

## EXHIBIT 2 – MARK UP SHOWING CHANGES

### TO BE MADE TO KB34 LICENSE

In Section B) Particulars of Operations – Add Emission Designators as per Schedule B

In Section C) Frequency Coordination – Delete entries 8, 9, 20 and 21 and add back to license as per Schedule B and add other entries (currently missing from license) as per Schedule B

In Section D) Point of Communication – Add missing Point of Communication “Inmarsat 4F3” as per Schedule B

In Section E) Antenna Facilities – Add missing “input power” and “aggregate output EIRP” to Antenna ID “10.4M” (2000.0 and 86.5 respectively) as per Schedule B. Delete all entries for the two Antenna IDs marked for deletion on page 8 and add specifications for each back to license as per Schedule B for Antenna IDs “SAPA 13” and “SAPA 13L”

SEE PAGES 6, 7, & 8 FOR DELETIONS & OTHER CHANGES



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

*Current Authorization : FCC WEB Reproduction*  
 Unofficial Copy

& OTHER  
 CHANGES

Name: COMSAT, INC.

Call Sign: KB34  
 File Number: SES-MOD-20151009-00695

Authorization Type: Modification of License  
 Common Carrier Grant Date: 04/25/2016 Expiration Date: 06/15/2025

Nature of Service: Fixed Satellite Service  
 Mobile Satellite Service

Class of Station: Fixed Earth Stations

**A) Site Location(s)**

# Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions (Refer to Section H)
1) 1	7676 PINE GROVE ROAD SANTA PAULA, VENTURA, CA, 93060	34° 24' 5.0" N	119° 4' 29.4" W	228.6	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 Tuesday, June 15, 2010 (3 AM Eastern Standard Time) and ending Sunday, June 15, 2025 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Tuesday, 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	Polarization	Emission	Tx/Rx Mode	Max EIRP /Carrier	Max EIRP Density	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1) 6420.0000 - 6424.0000	R	24K0F3E	T	67.00	59.00	10.4M		
2) 6420.0000 - 6424.0000	R	2K50G1D	T	68.00	68.00	10.4M		
3) 6420.0000 - 6424.0000	R	24K0G1D	T	65.00	57.00	10.4M		
4) 6174.6000 - 6175.4000	H	800KFXD	T	85.00	85.00	10.4M		
5) 5927.0000 - 5927.0000	H	800KFXD	T	85.00	85.00	10.4M		
6) 5925.0000 - 6425.0000	H,V	34M0FXN	T	85.00	62.00	10.4M		
7) 5925.0000 - 6425.0000	H,V,L,R	36M0F8F	T	80.00	53.00	10.4M		ANALOG VIDEO
8) 5925.0000 - 6425.0000	H,V,L,R	18M0F8F-	T	80.00	53.00	10.4M		ANALOG VIDEO
9) 5925.0000 - 6425.0000	H,V,L,R	36M0G7F	T	85.30	45.80	10.4M		DIGITAL VIDEO
10) 5925.0000 - 6425.0000	H,V,L,R	4M00G7F-	T	80.80	50.80	10.4M		DIGITAL VIDEO
11) 5925.0000 - 6425.0000	H,V,L,R	72M0G7W	T	85.30	42.70	10.4M		DIGITAL VOICE, AND DATA
12) 5925.0000 - 6425.0000	H,V,L,R	21K9G7W-	T	58.20	50.80	10.4M		DIGITAL VOICE, AND DATA
13) 4195.0000 - 4199.0000	L	24K0F3E	R			10.4M		



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142) 6425.0000 - 6454.0000	L,R	20K0G1E	T	56.80	49.80	SAPA 13	DIGITAL DATA
143) 6425.0000 - 6454.0000	L,R	2K50F1D	T	58.80	58.80	SAPA 13	DIGITAL DATA
144) 6425.0000 - 6454.0000	L,R	2K50G1D	T	65.70	65.70	SAPA 13	DIGITAL DATA
145) 6425.0000 - 6454.0000	L,R	45K0G7D	T	66.00	55.50	SAPA 13	DIGITAL DATA
146) 6425.0000 - 6454.0000	L,R	5K00G1D	T	61.80	60.80	SAPA 13	DIGITAL DATA
147) 6425.0000 - 6454.0000	L,R	5K00G1E	T	51.90	50.90	SAPA 13	DIGITAL DATA
148) 6425.0000 - 6454.0000	L,R	5K00G1W	T	51.90	50.90	SAPA 13	DIGITAL DATA
149) 6425.0000 - 6454.0000	L,R	60K0D1W	T	65.90	54.10	SAPA 13	DIGITAL DATA
150) 6425.0000 - 6454.0000	L,R	7K50G1D	T	59.10	56.40	SAPA 13	DIGITAL DATA
151) 6425.0000 - 6454.0000	L,R	7K50G1E	T	62.20	59.50	SAPA 13	DIGITAL DATA
152) 6425.0000 - 6454.0000	L,R	7K50G1W	T	58.40	55.70	SAPA 13	DIGITAL DATA
153) 3600.0000 - 3629.0000	L,R	100KG1X	R			SAPA 13	O-QPSK, 64 KBPS DATA
154) 3600.0000 - 3629.0000	L,R	20K0G1E	R			SAPA 13	O-QPSK, VOICE TELEPHONY
155) 3600.0000 - 3629.0000	L,R	20K0G1X	R			SAPA 13	BPSK, 9.6 KBPS FAX AND DATA
156) 3600.0000 - 3629.0000	L,R	100KG1X	R			SAPA 13	DIGITAL DATA
157) 3600.0000 - 3629.0000	L,R	10K0G1W	R			SAPA 13	DIGITAL DATA
158) 3600.0000 - 3629.0000	L,R	17K5G1D	R			SAPA 13	DIGITAL DATA
159) 3600.0000 - 3629.0000	L,R	20K0G1E	R			SAPA 13	DIGITAL DATA
160) 3600.0000 - 3629.0000	L,R	20K0G1X	R			SAPA 13	DIGITAL DATA
161) 3600.0000 - 3629.0000	L,R	2K50F1D	R			SAPA 13	DIGITAL DATA
162) 3600.0000 - 3629.0000	L,R	2K50G1D	R			SAPA 13	DIGITAL DATA
163) 3600.0000 - 3629.0000	L,R	45K0G7D	R			SAPA 13	DIGITAL DATA
164) 3600.0000 - 3629.0000	L,R	5K00G1D	R			SAPA 13	DIGITAL DATA
165) 3600.0000 - 3629.0000	L,R	5K00G1E	R			SAPA 13	DIGITAL DATA
166) 3600.0000 - 3629.0000	L,R	5K00G1W	R			SAPA 13	DIGITAL DATA
167) 3600.0000 - 3629.0000	L,R	60K0D1W	R			SAPA 13	DIGITAL DATA
168) 3600.0000 - 3629.0000	L,R	7K50G1D	R			SAPA 13	DIGITAL DATA
169) 3600.0000 - 3629.0000	L,R	7K50G1E	R		0.00	SAPA 13	DIGITAL DATA
170) 3600.0000 - 3629.0000	L,R	7K50G1W	R			SAPA 13	DIGITAL DATA

**MISSING EMISSION DESIGNATORS TO BE ADDED AS PER SCHEDULE B**

**C) Frequency Coordination**

#	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)	5925.0000 - 6425.0000	60.0W	144.0W	5.0	5.0	101.9	258.1	32.0	12.8M



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2)	5925.0000 - 6425.0000	46.0W-192.0W	5.2 - 5.4	99.8 - 260.2	42.6 12.8M
3)	3700.0000 - 4200.0000	46.0W-192.0W	5.2 - 5.4	99.8 - 260.2	12.8M
4)	5925.0000 - 6425.0000	60.0W-144.0W	5.0 - 5.0	101.9 - 258.1	32.0 12.8M
5)	6417.5000 - 6454.0000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	43.4 12.8M
6)	3600.0000 - 3629.0000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	0.0 12.8M
7)	4192.5000 - 4200.0000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	12.8M
<del>8)</del>	<del>1626.5000 - 1660.5000</del>	<del>48.0W-190.0W</del>	<del>6.9 - 7.0</del>	<del>101.0 - 258.9</del>	<del>43.4 12.8M</del>
<del>9)</del>	<del>1525.5000 - 1559.0000</del>	<del>48.0W-190.0W</del>	<del>6.9 - 7.0</del>	<del>101.0 - 258.9</del>	<del>12.8M</del>
10)	1574.4000 - 1576.6000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	12.8M
11)	6454.4000 - 6456.6000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	12.8M
12)	6170.0000 - 6180.0000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	12.8M
13)	6416.0000 - 6418.0000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	12.8M
14)	3945.0000 - 3955.0000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	12.8M
15)	4188.0000 - 4189.0000	48.0W-190.0W	6.9 - 7.0	101.0 - 258.9	12.8M
16)	5925.0000 - 6425.0000	46.0W-192.0W	5.2 - 5.4	99.8 - 260.2	42.4 10.4M
17)	3700.0000 - 4200.0000	46.0W-192.0W	5.2 - 5.4	99.8 - 260.2	10.4M
18)	3945.5000 - 3945.5000	60.0W-144.0W	5.0 - 5.0	101.9 - 258.1	10.4M
19)	3954.5000 - 3954.5000	60.0W-144.0W	5.0 - 5.0	101.9 - 258.1	10.4M
<del>20)</del>	<del>1638.5000 - 1642.5000</del>	<del>48.0W-190.0W</del>	<del>6.9 - 7.0</del>	<del>101.0 - 258.9</del>	<del>12.8M</del>
<del>21)</del>	<del>1541.5000 - 1541.4000</del>	<del>48.0W-190.0W</del>	<del>6.9 - 7.0</del>	<del>101.0 - 258.9</del>	<del>12.8M</del>
22)	3600.0000 - 3629.0000	100.0W-150.0W	45.1 - 38.2	148.5 - 226.7	SAPA 13
23)	6425.0000 - 6454.0000	100.0W-150.0W	45.1 - 38.2	148.5 - 226.7	42.4 SAPA 13
24)	3600.0000 - 3629.0000	100.0W-150.0W	45.1 - 38.2	148.5 - 226.7	6.6 SAPA 13
25)	6425.0000 - 6454.0000	100.0W-150.0W	45.1 - 38.2	148.5 - 226.7	SAPA 13

*DELETE THEN ADD BACK IN AS per schedule B*

*Delete then add back in as per schedule B*

**D) Point of Communications**

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

- 1) 1 to COMSTAR D-4 @ 76 W.L. (U.S.-licensed domestic satellite) (U.S.-licensed)
- 2) 1 to INMARSAT satellite(s) in POR of the INMARSAT system (Non-U.S.-licensed)
- 3) 1 to INMARSAT satellite(s) in AOR-E of the INMARSAT system (Non-U.S.-licensed)
- 4) 1 to Permitted Space Station List
- 5) 1 to INMARSAT 3F4 satellite(s) @ 142 degrees W.L. (United Kingdom-licensed)

*MISSING COORDINATION ENTRIES TO BE ADDED AS PER SCHEDULE B*



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6) 1 to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band

7) 1 to INMARSAT 2F1 satellite @142 degrees W.L. (United Kingdom-licensed)

*ADD I4F3 as per Schedule B*

**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)
1	10.4M	1	10.4	NEC	34 FT.	228.6	11.0 AGL/ 239.6 AMSL	

Max Gains(s): 50.4 dBi @ 4.0000 GHz 53.5 dBi @ 6.0000 GHz

Maximum total input power at antenna flange (Watts) = 0.0

Maximum aggregate output EIRP for all carriers (dBW) 0.0

*CHANGE TO 2000.0 as per Schedule B*  
*CHANGE TO 86.5 as per Schedule B*

<del>1</del>	<del>12.8M</del>	<del>1</del>	<del>12.8</del>	<del>PHILCO FORD</del>	<del>42 FT</del>	<del>228.6</del>	<del>15.2 AGL/ 243.8 AMSL</del>	
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~~Max Gains(s):~~

~~Maximum total input power at antenna flange (Watts) 1500.0~~

~~Maximum aggregate output EIRP for all carriers (dBW) 87.8~~

*DELETE*

1	12.8M	1	12.8	PHILCO-FORD	42 FT.	228.6	15.2 AGL/ 243.8 AMSL	
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Max Gains(s): 52.8 dBi @ 4.0000 GHz 56.0 dBi @ 6.0000 GHz

Maximum total input power at antenna flange (Watts) = 2000.0

Maximum aggregate output EIRP for all carriers (dBW) 89.0

1	12.8M	0	12.8	PHILCO-FORD		228.6		
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Max Gains(s): 40.0 dBi @ 1.6380 GHz 39.0 dBi @ 1.5390 GHz 52.8 dBi @ 3.9500 GHz 56.0 dBi @ 6.1750 GHz

Maximum total input power at antenna flange (Watts) = 175.0

Maximum aggregate output EIRP for all carriers (dBW) 62.43

<del>1</del>	<del>SAPA 13</del>	<del>1</del>	<del>10.4</del>	<del>NEC</del>	<del>34 FT</del>	<del>228.6</del>	<del>11.0 AGL/ 239.6 AMSL</del>	
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~~Max Gains(s): 50.4 dBi @ 3.9500 GHz 53.5 dBi @ 6.0000 GHz~~

~~Maximum total input power at antenna flange (Watts) 400.0~~

~~Maximum aggregate output EIRP for all carriers (dBW) 79.5~~

*DELETE AND ADD BACK IN AS PER SCHEDULE B*

**F) Remote Control**

1 Call Sign: KB34

**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: