.0000-14500.0000 | H, V              | 607KG7W  | Tx         | 45.70                   | 23.90                                | 4003A              |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 41) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 4003A              |   | SPCP USING QPSK AND BPSK MODULATION       |
| 42) | 11450.0000-12200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | 4003A              |   | SPCP USING QPSK AND BPSK MODULATION       |



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| #   | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                      |
|-----|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|---|
| 43) | 11450.0000-12200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | 4003A              |   | SCPC USING QPSK AND BPSK MODULATION       |
| 44) | 11450.0000-12200.0000 | H, V              | 151KG7W  | Rx         |                         |                                      | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 45) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 46) | 11450.0000-12200.0000 | H, V              | 2M60G7W  | Rx         |                         |                                      | 4003A              |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 47) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 4003A              |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 48) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 4003A              |   | SCPC USING QPSK AND BPSK MODULATION       |
| 49) | 10950.0000-11200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | 4003A              |   | SCPC USING QPSK AND BPSK MODULATION       |
| 50) | 10950.0000-11200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | 4003A              |   | SCPC USING QPSK AND BPSK MODULATION       |
| 51) | 10950.0000-11200.0000 | H, V              | 151KG7W  | Rx         |                         |                                      | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 52) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 4003A              |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 53) | 10950.0000-11200.0000 | H, V              | 2M60G7W  | Rx         |                         |                                      | 4003A              |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 54) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 4003A              |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 55) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 34.40                   | 23.90                                | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 56) | 14000.0000-14500.0000 | H, V              | 717KG1W  | Tx         | 46.40                   | 23.90                                | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 57) | 14000.0000-14500.0000 | H, V              | 89K6G1W  | Tx         | 37.40                   | 23.90                                | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 58) | 14000.0000-14500.0000 | H, V              | 227KG7W  | Tx         | 41.50                   | 23.90                                | 4006               |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 59) | 14000.0000-14500.0000 | H, V              | 340KG7W  | Tx         | 43.20                   | 23.90                                | 4006               |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 60) | 14000.0000-14500.0000 | H, V              | 378KG7W  | Tx         | 43.60                   | 23.90                                | 4006               |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |





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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #   | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                      |
|-----|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|---|
| 61) | 14000.0000-14500.0000 | H, V              | 454KG7W  | Tx         | 44.50                   | 23.90                                | 4006               |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 62) | 14000.0000-14500.0000 | H, V              | 908KG7W  | Tx         | 47.40                   | 23.80                                | 4006               |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 63) | 14000.0000-14500.0000 | H, V              | 1M40G7W  | Tx         | 47.40                   | 21.90                                | 4006               |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 64) | 14000.0000-14500.0000 | H, V              | 316KG7W  | Tx         | 42.80                   | 23.90                                | 4006               |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 65) | 14000.0000-14500.0000 | H, V              | 607KG7W  | Tx         | 45.70                   | 23.90                                | 4006               |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 66) | 11450.0000-12200.0000 | H, V              | 151KG7W  | Rx         |                         |                                      | 4006               |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 67) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 4006               |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 68) | 11450.0000-12200.0000 | H, V              | 2M60G7W  | Rx         |                         |                                      | 4006               |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 69) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 4006               |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 70) | 11450.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 71) | 11450.0000-11200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 72) | 11450.0000-11200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 73) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 74) | 10950.0000-11200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 75) | 10950.0000-11200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | 4006               |   | SCPC USING QPSK AND BPSK MODULATION       |
| 76) | 10950.0000-11200.0000 | H, V              | 151KG7W  | Rx         |                         |                                      | 4006               |   | TDM/TDMA USING QPSK AND BPSK MODULATION   |
| 77) | 10950.0000-11200.0000 | H, V              | 2M60G7W  | Rx         |                         |                                      | 4006               |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |
| 78) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 4006               |   | DVB/MFTDMA USING QPSK AND BPSK MODULATION |



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**RADIO STATION AUTHORIZATION**

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #   | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|-----|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 79) | 14000.0000-14500.0000 | H, V              | 1M43G1W  | Tx         | 51.10                   | 26.60                                | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 80) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 36.10                   | 25.60                                | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 81) | 14000.0000-14500.0000 | H, V              | 717KG1W  | Tx         | 48.10                   | 25.60                                | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 82) | 14000.0000-14500.0000 | H, V              | 89K6G1W  | Tx         | 39.10                   | 25.60                                | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 83) | 11450.0000-12200.0000 | H, V              | 1M43G1W  | Rx         |                         |                                      | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 84) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 85) | 11450.0000-12200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 86) | 11450.0000-12200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 87) | 10950.0000-11200.0000 | H, V              | 1M43G1W  | Rx         |                         |                                      | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 88) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 89) | 10950.0000-11200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 90) | 10950.0000-11200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | 4996T              |   | SCPC USING QPSK AND BPSK MODULATION            |
| 91) | 14000.0000-14500.0000 | H, V              | 10M0G1W  | Tx         | 64.40                   | 30.40                                | 6006/09/12         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 92) | 14000.0000-14500.0000 | H, V              | 10M0G7W  | Tx         | 64.40                   | 30.40                                | 6006/09/12         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 93) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 41.60                   | 31.10                                | 6006/09/12         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 94) | 14000.0000-14500.0000 | H, V              | 44K8G7W  | Tx         | 41.60                   | 31.10                                | 6006/09/12         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 95) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 6006/09/12         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 96) | 11450.0000-12200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | 6006/09/12         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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Common Carrier

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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
The General Provision 1900 applies to all transmitting frequency bands.  
For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H)        | Modulation/ Services |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|--|----------------------|
| 97)  | 11450.0000-12200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | 6006/09/12         | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 98)  | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 6006/09/12         | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 99)  | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 6006/09/12         | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 100) | 10950.0000-11200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | 6006/09/12         | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 101) | 10950.0000-11200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | 6006/09/12         | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 102) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 6006/09/12         | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 103) | 5925.0000-6425.0000   | H, V, L, R        | 15M0G1W  | Tx         | 60.95                   | 25.21                                | 9711QOR-C          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 104) | 5925.0000-6425.0000   | H, V, L, R        | 15M0G7W  | Tx         | 60.95                   | 25.21                                | 9711QOR-C          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 105) | 5925.0000-6425.0000   | H, V, L, R        | 44K8G1W  | Tx         | 49.50                   | 39.00                                | 9711QOR-C          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 106) | 5925.0000-6425.0000   | H, V, L, R        | 44K8G7W  | Tx         | 49.50                   | 39.00                                | 9711QOR-C          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 107) | 3700.0000-4200.0000   | H, V, L, R        | 44K8G1W  | Rx         |                         |                                      | 9711QOR-C          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 108) | 3700.0000-4200.0000   | H, V, L, R        | 44K8G7W  | Rx         |                         |                                      | 9711QOR-C          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 109) | 3700.0000-4200.0000   | H, V, L, R        | 54M0G1W  | Rx         |                         |                                      | 9711QOR-C          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 110) | 3700.0000-4200.0000   | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | 9711QOR-C          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 111) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 39.50                   | 29.00                                | 9711QORKU          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 112) | 14000.0000-14500.0000 | H, V              | 44K8G7W  | Tx         | 39.50                   | 29.00                                | 9711QORKU          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 113) | 14000.0000-14500.0000 | H, V              | 8M00G1W  | Tx         | 56.26                   | 23.26                                | 9711QORKU          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |
| 114) | 14000.0000-14500.0000 | H, V              | 8M00G7W  | Tx         | 56.26                   | 23.26                                | 9711QORKU          | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |                      |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services   |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 115) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 9711QORKU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 116) | 11450.0000-12200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | 9711QORKU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 117) | 11450.0000-12200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | 9711QORKU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 118) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 9711QORKU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 119) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | 9711QORKU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 120) | 10950.0000-11200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | 9711QORKU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 121) | 10950.0000-11200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | 9711QORKU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 122) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | 9711QORKU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 123) | 14000.0000-14500.0000 | H, V, L, R        | 1M55G7W  | Tx         | 55.10                   | 29.20                                | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 124) | 14000.0000-14500.0000 | H, V, L, R        | 388KG7W  | Tx         | 49.10                   | 29.20                                | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 125) | 14000.0000-14500.0000 | H, V, L, R        | 3M10G7W  | Tx         | 58.10                   | 29.20                                | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 126) | 14000.0000-14500.0000 | H, V, L, R        | 64K0G7W  | Tx         | 41.30                   | 29.20                                | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 127) | 14000.0000-14500.0000 | H, V, L, R        | 776KG7W  | Tx         | 52.10                   | 29.10                                | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 128) | 11700.0000-12200.0000 | H, V, L, R        | 45M0G7W  | Rx         |                         |                                      | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 129) | 11700.0000-12200.0000 | H, V, L, R        | 64K0G7W  | Rx         |                         |                                      | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services   |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 130) | 11450.0000-11700.0000 | H, V, L, R        | 45M0G7W  | Rx         |                         |                                      | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 131) | 11450.0000-11700.0000 | H, V, L, R        | 64K0G7W  | Rx         |                         |                                      | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 132) | 10950.0000-11200.0000 | H, V, L, R        | 45M0G7W  | Rx         |                         |                                      | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 133) | 10950.0000-11200.0000 | H, V, L, R        | 64K0G7W  | Rx         |                         |                                      | AVL 1.2M.          |   | DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION |
| 134) | 5925.0000-6425.0000   | H, V, L, R        | 15M0G1W  | Tx         | 60.95                   | 25.21                                | C-ba 2.4M.         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 135) | 5925.0000-6425.0000   | H, V, L, R        | 15M0G7W  | Tx         | 60.95                   | 25.21                                | C-ba 2.4M.         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 136) | 5925.0000-6425.0000   | H, V, L, R        | 44K8G1W  | Tx         | 49.50                   | 39.00                                | C-ba 2.4M.         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 137) | 5925.0000-6425.0000   | H, V, L, R        | 44K8G7W  | Tx         | 49.50                   | 39.00                                | C-ba 2.4M.         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 138) | 3700.0000-4200.0000   | H, V, L, R        | 44K8G1W  | Rx         |                         |                                      | C-ba 2.4M.         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 139) | 3700.0000-4200.0000   | H, V, L, R        | 44K8G7W  | Rx         |                         |                                      | C-ba 2.4M.         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 140) | 3700.0000-4200.0000   | H, V, L, R        | 54M0G1W  | Rx         |                         |                                      | C-ba 2.4M.         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 141) | 3700.0000-4200.0000   | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | C-ba 2.4M.         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 142) | 5925.0000-6425.0000   | H, V, L, R        | 15M0G1W  | Tx         | 60.70                   | 25.00                                | INT V240           |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 143) | 5925.0000-6425.0000   | H, V, L, R        | 15M0G7W  | Tx         | 60.70                   | 25.00                                | INT V240           |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 144) | 5925.0000-6425.0000   | H, V, L, R        | 44K8G1W  | Tx         | 49.50                   | 39.00                                | INT V240           |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 145) | 5925.0000-6425.0000   | H, V, L, R        | 44K8G7W  | Tx         | 49.50                   | 39.00                                | INT V240           |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |
| 146) | 3700.0000-4200.0000   | H, V, L, R        | 44K8G1W  | Rx         |                         |                                      | INT V240           |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION               |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 147) | 3700.0000-4200.0000   | H, V, L, R        | 44K8G7W  | Rx         |                         |                                      | INT V240           |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 148) | 3700.0000-4200.0000   | H, V, L, R        | 54M0G1W  | Rx         |                         |                                      | INT V240           |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 149) | 3700.0000-4200.0000   | H, V, L, R        | 54M0G7W  | Rx         |                         |                                      | INT V240           |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 150) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 37.10                   | 26.60                                | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 151) | 14000.0000-14500.0000 | H, V              | 44K8G7W  | Tx         | 37.10                   | 26.60                                | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 152) | 14000.0000-14500.0000 | H, V              | 5M00G1W  | Tx         | 52.60                   | 21.63                                | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 153) | 14000.0000-14500.0000 | H, V              | 5M00G7W  | Tx         | 52.60                   | 21.63                                | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 154) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 155) | 11450.0000-12200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 156) | 11450.0000-12200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 157) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 158) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 159) | 10950.0000-11200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 160) | 10950.0000-11200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 161) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | INTV100KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 162) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 39.70                   | 29.20                                | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 163) | 14000.0000-14500.0000 | H, V              | 44K8G7W  | Tx         | 39.70                   | 29.20                                | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 164) | 14000.0000-14500.0000 | H, V              | 8M00G1W  | Tx         | 54.40                   | 21.40                                | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 165) | 14000.0000-14500.0000 | H, V              | 8M00G7W  | Tx         | 54.40                   | 21.40                                | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 166) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 167) | 11450.0000-12200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 168) | 11450.0000-12200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 169) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 170) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 171) | 10950.0000-11200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 172) | 10950.0000-11200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 173) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | INTV130KU          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 174) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 44.22                   | 33.72                                | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 175) | 14000.0000-14500.0000 | H, V              | 44K8G7W  | Tx         | 44.22                   | 33.72                                | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 176) | 14000.0000-14500.0000 | H, V              | 8M00G1W  | Tx         | 55.72                   | 22.72                                | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 177) | 14000.0000-14500.0000 | H, V              | 8M00G7W  | Tx         | 55.72                   | 22.72                                | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 178) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 179) | 11450.0000-12200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 180) | 11450.0000-12200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 181) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 182) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 183) | 10950.0000-11200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 184) | 10950.0000-11200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 185) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | MITMVA12K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 186) | 14000.0000-14500.0000 | H, V              | 1M10G1W  | Tx         | 46.34                   | 21.95                                | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 187) | 14000.0000-14500.0000 | H, V              | 1M10G7W  | Tx         | 46.34                   | 21.95                                | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 188) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 34.93                   | 24.43                                | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 189) | 14000.0000-14500.0000 | H, V              | 44K8G7W  | Tx         | 34.93                   | 24.43                                | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 190) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 191) | 11450.0000-12200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 192) | 11450.0000-12200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 193) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 194) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 195) | 10950.0000-11200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 196) | 10950.0000-11200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 197) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | MITMVA60K          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 198) | 14000.0000-14500.0000 | H, V, L, R        | 10M0G1W  | Tx         | 58.84                   | 24.84                                | SA-1.2MFLY         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 199) | 14000.0000-14500.0000 | H, V, L, R        | 10M0G7W  | Tx         | 58.84                   | 24.84                                | SA-1.2MFLY         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 200) | 14000.0000-14500.0000 | H, V, L, R        | 64K0G1W  | Tx         | 40.14                   | 28.10                                | SA-1.2MFLY         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |





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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 201) | 14000.0000-14500.0000 | H, V, L, R        | 64K0G7W  | Tx         | 40.14                   | 28.10                                | SA-1.2MFLY         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 202) | 11700.0000-12200.0000 | H, V, L, R        | 1M00G1W  | Rx         |                         |                                      | SA-1.2MFLY         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 203) | 11700.0000-12200.0000 | H, V, L, R        | 1M00G7W  | Rx         |                         |                                      | SA-1.2MFLY         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 204) | 11700.0000-12200.0000 | H, V, L, R        | 36M0G1W  | Rx         |                         |                                      | SA-1.2MFLY         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 205) | 11700.0000-12200.0000 | H, V, L, R        | 36M0G7W  | Rx         |                         |                                      | SA-1.2MFLY         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 206) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 31.30                   | 20.80                                | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 207) | 14000.0000-14500.0000 | H, V              | 44K8G7W  | Tx         | 31.30                   | 20.80                                | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 208) | 14000.0000-14500.0000 | H, V              | 5M00G1W  | Tx         | 47.40                   | 16.40                                | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 209) | 14000.0000-14500.0000 | H, V              | 5M00G7W  | Tx         | 47.40                   | 16.40                                | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 210) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 211) | 11450.0000-12200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 212) | 11450.0000-12200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 213) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 214) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 215) | 10950.0000-11200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 216) | 10950.0000-11200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 217) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | SAILOR800A         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 218) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 35.80                   | 25.30                                | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
The General Provision 1900 applies to all transmitting frequency bands.  
For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 219) | 14000.0000-14500.0000 | H, V              | 44K8G7W  | Tx         | 35.80                   | 25.30                                | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 220) | 14000.0000-14500.0000 | H, V              | 5M00G1W  | Tx         | 49.80                   | 18.80                                | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 221) | 14000.0000-14500.0000 | H, V              | 5M00G7W  | Tx         | 49.80                   | 18.80                                | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 222) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 223) | 11450.0000-12200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 224) | 11450.0000-12200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 225) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 226) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 227) | 10950.0000-11200.0000 | H, V              | 44K8G7W  | Rx         |                         |                                      | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 228) | 10950.0000-11200.0000 | H, V              | 54M0G1W  | Rx         |                         |                                      | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 229) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | SAILOR900B         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 230) | 14000.0000-14500.0000 | H, V              | 128KG1W  | Tx         | 32.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 231) | 14000.0000-14500.0000 | L, R              | 128KG7W  | Tx         | 32.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 232) | 14000.0000-14500.0000 | H, V              | 1M02G1W  | Tx         | 41.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 233) | 14000.0000-14500.0000 | H, V              | 1M02G7W  | Tx         | 41.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 234) | 14000.0000-14500.0000 | H, V              | 1M28G1W  | Tx         | 42.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 235) | 14000.0000-14500.0000 | H, V              | 1M28G7W  | Tx         | 42.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 236) | 14000.0000-14500.0000 | H, V              | 1M54G1W  | Tx         | 43.20                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 237) | 14000.0000-14500.0000 | H, V              | 1M54G7W  | Tx         | 43.20                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 238) | 14000.0000-14500.0000 | H, V              | 1M79G1W  | Tx         | 43.90                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 239) | 14000.0000-14500.0000 | H, V              | 1M79G7W  | Tx         | 43.90                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 240) | 14000.0000-14500.0000 | H, V              | 256KG1W  | Tx         | 35.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 241) | 14000.0000-14500.0000 | H, V              | 256KG7W  | Tx         | 35.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 242) | 14000.0000-14500.0000 | H, V              | 2M05G1W  | Tx         | 44.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 243) | 14000.0000-14500.0000 | H, V              | 2M05G7W  | Tx         | 44.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 244) | 14000.0000-14500.0000 | H, V              | 2M56G1W  | Tx         | 45.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 245) | 14000.0000-14500.0000 | H, V              | 2M56G7W  | Tx         | 45.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 246) | 14000.0000-14500.0000 | H, V              | 3M07G1W  | Tx         | 46.30                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 247) | 14000.0000-14500.0000 | H, V              | 3M07G7W  | Tx         | 46.30                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 248) | 14000.0000-14500.0000 | H, V              | 3M58G1W  | Tx         | 46.90                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 249) | 14000.0000-14500.0000 | H, V              | 3M58G7W  | Tx         | 46.90                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 250) | 14000.0000-14500.0000 | H, V              | 4M10G1W  | Tx         | 47.30                   | 17.20                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 251) | 14000.0000-14500.0000 | H, V              | 4M10G7W  | Tx         | 47.30                   | 17.20                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 252) | 14000.0000-14500.0000 | H, V              | 512KG1W  | Tx         | 38.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 253) | 14000.0000-14500.0000 | H, V              | 512KG7W  | Tx         | 38.50                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 254) | 14000.0000-14500.0000 | H, V              | 768KG1W  | Tx         | 40.20                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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**RADIO STATION AUTHORIZATION**

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 255) | 14000.0000-14500.0000 | H, V              | 768KG7W  | Tx         | 40.20                   | 17.40                                | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 256) | 11450.0000-12200.0000 | H, V              | 1M00G1W  | Rx         |                         |                                      | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 257) | 11450.0000-12200.0000 | H, V              | 1M00G7W  | Rx         |                         |                                      | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 258) | 11450.0000-12200.0000 | H, V              | 45M0G1W  | Rx         |                         |                                      | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 259) | 11450.0000-12200.0000 | H, V              | 45M0G7W  | Rx         |                         |                                      | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 260) | 10950.0000-11200.0000 | H, V              | 1M00G1W  | Rx         |                         |                                      | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 261) | 10950.0000-11200.0000 | H, V              | 1M00G7W  | Rx         |                         |                                      | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 262) | 10950.0000-11200.0000 | H, V              | 45M0G1W  | Rx         |                         |                                      | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 263) | 10950.0000-11200.0000 | H, V              | 45M0G7W  | Rx         |                         |                                      | STLUSAT30          |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 264) | 14000.0000-14500.0000 | H, V              | 151KG7W  | Tx         | 41.70                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 265) | 14000.0000-14500.0000 | H, V              | 194KG7W  | Tx         | 42.80                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 266) | 14000.0000-14500.0000 | H, V              | 1M43G1W  | Tx         | 51.40                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 267) | 14000.0000-14500.0000 | H, V              | 291KG7W  | Tx         | 44.50                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 268) | 14000.0000-14500.0000 | H, V              | 2M35G1W  | Tx         | 53.40                   | 25.70                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 269) | 14000.0000-14500.0000 | H, V              | 388KG7W  | Tx         | 45.80                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 270) | 14000.0000-14500.0000 | H, V              | 445KG7W  | Tx         | 46.40                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 271) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 36.40                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 272) | 14000.0000-14500.0000 | H, V              | 452KG7W  | Tx         | 46.40                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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**RADIO STATION AUTHORIZATION**

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 273) | 14000.0000-14500.0000 | H, V              | 717KG1W  | Tx         | 48.40                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 274) | 14000.0000-14500.0000 | H, V              | 81K0G7W  | Tx         | 39.00                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 275) | 14000.0000-14500.0000 | H, V              | 89K6G1W  | Tx         | 39.40                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 276) | 14000.0000-14500.0000 | H, V              | 97K0G7W  | Tx         | 39.70                   | 25.90                                | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 277) | 11450.0000-12200.0000 | H, V              | 1M43G1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 278) | 11450.0000-12200.0000 | H, V              | 2M35G1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 279) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 280) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 281) | 11450.0000-12200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 282) | 11450.0000-12200.0000 | H, V              | 81K0G7W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 283) | 11450.0000-12200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 284) | 10950.0000-11200.0000 | H, V              | 1M43G1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 285) | 10950.0000-11200.0000 | H, V              | 2M35G1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 286) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 287) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 288) | 10950.0000-11200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 289) | 10950.0000-11200.0000 | H, V              | 81K0G7W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 290) | 10950.0000-11200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | T&TSAIL900         |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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**RADIO STATION AUTHORIZATION**

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Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 291) | 14000.0000-14500.0000 | H, V              | 194KG7W  | Tx         | 42.40                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 292) | 14000.0000-14500.0000 | H, V              | 1M16G7W  | Tx         | 49.80                   | 25.20                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 293) | 14000.0000-14500.0000 | H, V              | 1M36G7W  | Tx         | 49.80                   | 24.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 294) | 14000.0000-14500.0000 | H, V              | 1M55G7W  | Tx         | 49.80                   | 23.90                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 295) | 14000.0000-14500.0000 | H, V              | 291KG7W  | Tx         | 44.10                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 296) | 14000.0000-14500.0000 | H, V              | 388KG7W  | Tx         | 45.40                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 297) | 14000.0000-14500.0000 | H, V              | 44K8G1W  | Tx         | 36.00                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 298) | 14000.0000-14500.0000 | H, V              | 485KG7W  | Tx         | 46.30                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 299) | 14000.0000-14500.0000 | H, V              | 582KG7W  | Tx         | 47.10                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 300) | 14000.0000-14500.0000 | H, V              | 64K0G7W  | Tx         | 37.50                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 301) | 14000.0000-14500.0000 | H, V              | 679KG7W  | Tx         | 47.80                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 302) | 14000.0000-14500.0000 | H, V              | 717KG1W  | Tx         | 48.00                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 303) | 14000.0000-14500.0000 | H, V              | 776KG7W  | Tx         | 48.40                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 304) | 14000.0000-14500.0000 | H, V              | 89K6G1W  | Tx         | 39.00                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 305) | 14000.0000-14500.0000 | H, V              | 970KG7W  | Tx         | 49.30                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 306) | 14000.0000-14500.0000 | H, V              | 97K0G7W  | Tx         | 39.30                   | 25.50                                | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 307) | 11450.0000-12200.0000 | H, V              | 151KG7W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 308) | 11450.0000-12200.0000 | H, V              | 2M60G7W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |



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**RADIO STATION AUTHORIZATION**

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File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
 The General Provision 1900 applies to all transmitting frequency bands.  
 For the text of these provisions, refer to Section H.

| #    | Frequency (MHz)       | Polarization Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services                           |
|------|-----------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|--|
| 309) | 11450.0000-12200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 310) | 11450.0000-12200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 311) | 11450.0000-12200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 312) | 11450.0000-12200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 313) | 10950.0000-11200.0000 | H, V              | 151KG7W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 314) | 10950.0000-11200.0000 | H, V              | 2M60G7W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 315) | 10950.0000-11200.0000 | H, V              | 44K8G1W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 316) | 10950.0000-11200.0000 | H, V              | 54M0G7W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 317) | 10950.0000-11200.0000 | H, V              | 717KG1W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 318) | 10950.0000-11200.0000 | H, V              | 89K6G1W  | Rx         |                         |                                      | V1110              |   | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |

**C) Frequency Coordination Limits**

| #  | Frequency Limits (MHz) | Satellite Arc (Deg. Long.) |            | Elevation (Degrees) |            | Azimuth (Degrees) |            | Max EIRP Density toward Horizon (dBW/4kHz) | Associated Antenna(s) |
|----|------------------------|----------------------------|------------|---------------------|------------|-------------------|------------|--|-----------------------|
|    |                        | East Limit                 | West Limit | East Limit          | West Limit | East Limit        | West Limit |  |                       |
| 1) | 14000.0000-14500.0000  | 3.0W                       | -125.0W    | 10.0                | -10.0      | 090.0             | -270.0     | 4996T                                      |                       |
| 2) | 11450.0000-12200.0000  | 3.0W                       | -125.0W    | 10.0                | -10.0      | 090.0             | -270.0     | 4996T                                      |                       |
| 3) | 10950.0000-11200.0000  | 3.0W                       | -125.0W    | 10.0                | -10.0      | 090.0             | -270.0     | 4996T                                      |                       |
| 4) | 11700.0000-12200.0000  |                            |            |                     |            |                   |            | .75M.                                      |                       |
| 5) | 14000.0000-14500.0000  |                            |            |                     |            |                   |            | .75M.                                      |                       |
| 6) | 11700.0000-12200.0000  |                            |            |                     |            |                   |            | .90M.                                      |                       |
| 7) | 14000.0000-14500.0000  |                            |            |                     |            |                   |            | .90M.                                      |                       |
| 8) | 11700.0000-12200.0000  |                            |            |                     |            |                   |            | .96M.                                      |                       |



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**RADIO STATION AUTHORIZATION**

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Authorization Type: Modification of License

File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

**C) Frequency Coordination Limits**

| #   | Frequency Limits<br>(MHz) | Satellite Arc<br>(Deg. Long.) |               | Elevation<br>(Degrees) |               | Azimuth<br>(Degrees) |               | Max EIRP<br>Density toward<br>Horizon<br>(dBW/4kHz) | Associated<br>Antenna(s) |
|-----|---------------------------|-------------------------------|---------------|------------------------|---------------|----------------------|---------------|---|--------------------------|
|     |                           | East<br>Limit                 | West<br>Limit | East<br>Limit          | West<br>Limit | East<br>Limit        | West<br>Limit |   |                          |
| 9)  | 14000.0000-14500.0000     |                               |               |                        |               |                      |               |   | .96M.                    |
| 10) | 14000.0000-14500.0000     | 3.0W                          | -125.0W       | 10.0                   | -10.0         | 090.0                | -270.0        |   | 4003A                    |
| 11) | 11450.0000-12200.0000     | 3.0W                          | -125.0W       | 10.0                   | -10.0         | 090.0                | -270.0        |   | 4003A                    |
| 12) | 10950.0000-11200.0000     | 3.0W                          | -125.0W       | 10.0                   | -10.0         | 090.0                | -270.0        |   | 4003A                    |
| 13) | 14000.0000-14500.0000     |                               |               |                        |               |                      |               |   | STLUSAT30                |
| 14) | 11450.0000-12200.0000     |                               |               |                        |               |                      |               |   | STLUSAT30                |
| 15) | 10950.0000-11200.0000     |                               |               |                        |               |                      |               |   | STLUSAT30                |
| 16) | 14000.0000-14500.0000     |                               |               |                        |               |                      |               |   | T&TSAIL900               |
| 17) | 11450.0000-12200.0000     |                               |               |                        |               |                      |               |   | T&TSAIL900               |
| 18) | 10950.0000-11200.0000     |                               |               |                        |               |                      |               |   | T&TSAIL900               |
| 19) | 5925.0000-6425.0000       |                               |               |                        |               |                      |               |   | C-ba 2.4M.               |
| 20) | 3700.0000-4200.0000       |                               |               |                        |               |                      |               |   | C-ba 2.4M.               |
| 21) | 5925.0000-6425.0000       |                               |               |                        |               |                      |               |   | INT V240                 |
| 22) | 3700.0000-4200.0000       |                               |               |                        |               |                      |               |   | INT V240                 |
| 23) | 5925.0000-6425.0000       |                               |               |                        |               |                      |               |   | 9711QOR-C                |
| 24) | 3700.0000-4200.0000       |                               |               |                        |               |                      |               |   | 9711QOR-C                |
| 25) | 14000.0000-14500.0000     |                               |               |                        |               |                      |               |   | 9711QORKU                |
| 26) | 10950.0000-11200.0000     |                               |               |                        |               |                      |               |   | 9711QORKU                |
| 27) | 11450.0000-12200.0000     |                               |               |                        |               |                      |               |   | 9711QORKU                |
| 28) | 14000.0000-14500.0000     |                               |               |                        |               |                      |               |   | INTV100KU                |
| 29) | 10950.0000-11200.0000     |                               |               |                        |               |                      |               |   | INTV100KU                |
| 30) | 11450.0000-12200.0000     |                               |               |                        |               |                      |               |   | INTV100KU                |
| 31) | 14000.0000-14500.0000     |                               |               |                        |               |                      |               |   | INTV130KU                |
| 32) | 11450.0000-12200.0000     |                               |               |                        |               |                      |               |   | INTV130KU                |
| 33) | 10950.0000-11200.0000     |                               |               |                        |               |                      |               |   | INTV130KU                |
| 34) | 14000.0000-14500.0000     |                               |               |                        |               |                      |               |   | MITMVA60K                |
| 35) | 11450.0000-12200.0000     |                               |               |                        |               |                      |               |   | MITMVA60K                |
| 36) | 10950.0000-11200.0000     |                               |               |                        |               |                      |               |   | MITMVA60K                |
| 37) | 14000.0000-14500.0000     |                               |               |                        |               |                      |               |   | MITMVA12K                |
| 38) | 11450.0000-12200.0000     |                               |               |                        |               |                      |               |   | MITMVA12K                |
| 39) | 10950.0000-11200.0000     |                               |               |                        |               |                      |               |   | MITMVA12K                |
| 40) | 11700.0000-12200.0000     | 3.0W                          | -112.0W       | 06.0                   | -28.1         | 103.3                | -230.4        |   | (Hub) 1.2M.              |
| 41) | 14000.0000-14500.0000     | 3.0W                          | -112.0W       | 06.0                   | -28.1         | 103.3                | -230.4        | 2.64  | (Hub) 1.2M.              |
| 42) | 14000.0000-14500.0000     | 3.0W                          | -125.0W       | 10.0                   | -10.0         | 090.0                | -270.0        |   | 4006                     |





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Common Carrier

Grant date: 04/25/2016

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**C) Frequency Coordination Limits**

| #   | Frequency Limits<br>(MHz) | Satellite Arc<br>(Deg. Long.) |               | Elevation<br>(Degrees) |               | Azimuth<br>(Degrees) |               | Max EIRP<br>Density toward<br>Horizon<br>(dBW/4kHz) | Associated<br>Antenna(s) |
|-----|---------------------------|-------------------------------|---------------|------------------------|---------------|----------------------|---------------|---|--------------------------|
|     |                           | East<br>Limit                 | West<br>Limit | East<br>Limit          | West<br>Limit | East<br>Limit        | West<br>Limit |   |                          |
| 43) | 11450.0000-12200.0000     | 3.0W-125.0W                   |               | 10.0-10.0              |               | 090.0-270.0          |               |   | 4006                     |
| 44) | 10950.0000-11200.0000     | 3.0W-125.0W                   |               | 10.0-10.0              |               | 090.0-270.0          |               |   | 4006                     |
| 45) | 14000.0000-14500.0000     |                               |               | 05.0-05.0              |               |                      |               |   | SAILOR900B               |
| 46) | 10950.0000-12200.0000     |                               |               | 05.0-05.0              |               |                      |               |   | SAILOR900B               |
| 47) | 14000.0000-14500.0000     | 64.0W-144.0W                  |               | 05.0-05.0              |               |                      |               |   | SA-1.2MFLY               |
| 48) | 11700.0000-12200.0000     | 64.0W-144.0W                  |               | 05.0-05.0              |               |                      |               |   | SA-1.2MFLY               |
| 49) | 14000.0000-14500.0000     |                               |               | 05.0-05.0              |               |                      |               |   | 6006/09/12               |
| 50) | 10950.0000-12200.0000     |                               |               | 05.0-05.0              |               |                      |               |   | 6006/09/12               |
| 51) | 14000.0000-14500.0000     |                               |               | 05.0-05.0              |               |                      |               |   | SAILOR800A               |
| 52) | 10950.0000-12200.0000     |                               |               | 05.0-05.0              |               |                      |               |   | SAILOR800A               |

**D) Points of Communications**

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) ESV/4996T to Permitted Space Station List
- 2) ESV/4996T to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 3) ESV/4996T to INTELSAT 705 satellites @ 50 W.L. of the INTELSAT system (U.S.-licensed)
- 4) Remote 1.2m AVL to Permitted Space Station List
- 5) ESV/V110 to Permitted Space Station List
- 6) REMOTE 1 to Permitted Space Station List
- 7) REMOTE 3 (2.4M) to Permitted Space Station List
- 8) REMOTE .75 M to New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
- 9) REMOTE .90 M to New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
- 10) REMOTE .96 M to New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
- 11) ESV/4003A to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 12) ESV/4003A to Permitted Space Station List
- 13) ESV/4003A to INTELSAT 705 satellites @ 50 W.L. of the INTELSAT system (U.S.-licensed)
- 14) (Ku) ESVREMOTE .75M to Permitted Space Station List
- 15) (Ku) ESV TTSAIL900 to Permitted Space Station List
- 16) (C-ba) ESV9707/97/11 to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 17) (C-ba) ESV9707/97/11 to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 18) ESV/INTV240 to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 19) ESV/INTV240 to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 20) ESV/9711QOR-C to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)



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**RADIO STATION AUTHORIZATION**

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

**D) Points of Communications**

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 21) ESV/9711QOR-C to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 22) ESV/9711QOR-KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 23) ESV/9711QOR-KU to Permitted Space Station List
- 24) ESV/9711QOR-KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 25) ESV/INTV100KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 26) ESV/INTV100KU to Permitted Space Station List
- 27) ESV/INTV100KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 28) ESV/INTV130KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 29) ESV/INTV130KU to Permitted Space Station List
- 30) ESV/INTV130KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 31) ESV/MIT/MVA60KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 32) ESV/MIT/MVA60KU to Permitted Space Station List
- 33) ESV/MIT/MVA60KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 34) ESV/MIT/MVA120KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 35) ESV/MIT/MVA120KU to Permitted Space Station List
- 36) ESV/MIT/MVA120KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 37) REMOTE 2 to Permitted Space Station List
- 38) ESV/4006 to Permitted Space Station List
- 39) ESV/4006 to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 40) ESV/4006 to INTELSAT 705 satellites @ 50 W.L. of the INTELSAT system (U.S.-licensed)
- 41) (Ku) ESV REMOTE900B to Permitted Space Station List
- 42) REMOTE 1.2MSINAERO to Permitted Space Station List
- 43) (Ku) ESV REMOTE800A to Permitted Space Station List
- 44) (Ku) ESV REMOTE6006 to Permitted Space Station List

**E) Antenna Facilities**

| Site ID  | Antenna ID  | Units       | Diameter (meters) | Manufacturer | Model number | Site Elevation (Meters) | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |
|--|-------------|-------------|-------------------|--------------|--------------|-------------------------|-----------------------------|---|
| Hub 1.2M (Ku)  | (Hub) 1.2M. | 1           | 1.2               | PRODELIN     | 1123         | 36.6                    | 2 AGL/ 37.6 AMSL            |   |
| Max Gains(s):  |             | 41.7 dBi @  | 11.9500 GHz       | 43.3 dBi @   | 14.2500 GHz  | 41.7 dBi @              |                             |   |
|  |             | 11.9500 GHz | 43.3 dBi @        | 14.2500 GHz  |              |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |             |             |                   |              | 100.00       |                         |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |             |             |                   |              | 63.30        |                         |                             |   |



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**E) Antenna Facilities**

| Site ID  | Antenna ID | Units      | Diameter (meters) | Manufacturer | Model number | Site Elevation (Meters) | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |
|--|------------|------------|-------------------|--------------|--------------|-------------------------|-----------------------------|---|
| REMOTE .75 M   | .75M.      | 100        | 0.75              | VISIOSAT     | VISIOSAT 75  |                         | 2 AGL                       |   |
| Max Gains(s):  |            | 37.5 dBi @ | 11.9500 GHz       | 39.0 dBi @   | 14.2500 GHz  |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |              | 11.20                   |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |              | 49.50                   |                             |   |
| REMOTE .90 M   | .90M.      | 250        | 0.9               | VISIOSAT     | VISIOSAT 90  |                         |                             |   |
| Max Gains(s):  |            | 38.7 dBi @ | 11.9500 GHz       | 40.1 dBi @   | 14.2500 GHz  |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |              | 11.20                   |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |              | 50.60                   |                             |   |
| REMOTE .96 M   | .96M.      | 500        | 0.96              | ANDREW       | TYPE 960     |                         | 2 AGL                       |   |
| Max Gains(s):  |            | 39.7 dBi @ | 11.9500 GHz       | 41.2 dBi @   | 14.2500 GHz  |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |              | 11.20                   |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |              | 51.70                   |                             |   |
| REMOTE 1   | 1.2M.      | 1000       | 1.2               | ANDREW       | 123/124      |                         | 2.5 AGL                     |   |
| Max Gains(s):  |            |            |                   |              |              |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |              | 100.00                  |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |              | 63.30                   |                             |   |
| REMOTE 2   | 1.8M.      | 1000       | 1.8               | ANDREW       | 183          |                         | 3.1 AGL                     |   |
| Max Gains(s):  |            | 44.0 dBi @ | 11.0000 GHz       | 46.0 dBi @   | 14.0000 GHz  |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |              | 100.00                  |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |              | 66.50                   |                             |   |
| REMOTE 3<br>(2.4M)                                     | 2.4M.      | 500        | 2.4               | ANDREW       | 243          |                         | 3.7 AGL                     |   |
| Max Gains(s):  |            | 47.0 dBi @ | 11.0000 GHz       | 49.0 dBi @   | 14.0000 GHz  |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |              | 100.00                  |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |              | 69.20                   |                             |   |



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**E) Antenna Facilities**

| Site ID  | Antenna ID | Units      | Diameter (meters) | Manufacturer | Model number   | Site Elevation (Meters) | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |
|--|------------|------------|-------------------|--------------|----------------|-------------------------|-----------------------------|---|
| ESV/4003A  | 4003A      | 250        | 1                 | SEATEL       | 4003A          |                         |                             |   |
| Max Gains(s):  |            | 40.1 dBi @ | 11.9500 GHz       | 41.8 dBi @   | 14.2500 GHz    |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                | 2.50                    |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                | 45.80                   |                             |   |
| ESV/4006   | 4006       | 250        | 1                 | SEATEL       | 4006           |                         |                             |   |
| Max Gains(s):  |            | 40.1 dBi @ | 11.9500 GHz       | 41.8 dBi @   | 14.2500 GHz    |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                | 3.60                    |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                | 47.40                   |                             |   |
| ESV/4996T  | 4996T      | 50         | 1.2               | SEATEL       | 4996T          |                         |                             |   |
| Max Gains(s):  |            | 41.6 dBi @ | 11.9500 GHz       | 42.5 dBi @   | 14.2500 GHz    |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                | 7.10                    |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                | 51.10                   |                             |   |
| (Ku) ESV<br>REMOTE6006                                 | 6006/09/12 | 500        | 1.5               | SEA TEL      | 6006/6009/6012 |                         |                             |   |
| Max Gains(s):  |            | 41.4 dBi @ | 12.2000 GHz       | 45.1 dBi @   | 14.2500 GHz    |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                | 85.11                   |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                | 64.40                   |                             |   |
| ESV/9711QOR-   | 9711QOR-C  | 500        | 2.4               | SEA TEL      | 9711QOR-C      |                         |                             |   |
| Max Gains(s):  |            | 38.5 dBi @ | 3.9500 GHz        | 41.7 dBi @   | 6.1800 GHz     |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                | 84.14                   |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                | 60.95                   |                             |   |
| ESV/9711QOR-   | 9711QORKU  | 500        | 1.2               | SEA TEL      | 9711QOR-KU     |                         |                             |   |
| Max Gains(s):  |            | 43.0 dBi @ | 14.2500 GHz       | 43.8 dBi @   | 12.2000 GHz    |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                | 21.19                   |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                | 56.26                   |                             |   |



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**E) Antenna Facilities**

| Site ID  | Antenna ID | Units      | Diameter (meters) | Manufacturer | Model number   | Site Elevation (Meters) | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |  |
|--|------------|------------|-------------------|--------------|----------------|-------------------------|-----------------------------|---|--|
| Remote 1.2m AVL  | AVL 1.2M.  | 1000       | 1.2               | AVL          | 1.2M Ku-band   |                         | 2.5 AGL                     |   |  |
| Max Gains(s):  |            | 42.0 dBi @ | 11.8500 GHz       | 43.2 dBi @   | 14.2500 GHz    |                         |                             |   |  |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                |                         | 35.70                       |   |  |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                |                         | 58.70                       |   |  |
| (C-ba) ESV9707/97/11                                   | C-ba 2.4M. | 500        | 2.4               | SEA TEL      | 9707/9797/9711 |                         |                             |   |  |
| Max Gains(s):  |            | 38.5 dBi @ | 3.9500 GHz        | 41.7 dBi @   | 6.1800 GHz     |                         |                             |   |  |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                |                         | 84.14                       |   |  |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                |                         | 60.95                       |   |  |
| ESV/INTV240  | INT V240   | 500        | 2.4               | INTELLIAN    | V240           |                         |                             |   |  |
| Max Gains(s):  |            | 37.7 dBi @ | 3.9100 GHz        | 41.7 dBi @   | 6.1400 GHz     |                         |                             |   |  |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                |                         | 79.43                       |   |  |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                |                         | 60.70                       |   |  |
| ESV/INTV100K   | INTV100KU  | 500        | 1.06              | INTELLIAN    | V100           |                         |                             |   |  |
| Max Gains(s):  |            | 41.2 dBi @ | 14.2500 GHz       | 39.8 dBi @   | 11.8500 GHz    |                         |                             |   |  |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                |                         | 13.80                       |   |  |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                |                         | 52.60                       |   |  |
| ESV/INTV130K   | INTV130KU  | 500        | 1.25              | INTELLIAN    | V130           |                         |                             |   |  |
| Max Gains(s):  |            | 43.2 dBi @ | 14.2500 GHz       | 41.6 dBi @   | 11.8500 GHz    |                         |                             |   |  |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                |                         | 13.18                       |   |  |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                |                         | 54.40                       |   |  |
| ESV/MIT/MVA1   | MITMVA12K  | 500        | 1.2               | MITSUBISHI   | MVA120         |                         |                             |   |  |
| Max Gains(s):  |            | 47.7 dBi @ | 14.2500 GHz       | 41.6 dBi @   | 11.7000 GHz    |                         |                             |   |  |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |                |                         | 6.31                        |   |  |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |                |                         | 55.72                       |   |  |



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Common Carrier

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**E) Antenna Facilities**

| Site ID  | Antenna ID | Units      | Diameter (meters) | Manufacturer    | Model number            | Site Elevation (Meters) | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |
|--|------------|------------|-------------------|-----------------|-------------------------|-------------------------|-----------------------------|---|
| ESV/MIT/MVA6   | MITMVA60K  | 500        | 0.6               | mitsubishi      | MVA60                   |                         |                             |   |
| Max Gains(s):  |            | 38.4 dBi @ | 14.2500 GHz       | 35.3 dBi @      | 11.7000 GHz             |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |                 |                         | 6.18                    |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |                 |                         | 46.34                   |                             |   |
| REMOTE<br>1.2MSINAERO                                  | SA-1.2MFLY | 500        | 1.2               | SINAERO         | SA-1.2TFLY              |                         |                             |   |
| Max Gains(s):  |            | 41.5 dBi @ | 12.2000 GHz       | 42.1 dBi @      | 14.2500 GHz             |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |                 |                         | 47.20                   |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |                 |                         | 58.84                   |                             |   |
| (Ku) ESV<br>REMOTE6006                                 | SAILOR800A | 500        | 0.83              | THRANE & THRANE | TT-7080A SAILOR<br>800A |                         |                             |   |
| Max Gains(s):  |            | 37.9 dBi @ | 11.7000 GHz       | 40.0 dBi @      | 14.2500 GHz             |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |                 |                         | 5.50                    |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |                 |                         | 47.40                   |                             |   |
| (Ku) ESV<br>REMOTE900B                                 | SAILOR900B | 500        | 1                 | THRANE & THRANE | TT-7090B SAILOR<br>900B |                         |                             |   |
| Max Gains(s):  |            | 40.2 dBi @ | 11.7000 GHz       | 41.1 dBi @      | 14.2500 GHz             |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |                 |                         | 7.44                    |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |                 |                         | 49.81                   |                             |   |
| (Ku)<br>ESVREMOTE<br>.75M                              | STLUSAT30  | 500        | 0.75              | SEA TEL         | USAT-30                 |                         |                             |   |
| Max Gains(s):  |            | 37.6 dBi @ | 11.8500 GHz       | 39.0 dBi @      | 14.2500 GHz             |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |                 |                         | 6.70                    |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |                 |                         | 47.30                   |                             |   |
| (Ku) ESV<br>TTSAIL900                                  | T&TSAIL900 | 500        | 1                 | THRANE & THRANE | TT-7090A                |                         |                             |   |
| Max Gains(s):  |            | 40.0 dBi @ | 11.7500 GHz       | 41.7 dBi @      | 14.2500 GHz             |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |                 |                         | 14.93                   |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |                 |                         | 53.44                   |                             |   |



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Common Carrier

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**E) Antenna Facilities**

| Site ID  | Antenna ID | Units      | Diameter (meters) | Manufacturer | Model number | Site Elevation (Meters) | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |
|--|------------|------------|-------------------|--------------|--------------|-------------------------|-----------------------------|---|
| ESV/V110   | V1110      | 500        | 1.05              | INTELLIAN    | V110         |                         |                             |   |
| Max Gains(s):  |            | 39.6 dBi @ | 12.2000 GHz       | 41.7 dBi @   | 14.2500 GHz  |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   | 6.97         |              |                         |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   | 49.83        |              |                         |                             |   |

**F) Remote Control Point:**

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|                           |   |                  |
|---------------------------|---|------------------|
| (C-ba)<br>ESV9707/97/11   | 2120 RIVER ROAD<br><br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5000                             | Call Sign: KA313 |
| (Ku) ESV<br>REMOTE6006    | 2120 RIVER ROAD, (0.83M. SAILOR 800A)<br><br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5010       | Call Sign: KA313 |
| (Ku) ESV<br>REMOTE6006    | 2120 RIVER ROAD, (1.5M. SEA TEL 6006/09/12)<br><br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5010 | Call Sign: KA313 |
| (Ku) ESV<br>REMOTE900B    | 2120 RIVER ROAD, (1.0M. SAILOR 900B)<br><br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5010        | Call Sign: KA313 |
| (Ku)<br>ESVREMOTE<br>.75M | 2120 RIVER ROAD, SOUTHBURY<br><br>NEW HAVEN, CT 06488<br>203-262-5000                             | Call Sign: KA313 |



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**F) Remote Control Point:**

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|              |  |                  |
|--------------|--|------------------|
| ESV/4003A    | 2120 RIVER ROAD<br>SOUTHBURY, NEW HAVEN, CT 06488<br>203-262-5000                  | Call Sign: N/A   |
| ESV/4006     | 2120 RIVER ROAD<br>SOUTHBURY, NEW HAVEN, CT 06488<br>203-262-5000                  | Call Sign: N/A   |
| ESV/4996T    | 2120 RIVER ROAD<br>SOUTHBURY, NEW HAVEN, CT 06488<br>203-262-5000                  | Call Sign: N/A   |
| ESV/9711QOR  | 2120 RIVER ROAD, (2.4M C-BAND)<br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5000   | Call Sign: KA313 |
| ESV/9711QOR  | 2120 RIVER ROAD, (1.2M KU-BAND)<br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5000  | Call Sign: KA313 |
| ESV/INTV100F | 2120 RIVER ROAD, (1.06M KU-BAND)<br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5000 | Call Sign: KA313 |
| ESV/INTV130F | 2120 RIVER ROAD, (1.25M KU-BAND)<br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5000 | Call Sign: KA313 |
| ESV/INTV240  | 2120 RIVER ROAD<br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5000                  | Call Sign: KA313 |
| ESV/MIT/MVA  | 2120 RIVER ROAD, (1.2M KU-BAND)<br>SOUTHBURY, NEW HAVEN, CT 96488<br>203-262-5000  | Call Sign: KA313 |





UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
**RADIO STATION AUTHORIZATION**

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00704

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

**F) Remote Control Point:**

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ESV/MIT/MVA 2120 RIVER ROAD, (0.6M KU-BAND)

Call Sign: KA313

SOUTHBURY, NEW HAVEN, CT 96488

203-262-5000

ESV/V110 2120 RIVER ROAD

Call Sign: N/A

SOUTHBURY, NEW HAVE, CT 06488

203-262-8722

REMOTE .75  
M 2120 RIVER ROAD

Call Sign: N/A

SOUTHBURY, NEW HAVEN, CT 06488

203-262-5010

REMOTE .90  
M 2120 RIVER ROAD

Call Sign: N/A

SOUTHBURY, NEW HAVEN, CT 06488

203-262-5010

REMOTE .96  
M 2120 RIVER ROAD

Call Sign: N/A

SOUTHBURY, NEW HAVEN, CT 06488

203-262-5010

REMOTE 1 2120 RIVER ROAD

Call Sign: KA313

SOUTHBURY, NEW HAVEN, CT 06488

203-262-5010

REMOTE 2120 RIVER ROAD, (1.2M. FLYAWAY)  
1.2MSINAERO

Call Sign: KA313

SOUTHBURY, NEW HAVEN, CT 96488

203-262-5010

REMOTE 2 2120 RIVER ROAD

Call Sign: N/A

SOUTHBURY, NEW HAVEN, CT 06488

203-262-5010



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**F) Remote Control Point:**

REMOTE 3 2120 RIVER ROAD  
(2.4M)

Call Sign: N/A

SOUTHBURY, NEW HAVEN, CT 06488  
203-262-5010

Remote 1.2m 2120 River Road  
AVL

Call Sign: N/A

Southbury, New Haven, CT 06488  
203-262-8722

**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions

**H) Special and General Provisions**

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

102 --- 24 Hour Contact: Applicant has provided the name and telephone number of a contact person in the United States, available seven days a week, twenty-four hours a day, for cessation of emissions from suspected source of interference in the event of need to resolve interference issues, on direction from authority with jurisdiction for licensing in the area of operation.

105 --- Subject to Rule Making: This license is subject to the outcome of any future rule making concerning ESV operations. Grant of this authorization shall not prejudice the outcome of any rulemaking.

167 --- This authorization is limited to the total number of terminals listed in Section A of this license for this Site ID.

249 --- This license is granted authority to provide services for both Earth Stations on-board Vessels (ESV) and VSAT Network.

372 --- IN THE BAND 3600-3650 MHZ, IN ACCORDANCE WITH US245. i) AN EMC ANALYSIS BASIS ON THE NTIA TR-99-361 REPORT WAS PERFORMED BY THE NON-GOVERNMENT APPLICANT AND THE NON-GOVERNMENT APPLICANT AGREES TO ACCEPT THIS POTENTIAL FOR UNACCEPTABLE INTERFERENCE, AND ii) THESE FIXED-SATELLITE SERVICE OPERATIONS ARE LIMITED TO INTERNATIONAL INTER-CONTINENTAL SYSTEMS (S816)\$

1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.



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Grant date: 04/25/2016

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## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.

2038 --- The licensee shall take extraordinary measures to ensure that the antenna does not create the potential for exposure of persons who may be within the immediate vicinity to radiofrequency radiation in excess of FCC safety guidelines. The earth station antenna shall be surrounded by a fence, at least 2 meters tall with a locked gate, to prevent human exposure in excess of the FCC-specified safety limit of 1 mW/cm<sup>2</sup>. Warning signs, such as those discussed in the FCC's OET Bulletin 65, shall be posted informing members of the public to keep outside the locked area.

2300 --- Authority is granted to operate this station by remote control provided that: (1) the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).

2627 --- All services are interconnected to the Public Switched Network.

2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.

3212 --- The licensee shall take extraordinary measures to ensure that multiple antennas co-located at the same site do not create potential exposure to radiofrequency radiation in excess of FCC safety guidelines. Antennas shall be surrounded by a fence, at least 2 meters tall with a locked gate, to prevent human exposure in excess of the FCC-specified safety limit of 1 mW/cm<sup>2</sup>. Warning signs, such as those discussed in the FCC's OET Bulletin 65, shall be posted informing members of the public to keep outside the locked area. All operations must be in compliance with Section 1.1307 (b)(3) of the Commission's Rules. (See 47 CFR 1.1307 (b) (3)).

3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).

3853 --- The use of the bands 10.95-11.2 GHz and 11.45-11.7 GHz in the fixed-satellite service is limited to international systems.

4203 --- The grant of this license is pursuant to NG104.



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Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2025

## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 4325 --- Frequencies in the L-bands will be used only for occasional testing of the L-to-C and C-to-L INMARSAT or INMARSAT Ltd. satellite transponders, frequency translation error correction, and network coordination purposes.
- 4334 --- NG182 In the bands 10.95-11.2 GHz and 11.45-11.7 GHz, earth stations on vessels (ESV) may be authorized to communicate with U.S. earth stations through space stations of the fixed satellite service but must accept interference from terrestrial systems operating in accordance with Commission Rules.
- 5014 --- With respect to potential co-channel interference to or from terrestrial microwave radio stations, the transmit and receive frequency bands listed in this license have been cleared for transmissions to and from satellites located in the geostationary or non-geostationary orbit for the emissions designated in Section B of this license.
- 5015 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and that the station is operational including the date of commencement of service and will remain operational during the license period unless the license is submitted for cancellation.
- 5058 --- All operations shall be conducted on a common carrier basis and shall comply with the Commission's decisions in CC Docket No. 87-75 and General Docket 84-1234.
- 5062 --- the Licensee(s) shall maintain as its first priority the service of maritime commercial, safety and distress needs, and in particular uphold the safety and distress requirements of the Global Maritime Distress and Safety System.
- 5208 --- The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- 5215 --- All operations shall be on a common carrier basis.
- 5241 --- The use of the frequency bands 10950 - 11200 and 11450 - 11700 MHz in the fixed satellite service is limited to international service.
- 5417 --- The remotes in this authorization are limited to communicate with NSS-7 satellite only.



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## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 5418 --- The user must provide the NAVAL ELECTROMAGNETIC SPECTRUM CENTER(703-325-2750) a 24hr phone number which would be contacted when national defense and US naval operation requirements necessitate immediate cessation of operations. The licensee is aware that they would be required to temporarily cease satellite operations on these frequencies until notified otherwise.
- 5630 --- International services shall be consistent with this emission designator, the underlying title III application(s) and the acquisition of any necessary Section 214 authority.
- 5813 --- This authorization is issued pursuant to and subject to the terms and conditions in the Commission's Order released March 19, 1991, DA 91-303.
- 5814 --- This authorization is issued pursuant to and subject to the terms and conditions in the Commission's Order released July 8, 1996, DA 96-1079, and Erratum released July 9, 1996.
- 5830 --- This authorization is subject to the conditions and terms set forth in the Commission's Memorandum Opinion, Order and Authorization, FCC 01-272, released October 9, 2001 (INMARSAT Ltd. Order).
- 5880 --- Use of this facility to provide international service on a common carrier basis requires a separate authorization under Section 214 of the Communication Act of 1934, as amended.
- 90013 --- The licensee shall not operate in the band 14.0-14.2 GHz within 125 km of the NASA TDRSS facilities on Guam (located at latitude 13°36'55" N, longitude 144°51'22" E) or White Sands, New Mexico (located at latitude 32°20'59" N, longitude 106°36'31" W and latitude 32°32'40" N, longitude 106°36'48" W), or any future TDRSS facility NTIA notifies to the FCC, unless and until the licensee enters into an agreement with NASA that NTIA has approved. The licensee must conform its operations to the terms of any coordination agreement with the NASA and must file a copy of the agreement with the Commission within 30 days of execution.
- 90014 --- The licensee shall not operate in the band 14.47-14.50 GHz within (a) 45 km of the radio observatory on St. Croix, Virgin Islands (located at latitude 17°46' N, longitude 64°35' W); (b) 125 km of the radio observatory on Mauna Kea, Hawaii (located at latitude 19°48' N, longitude 155°28' W); and (c) 90 km of the Arecibo Observatory on Puerto Rico (located at latitude 18°20'46" W, longitude 66°45'11" N) unless and until the licensee enters into an agreement with the National Science Foundation that has been approved by NTIA. The licensee must conform its operations to the terms of any coordination agreement with the National Science Foundation and must file a copy of the agreement with the Commission within 30 days of execution.



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**B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:**

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

**Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.**



Satcom Direct Government, Inc.  
2550 Wasser Terrace, Suite 6000 Herndon, Virginia 20171

February 29, 2016

**By Electronic Filing**

Ms. Marlene Dortch  
Secretary  
Federal Communications Commission  
445 Twelfth Street, SW  
Washington, D.C. 20554

**Re: IBFS File Nos. SES-T/C-20150804-00503, SES-T/C-20150804-00504, and  
ITC-T/C-20150804-00192**

**Notification of Consummation and Name Change  
Satcom Direct Government, Inc. (f/k/a Airbus DS SatCom Government, Inc.)**

Dear Ms. Dortch:

By this letter, Satcom Direct Government, Inc. (f/k/a Airbus DS SatCom Government, Inc.) ("Licensee"), Airbus DS Systems Holdings, Inc. ("Transferor") and Satcom Direct Communications, Inc. ("Transferee") notify the Federal Communications Commission ("FCC") of the February 10, 2016, consummation of the above-referenced transfer of control of the Licensee from the Transferor to the Transferee. The parties received FCC consent to the transaction on October 28, 2015.

On February 19, 2016, the Licensee formally changed its name from Airbus DS SatCom Government, Inc. to Satcom Direct Government, Inc. The Licensee requests that the International Bureau update its records accordingly.

If you have any questions, or if any additional information would be helpful, please contact the undersigned.

Respectfully submitted,

/s/ Mark Whitson

Mark Whitson  
General Counsel  
Satcom Direct Communications, Inc.  
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