

EXHIBIT 1 – MARK UP OF E890649 LICENSE SHOWING DELETIONS TO BE MADE FROM LICENSE

In Section A) Site Location(s) – Remove - Site ID 2) “SANTA PAULA”

In Section B) Particulars of Operations – Remove – Lines 1), 2), 3), 4), 5), 6), 7) & 8)

In Section C) Frequency Coordination – Remove – Lines 16), 17) & 18)

In Section D) Point of Communications – Remove – Lines 7) & 8)

In Section E) Antenna Facilities – Remove - Site ID “SANTA PAULA”/Antenna ID “14.2M.TIW”



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

*Current Authorization : FCC WEB Reproduction
Unofficial Copy*

"SANTA PAULA"

Name: COMSAT, INC.

Call Sign: E890649
File Number: SES-MOD-20151009-00731

DELETE SITE ID 2

Authorization Type: Modification of License
Common Carrier Grant Date: 04/25/2016 Expiration Date: 07/14/2024

Nature of Service: Fixed Satellite Service

Class of Station: Fixed Earth Stations

A) Site Location(s)

| # Site ID | Address | Latitude | Longitude | Elevation (Meters) | NAD | Special Provisions (Refer to Section H) |
|--|--|----------------|-----------------|--------------------|-----|---|
| 1) KUBAND ESV REMOTES | 1.2 M. SeaTel5009 (500 UNITS) | | | | NA | |
| Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 | | | | | | |
| 2) SANTA PAULA | 7676 PINE GROVE ROAD (14.2M.TIW) SANTA PAULA, VENTURA, CA | 34° 24' 5.0" N | 119° 4' 29.4" W | 230.1 | 83 | <i>DELETE</i> |
| <i>Will be added back to license as SAPAISKU per schedule B</i> | | | | | | |
| Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 | | | | | | |
| 3) KUBAND REMOTE ESV | 1.0 M. SeaTel4003A (500 UNITS) | | | | NA | |
| 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. | | | | | | |
| 4) KUBAND ESV REMOTE | 1.5 M. SeaTel6006 (500 UNITS) | | | | NA | |
| Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 | | | | | | |
| 5) KUBAND REMOTE ESV | 1.0 M. SeaTel4006 (250 UNITS) | | | | 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. | | | | | | |
| 6) KUBAND ESV REMOTES | 1.0 M. STL4009/10 (500 UNITS) | | | | NA | |
| 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. | | | | | | |
| 7) KUBAND ESV REMOTES | 1.2 M. SeaTel5010 (500 UNITS) | | | | NA | |
| Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209 | | | | | | |

NO CHANGES ON PAGE 2



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 Grant Date: 04/25/2016 Expiration Date: 07/14/2024

Delete lines 1 through 8. Will be added back as set forth in Schedule B for SAPAISKU

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 | Polarization | Emission | Tx/Rx Mode | Max EIRP /Carrier | Max EIRP Density | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services |
|---------------|------------------------------------|----------------|--------------------|--------------|-------------------|------------------|----------------------|---|--|
| 1) | 11000.0000 - 14300.0000 | H,V | 64M8G7W | T | 84.60 | 42.50 | 14.2M.T1W | | DIGITAL VIDEO, AUDIO AND DATA |
| 2) | 14000.0000 - 14500.0000 | H,V | 69K0G7W | T | 57.60 | 45.20 | 14.2M.T1W | | DIGITAL VIDEO, AUDIO AND DATA |
| 3) | 11700.0000 - 12200.0000 | H,V | 69K0G7W | R | | | 14.2M.T1W | | DIGITAL VIDEO, AUDIO AND DATA |
| 4) | 11700.0000 - 12200.0000 | H,V | 6M21G7W | R | | | 14.2M.T1W | | DIGITAL VIDEO, AUDIO AND DATA |
| 5) | 11450.0000 - 11700.0000 | H,V | 69K0G7W | R | | | 14.2M.T1W | | DIGITAL VIDEO, AUDIO AND DATA |
| 6) | 11450.0000 - 11700.0000 | H,V | 6M21G7W | R | | | 14.2M.T1W | | DIGITAL VIDEO, AUDIO AND DATA |
| 7) | 10950.0000 - 11200.0000 | H,V | 69K0G7W | R | | | 14.2M.T1W | | DIGITAL VIDEO, AUDIO AND DATA |
| 8) | 10950.0000 - 11200.0000 | H,V | 6M21G7W | R | | | 14.2M.T1W | | DIGITAL VIDEO, AUDIO AND DATA |
| 9) | 14000.0000 - 14500.0000 | H,V | 97K0G7W | T | 39.30 | 25.50 | INTL V110 | | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 10) | 14000.0000 - 14500.0000 | H,V | 970KG7W | T | 49.30 | 25.50 | INTL V110 | | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 11) | 14000.0000 - 14500.0000 | H,V | 89K6G1W | T | 39.00 | 25.50 | INTL V110 | | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 12) | 14000.0000 - 14500.0000 | H,V | 776KG7W | T | 48.40 | 25.50 | INTL V110 | | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 13) | 14000.0000 - 14500.0000 | H,V | 717KG1W | T | 48.00 | 25.50 | INTL V110 | | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 14) | 14000.0000 - 14500.0000 | H,V | 679KG7W | T | 47.80 | 25.50 | INTL V110 | | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 15) | 14000.0000 - 14500.0000 | H,V | 64K0G7W | T | 37.50 | 25.50 | INTL V110 | | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |
| 16) | 14000.0000 - 14500.0000 | H,V | 582KG7W | T | 47.10 | 25.50 | INTL V110 | | DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION |

DELETE

DELETE

No changes on pages 4 through 24



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Name: COMSAT, INC.

Call Sign: E890649

File Number: SES-MOD-20151009-00731

*DELETE LINES 16, 17 & 18
Will be added back as set forth in Schedule B
for SAPA 15 KY*

Authorization Type: Common Carrier
Modification of License Grant Date: 04/25/2016 Expiration Date: 07/14/2024

| | Common Carrier | Grant Date: | Expiration Date: | | |
|-----|------------------------------------|-------------------------|----------------------|-------------------------|---------------------------|
| 2) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel6009 |
| 3) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel6009 |
| 4) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTL V110 |
| 5) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTL V110 |
| 6) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTL V110 |
| 7) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | 28.5 SeaTel5009 |
| 8) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel5009 |
| 9) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel5009 |
| 10) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaT4996T |
| 11) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaT4996T |
| 12) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaT4996T |
| 13) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel5010 |
| 14) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel5010 |
| 15) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel5010 |
| 16) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 5.2 - 5.1 | 99.8 - 260.2 | 28.2 14.2M.TTW |
| 17) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 5.2 - 5.4 | 99.8 - 260.2 | 0.0 14.2M.TTW |
| 18) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 5.2 - 5.4 | 99.8 - 260.2 | 0.0 14.2M.TTW |
| 19) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaT4003A |
| 20) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaT4003A |
| 21) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaT4003A |
| 22) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel4006 |
| 23) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel4006 |
| 24) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 254.0 | SeaTel4006 |
| 25) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel4006 |
| 26) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel4006 |
| 27) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel4006 |
| 28) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel6006 |
| 29) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel6006 |
| 30) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel6006 |
| 31) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTL V80G |
| 32) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTL V80G |
| 33) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTL V80G |
| 34) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | STL30/3011 |

DELETE



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Name: COMSAT, INC. Call Sign: E890649
DELETE LINES 7+8 OF D) File Number: SES-MOD-20151009-00731
will be added back as set forth in schedule B
 Authorization Type: Modification of License *for SAPA 15Ku*
 Common Carrier Grant Date: 04/25/2016 Expiration Date: 07/14/2024

| Line | Frequency Range | Bandwidth | Orbit | Altitude | Station ID |
|------|-------------------------|--------------|-------------|--------------|------------|
| 35) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | STL303011 |
| 36) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | STL303011 |
| 37) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | T&TSAIL900 |
| 38) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | T&TSAIL900 |
| 39) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | T&TSAIL900 |
| 40) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel9797 |
| 41) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel9797 |
| 42) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | SeaTel9797 |
| 43) | 14000.0000 - 14500.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTLV60G |
| 44) | 11450.0000 - 12200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTLV60G |
| 45) | 10950.0000 - 11200.0000 | 46.0W-192.0W | 10.0 - 10.0 | 90.0 - 264.0 | INTLV60G |

D) Point of Communications

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

- 1) KUBAND ESV REMOTES to Permitted Space Station List
- 2) KUBAND ESV REMOTES to Permitted Space Station List
- 3) KUBAND ESV REMOTES to Permitted Space Station List
- 4) KUBAND ESV REMOTES to Permitted Space Station List
- 5) KUBAND ESV REMOTES to Permitted Space Station List
- 6) KUBAND ESV REMOTES to Permitted Space Station List
- 7) ~~SANTA PAULA to Permitted Space Station List~~
- 8) ~~SANTA PAULA to AMC 23 satellite @ 172 degrees E.L. (U.S.-licensed satellite)~~
- 9) KUBAND REMOTE ESV to Permitted Space Station List
- 10) KUBAND REMOTE ESV to AMC 23 satellite @ 172 degrees E.L. (U.S.-licensed satellite)
- 11) KUBAND REMOTE ESV to Permitted Space Station List
- 12) KUBAND ESV REMOTE to Permitted Space Station List
- 13) KUBAND ESV REMOTE to AMC 23 satellite @ 172 degrees E.L. (U.S.-licensed satellite)
- 14) ESV REMT12 to Permitted Space Station List
- 15) ESV REMT13 to Permitted Space Station List

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Call Sign: E890649

File Number: SES-MOD-20151009-00731

DELETE SITE ID "SANTA PAULA"
ANTENNA ID "14.2M.TIW"

Authorization Type: Modification of License
Common Carrier Grant Date: 04/25/2016 Expiration Date: 07/14/2024

16) ESV REMT14 to Permitted Space Station List

17) ESV REMOTES10 to Permitted Space Station List

18) ESV REMT11 to Permitted Space Station List

E) Antenna Facilities

| Site ID | Antenna ID | Units | Diameter (Meters) | Manufacturer | Model Number | Site Elevation | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |
|---------|------------|-------|-------------------|--------------|--------------|----------------|-----------------------------|---|
|---------|------------|-------|-------------------|--------------|--------------|----------------|-----------------------------|---|

~~SANTA PAULA 14.2M.TIW 1 14.2 TIW 14.2 M 230 1 15.7 AGL / 245.8 AMSL~~

~~Max Gains(s): 63.1 dBi @ 12.1300 GHz 64.6 dBi @ 14.1300 GHz
Maximum total input power at antenna flange (Watts) = 100.0
Maximum aggregate output EIRP for all carriers (dBW) 84.6~~

DELETE
Will be added back in as
SAPAISKU as per
Schedule B entries

KUBAND ESV REMOTES INTL V110 500 1.05 INTELLIAN V110
Max Gains(s): 41.7 dBi @ 14.2500 GHz 39.6 dBi @ 12.2000 GHz
Maximum total input power at antenna flange (Watts) = 6.97
Maximum aggregate output EIRP for all carriers (dBW) 49.83

ESV REMT12 INTL V80G 500 0.83 INTELLIAN V80G
Max Gains(s): 37.1 dBi @ 12.2000 GHz 39.5 dBi @ 14.2500 GHz
Maximum total input power at antenna flange (Watts) = 11.59
Maximum aggregate output EIRP for all carriers (dBW) 50.24

ESV REMT11 INTLV60G 500 0.6 INTELLIAN V60G
Max Gains(s): 35.3 dBi @ 12.2000 GHz 38.1 dBi @ 14.2500 GHz
Maximum total input power at antenna flange (Watts) = 11.59
Maximum aggregate output EIRP for all carriers (dBW) 48.74

ESV REMT13 STL30/3011 500 0.75 SEA TEL usat-30/3011
Max Gains(s): 37.6 dBi @ 11.8500 GHz 39.0 dBi @ 14.2500 GHz
Maximum total input power at antenna flange (Watts) = 6.7
Maximum aggregate output EIRP for all carriers (dBW) 47.3

KUBAND ESV REMOTES STL4009/10 500 1.0 SEA TEL 4009/4010
Max Gains(s): 40.6 dBi @ 14.2500 GHz 39.6 dBi @ 12.2000 GHz
Maximum total input power at antenna flange (Watts) = 6.7
Maximum aggregate output EIRP for all carriers (dBW) 48.9

KUBAND REMOTE SeaT4003A 500 1.0 SEATEL 4003A
Max Gains(s): 39.4 dBi @ 12.2000 GHz 40.5 dBi @ 14.2500 GHz
Maximum total input power at antenna flange (Watts) = 5.7
Maximum aggregate output EIRP for all carriers (dBW) 48.1

NO changes to
Remainder of license