UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Comsat, Inc.
Call Sign: E890649
Authorization Type: Modification of License
File Number: SES-MOD-20151009-00731
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)	ESV REMOTES10	2.4 M. SEATEL9797 (500 UNITS),				83	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
2)	ESV REMT11	0.6 M. INTELLIAN V60G (500 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.					
3)	ESV REMT12	0.83 M. INTELLIAN V80G (500 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.					
4)	ESV REMT13	0.75 M. STL30/3011 (500 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.					
5)	ESV REMT14	1.0 M. T&TSAIL900 (500 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 REMOTE	1.5 M. SeaTel6006 (500 UNITS),				NA	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					

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7)	KUBAND ESV REMOTES	1.2 M. SeaTel5009 (500 UNITS), Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA	
8)	KUBAND ESV REMOTES	1.0 M. STL4009/10 (500 UNITS), 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.				NA	
9)	KUBAND ESV REMOTES	1.2 M. SeaTel5010 (500 UNITS), Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA	
10)	KUBAND ESV REMOTES	1.5 M. SeaTel6009 (500 UNITS), Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA	
11)	KUBAND ESV REMOTES	1.05 M. INTL V110 (500 UNITS), 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.				NA	
12)	KUBAND ESV REMOTES	1.2 M. SEATEL4996T (50 UNITS), Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA	

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13)	KUBAND REMOTE ESV	1.0 M. SeaTel4003A (500 UNITS), 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.				NA	
14)	KUBAND REMOTE ESV	1.0 M. SeaTel4006 (250 UNITS), 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.				83	
15)	SANTA PAULA	7676 PINE GROVE ROAD (14.2M.TIW) SANTA PAULA, VENTURA, CA Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209	34°24'5.0"N	119°4'29.4"W	230.1	83	

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 July 14, 2009 (3 AM Eastern Standard Time) and ending July 14, 2024 (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	64M8G7W	Tx	84.60	42.50	14.2M.TIW		DIGITAL VIDEO, AUDIO AND DATA
2)	14000.0000-14500.0000	H,V	69K0G7W	Tx	57.60	45.20	14.2M.TIW		DIGITAL VIDEO, AUDIO AND DATA

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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
3)	11700.0000-12200.0000	H,V	69K0G7W	Rx			14.2M.TIW		DIGITAL VIDEO, AUDIO AND DATA
4)	11700.0000-12200.0000	H,V	6M21G7W	Rx			14.2M.TIW		DIGITAL VIDEO, AUDIO AND DATA
5)	11450.0000-11700.0000	H,V	69K0G7W	Rx			14.2M.TIW		DIGITAL VIDEO, AUDIO AND DATA
6)	11450.0000-11700.0000	H,V	6M21G7W	Rx			14.2M.TIW		DIGITAL VIDEO, AUDIO AND DATA
7)	10950.0000-11200.0000	H,V	69K0G7W	Rx			14.2M.TIW		DIGITAL VIDEO, AUDIO AND DATA
8)	10950.0000-11200.0000	H,V	6M21G7W	Rx			14.2M.TIW		DIGITAL VIDEO, AUDIO AND DATA
9)	14000.0000-14500.0000	H,V	194KG7W	Tx	42.40	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10)	14000.0000-14500.0000	H,V	1M16G7W	Tx	49.80	25.20	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11)	14000.0000-14500.0000	H,V	1M36G7W	Tx	49.80	24.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
12)	14000.0000-14500.0000	H,V	1M55G7W	Tx	49.80	23.90	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
13)	14000.0000-14500.0000	H,V	291KG7W	Tx	44.10	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
14)	14000.0000-14500.0000	H,V	388KG7W	Tx	45.40	22.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
15)	14000.0000-14500.0000	H,V	44K8G1W	Tx	36.00	22.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
16)	14000.0000-14500.0000	H,V	485KG7W	Tx	46.30	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
17)	14000.0000-14500.0000	H,V	582KG7W	Tx	47.10	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
18)	14000.0000-14500.0000	H,V	64K0G7W	Tx	37.50	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
19)	14000.0000-14500.0000	H,V	679KG7W	Tx	47.80	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
20)	14000.0000-14500.0000	H,V	717KG1W	Tx	48.00	25.50	INTL V110		DIGITAL TRAFFIC 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
21)	14000.0000-14500.0000	H,V	776KG7W	Tx	48.40	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
22)	14000.0000-14500.0000	H,V	89K6G1W	Tx	39.00	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
23)	14000.0000-14500.0000	H,V	970KG7W	Tx	49.30	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
24)	14000.0000-14500.0000	H,V	97K0G7W	Tx	39.30	25.50	INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
25)	11450.0000-12200.0000	H,V	151KG7W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
26)	11450.0000-12200.0000	H,V	2M60G7W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
27)	11450.0000-12200.0000	H,V	44K8G1W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
28)	11450.0000-12200.0000	H,V	54M0G7W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
29)	11450.0000-12200.0000	H,V	717KG1W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
30)	11450.0000-12200.0000	H,V	89K6G1W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
31)	10950.0000-11200.0000	H,V	151KG7W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
32)	10950.0000-11200.0000	H,V	2M60G7W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
33)	10950.0000-11200.0000	H,V	44K8G1W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
34)	10950.0000-11200.0000	H,V	54M0G7W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
35)	10950.0000-11200.0000	H,V	717KG1W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
36)	10950.0000-11200.0000	H,V	89K6G1W	Rx			INTL V110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
37)	14000.0000-14500.0000	H,V	151KG7W	Tx	35.17	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
38)	14000.0000-14500.0000	H,V	194KG7W	Tx	36.27	19.37	INTL V80G		DIGITAL TRAFFIC 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
39)	14000.0000-14500.0000	H,V	291KG7W	Tx	38.00	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
40)	14000.0000-14500.0000	H,V	388KG7W	Tx	39.27	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
41)	14000.0000-14500.0000	H,V	445KG7W	Tx	39.87	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
42)	14000.0000-14500.0000	H,V	44K8G1W	Tx	29.87	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
43)	14000.0000-14500.0000	H,V	452KG7W	Tx	39.87	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
44)	14000.0000-14500.0000	H,V	717KG1W	Tx	41.87	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
45)	14000.0000-14500.0000	H,V	81K0G7W	Tx	32.47	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
46)	14000.0000-14500.0000	H,V	89K6G1W	Tx	32.87	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
47)	14000.0000-14500.0000	H,V	97K0G7W	Tx	33.17	19.37	INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
48)	11450.0000-12200.0000	H,V	44K8G1W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
49)	11450.0000-12200.0000	H,V	54M0G7W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
50)	11450.0000-12200.0000	H,V	717KG1W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
51)	11450.0000-12200.0000	H,V	81K0G7W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
52)	11450.0000-12200.0000	H,V	89K6G1W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
53)	10950.0000-11200.0000	H,V	44K8G1W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
54)	10950.0000-11200.0000	H,V	54M0G7W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
55)	10950.0000-11200.0000	H,V	717KG1W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
56)	10950.0000-11200.0000	H,V	81K0G7W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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57)	10950.0000-11200.0000	H,V	89K6G1W	Rx			INTL V80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
58)	14000.0000-14500.0000	H,V	151KG7W	Tx	31.60	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
59)	14000.0000-14500.0000	H,V	194KG7W	Tx	32.70	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
60)	14000.0000-14500.0000	H,V	291KG7W	Tx	34.40	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
61)	14000.0000-14500.0000	H,V	388KG7W	Tx	35.70	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
62)	14000.0000-14500.0000	H,V	445KG7W	Tx	36.30	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
63)	14000.0000-14500.0000	H,V	44K8G1W	Tx	26.30	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
64)	14000.0000-14500.0000	H,V	452KG7W	Tx	36.30	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
65)	14000.0000-14500.0000	H,V	717KG1W	Tx	38.30	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
66)	14000.0000-14500.0000	H,V	81K0G7W	Tx	28.90	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
67)	14000.0000-14500.0000	H,V	89K6G1W	Tx	29.30	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
68)	14000.0000-14500.0000	H,V	97K0G7W	Tx	29.60	15.80	INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
69)	11450.0000-12200.0000	H,V	44K8G1W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
70)	11450.0000-12200.0000	H,V	54M0G7W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
71)	11450.0000-12200.0000	H,V	717KG1W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
72)	11450.0000-12200.0000	H,V	81K0G7W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
73)	11450.0000-12200.0000	H,V	89K6G1W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
74)	10950.0000-11200.0000	H,V	44K8G1W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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75)	10950.0000-11200.0000	H,V	54M0G7W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
76)	10950.0000-11200.0000	H,V	717KG1W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
77)	10950.0000-11200.0000	H,V	81K0G7W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
78)	10950.0000-11200.0000	H,V	89K6G1W	Rx			INTLV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
79)	14000.0000-14500.0000	H,V	128KG1W	Tx	32.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
80)	14000.0000-14500.0000	H,V	128KG7W	Tx	32.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
81)	14000.0000-14500.0000	H,V	1M02G1W	Tx	41.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
82)	14000.0000-14500.0000	H,V	1M02G7W	Tx	41.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
83)	14000.0000-14500.0000	H,V	1M28G1W	Tx	42.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
84)	14000.0000-14500.0000	H,V	1M28G7W	Tx	42.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
85)	14000.0000-14500.0000	H,V	1M54G1W	Tx	43.20	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
86)	14000.0000-14500.0000	H,V	1M54G7W	Tx	43.20	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
87)	14000.0000-14500.0000	H,V	1M79G1W	Tx	43.90	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
88)	14000.0000-14500.0000	H,V	1M79G7W	Tx	43.90	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
89)	14000.0000-14500.0000	H,V	256KG1W	Tx	35.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
90)	14000.0000-14500.0000	H,V	256KG7W	Tx	35.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
91)	14000.0000-14500.0000	H,V	2M05G1W	Tx	44.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
92)	14000.0000-14500.0000	H,V	2M05G7W	Tx	44.50	17.40	STL30/3011		DIGITAL TRAFFIC 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
93)	14000.0000-14500.0000	H,V	2M56G1W	Tx	45.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
94)	14000.0000-14500.0000	H,V	2M56G7W	Tx	45.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
95)	14000.0000-14500.0000	H,V	3M07G1W	Tx	46.30	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
96)	14000.0000-14500.0000	H,V	3M07G7W	Tx	46.30	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
97)	14000.0000-14500.0000	H,V	3M58G1W	Tx	46.90	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
98)	14000.0000-14500.0000	H,V	3M58G7W	Tx	46.90	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
99)	14000.0000-14500.0000	H,V	4M10G1W	Tx	47.30	17.20	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
100)	14000.0000-14500.0000	H,V	4M10G7W	Tx	47.30	17.20	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
101)	14000.0000-14500.0000	H,V	512KG1W	Tx	38.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
102)	14000.0000-14500.0000	H,V	512KG7W	Tx	38.50	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
103)	14000.0000-14500.0000	H,V	768KG1W	Tx	40.20	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
104)	14000.0000-14500.0000	H,V	768KG7W	Tx	40.20	17.40	STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
105)	11450.0000-12200.0000	H,V	1M00G1W	Rx			STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
106)	11450.0000-12200.0000	H,V	1M00G7W	Rx			STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
107)	11450.0000-12200.0000	H,V	45M0G1W	Rx			STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
108)	11450.0000-12200.0000	H,V	45M0G7W	Rx			STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
109)	10950.0000-11200.0000	H,V	1M00G1W	Rx			STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
110)	10950.0000-11200.0000	H,V	1M00G7W	Rx			STL30/3011		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
111)	10950.0000-11200.0000	H,V	45M0G1W	Rx			STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
112)	10950.0000-11200.0000	H,V	45M0G7W	Rx			STL30/3011		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
113)	14000.0000-14500.0000	H,V	194KG7W	Tx	41.20	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
114)	14000.0000-14500.0000	H,V	1M16G7W	Tx	48.90	24.20	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
115)	14000.0000-14500.0000	H,V	1M36G7W	Tx	48.90	23.60	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
116)	14000.0000-14500.0000	H,V	291KG7W	Tx	42.90	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
117)	14000.0000-14500.0000	H,V	388KG7W	Tx	44.20	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
118)	14000.0000-14500.0000	H,V	485KG7W	Tx	45.20	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
119)	14000.0000-14500.0000	H,V	582KG7W	Tx	45.90	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
120)	14000.0000-14500.0000	H,V	64K0G7W	Tx	36.40	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
121)	14000.0000-14500.0000	H,V	679KG7W	Tx	46.60	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
122)	14000.0000-14500.0000	H,V	776KG7W	Tx	47.10	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
123)	14000.0000-14500.0000	H,V	970KG7W	Tx	48.20	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
124)	14000.0000-14500.0000	H,V	97K0G7W	Tx	38.20	24.30	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
125)	14000.0000-14500.0000	H,V	IM55G7W	Tx	48.90	23.00	STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
126)	14000.0000-14500.0000	H,V	44K8G1W	Tx	34.70	24.30	STL4009/10		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
127)	14000.0000-14500.0000	H,V	717KG1W	Tx	46.80	24.30	STL4009/10		SCPC 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
128)	14000.0000-14500.0000	H,V	89K6G1W	Tx	37.80	24.30	STL4009/10		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
129)	11450.0000-12200.0000	H,V	151KG7W	Rx			STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
130)	11450.0000-12200.0000	H,V	2M60G7W	Rx			STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
131)	11450.0000-12200.0000	H,V	54M0G7W	Rx			STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
132)	11450.0000-12200.0000	H,V	44K8G1W	Rx			STL4009/10		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
133)	11450.0000-12200.0000	H,V	717KG1W	Rx			STL4009/10		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
134)	11450.0000-12200.0000	H,V	89K6G1W	Rx			STL4009/10		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
135)	10950.0000-11200.0000	H,V	151KG7W	Rx			STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
136)	10950.0000-11200.0000	H,V	2M60G7W	Rx			STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
137)	10950.0000-11200.0000	H,V	54M0G7W	Rx			STL4009/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
138)	10950.0000-11200.0000	H,V	44K8G1W	Rx			STL4009/10		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
139)	10950.0000-11200.0000	H,V	717KG1W	Rx			STL4009/10		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
140)	10950.0000-11200.0000	H,V	89K6G1W	Rx			STL4009/10		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
141)	14000.0000-14500.0000	H,V	44K8G1W	Tx	34.60	24.20	SeaT4003A		SCPC DIGITAL USING QPSK AND BPSK MODULATION
142)	14000.0000-14500.0000	H,V	538KG1W	Tx	45.50	24.20	SeaT4003A		SCPC DIGITAL USING QPSK AND BPSK MODULATION
143)	14000.0000-14500.0000	H,V	89K6G1W	Tx	37.70	24.20	SeaT4003A		SCPC DIGITAL 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
144)	14000.0000-14500.0000	H,V	194KG7W	Tx	41.10	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
145)	14000.0000-14500.0000	H,V	1M16G7W	Tx	48.10	23.40	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
146)	14000.0000-14500.0000	H,V	1M36G7W	Tx	48.10	22.80	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
147)	14000.0000-14500.0000	H,V	1M55G7W	Tx	48.10	22.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
148)	14000.0000-14500.0000	H,V	219KG7W	Tx	42.80	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
149)	14000.0000-14500.0000	H,V	388KG7W	Tx	44.10	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
150)	14000.0000-14500.0000	H,V	485KG7W	Tx	45.10	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
151)	14000.0000-14500.0000	H,V	582KG7W	Tx	45.80	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
152)	14000.0000-14500.0000	H,V	64K0G7W	Tx	36.30	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
153)	14000.0000-14500.0000	H,V	679KG7W	Tx	46.50	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
154)	14000.0000-14500.0000	H,V	776KG7W	Tx	47.00	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
155)	14000.0000-14500.0000	H,V	970KG7W	Tx	48.10	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
156)	14000.0000-14500.0000	H,V	97K0G7W	Tx	38.10	24.20	SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
157)	11700.0000-12200.0000	H,V	2M60G7W	Rx			SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
158)	11700.0000-12200.0000	H,V	54M0G7W	Rx			SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
159)	11450.0000-12200.0000	H,V	151KG7W	Rx			SeaT4003A		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
160)	11450.0000-12200.0000	H,V	44K8G1W	Rx			SeaT4003A		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
161)	11450.0000-12200.0000	H,V	717KG1W	Rx					

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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
162)	11450.0000-12200.0000	H,V	89K6G1W	Rx			SeaT4003A		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
163)	11450.0000-11700.0000	H,V	2M60G7W	Rx			SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
164)	11450.0000-11700.0000	H,V	54M0G7W	Rx			SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
165)	10950.0000-11200.0000	H,V	151KG7W	Rx			SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
166)	10950.0000-11200.0000	H,V	2M60G7W	Rx			SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
167)	10950.0000-11200.0000	H,V	54M0G7W	Rx			SeaT4003A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
168)	10950.0000-11200.0000	H,V	44K8G1W	Rx			SeaT4003A		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
169)	10950.0000-11200.0000	H,V	717KG1W	Rx			SeaT4003A		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
170)	10950.0000-11200.0000	H,V	89K6G1W	Rx			SeaT4003A		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
171)	14000.0000-14500.0000	H,V	194KG7W	Tx	41.20	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
172)	14000.0000-14500.0000	H,V	1M16G7W	Tx	48.90	24.20	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
173)	14000.0000-14500.0000	H,V	1M36G7W	Tx	48.90	23.60	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
174)	14000.0000-14500.0000	H,V	1M55G7W	Tx	48.90	23.00	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
175)	14000.0000-14500.0000	H,V	291KG7W	Tx	42.90	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
176)	14000.0000-14500.0000	H,V	388KG7W	Tx	44.20	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
177)	14000.0000-14500.0000	H,V	485KG7W	Tx	45.20	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
178)	14000.0000-14500.0000	H,V	582KG7W	Tx	45.90	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
179)	14000.0000-14500.0000	H,V	64K0G7W	Tx	36.40	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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B) Particulars of Operations

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The General Provision 1900 applies to all transmitting frequency bands.
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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
180)	14000.0000-14500.0000	H,V	679KG7W	Tx	46.60	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
181)	14000.0000-14500.0000	H,V	776KG7W	Tx	47.10	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
182)	14000.0000-14500.0000	H,V	970KG7W	Tx	42.80	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
183)	14000.0000-14500.0000	H,V	97K0G7W	Tx	38.20	24.30	SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
184)	14000.0000-14500.0000	H,V	44K8G1W	Tx	34.70	24.30	SeaTel4006		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
185)	14000.0000-14500.0000	H,V	717KG1W	Tx	46.80	24.30	SeaTel4006		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
186)	14000.0000-14500.0000	H,V	89K6G1W	Tx	37.80	24.30	SeaTel4006		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
187)	11450.0000-12200.0000	H,V	151KG7W	Rx			SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
188)	11450.0000-12200.0000	H,V	2M60G7W	Rx			SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
189)	11450.0000-12200.0000	H,V	54M0G7W	Rx			SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
190)	11450.0000-12200.0000	H,V	44K8G1W	Rx			SeaTel4006		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
191)	11450.0000-12200.0000	H,V	717KG1W	Rx			SeaTel4006		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
192)	11450.0000-12200.0000	H,V	89K6G1W	Rx			SeaTel4006		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
193)	10950.0000-11200.0000	H,V	151KG7W	Rx			SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
194)	10950.0000-11200.0000	H,V	2M60G7W	Rx			SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
195)	10950.0000-11200.0000	H,V	54M0G7W	Rx			SeaTel4006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
196)	10950.0000-11200.0000	H,V	717KG1W	Rx			SeaTel4006		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
197)	10950.0000-11200.0000	H,V	89K6G1W	Rx			SeaTel4006		SCPC DIGITAL TRAFFIC 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
198)	10950.0000-11200.0000	H,V	44K8G1W	Rx			SeaTel4006		SCPC DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
199)	14000.0000-14500.0000	H,V	194KG1W	Tx	45.90	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
200)	14000.0000-14500.0000	H,V	194KG7W	Tx	45.90	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
201)	14000.0000-14500.0000	H,V	222KG1W	Tx	46.40	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
202)	14000.0000-14500.0000	H,V	222KG7W	Tx	46.40	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
203)	14000.0000-14500.0000	H,V	263KG1W	Tx	47.20	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
204)	14000.0000-14500.0000	H,V	263KG7W	Tx	47.20	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
205)	14000.0000-14500.0000	H,V	291KG1W	Tx	47.60	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
206)	14000.0000-14500.0000	H,V	291KG7W	Tx	47.60	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
207)	14000.0000-14500.0000	H,V	296KG1W	Tx	47.70	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
208)	14000.0000-14500.0000	H,V	296KG7W	Tx	47.70	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
209)	14000.0000-14500.0000	H,V	345KG1W	Tx	48.40	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
210)	14000.0000-14500.0000	H,V	345KG7W	Tx	48.40	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
211)	14000.0000-14500.0000	H,V	388KG1W	Tx	48.90	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
212)	14000.0000-14500.0000	H,V	388KG7W	Tx	48.90	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
213)	14000.0000-14500.0000	H,V	417KG1W	Tx	49.20	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
214)	14000.0000-14500.0000	H,V	417KG7W	Tx	49.20	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
215)	14000.0000-14500.0000	H,V	445KG1W	Tx	49.50	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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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
216)	14000.0000-14500.0000	H,V	445KG7W	Tx	49.50	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
217)	14000.0000-14500.0000	H,V	452KG1W	Tx	49.50	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
218)	14000.0000-14500.0000	H,V	452KG7W	Tx	49.50	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
219)	14000.0000-14500.0000	H,V	518KG1W	Tx	50.10	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
220)	14000.0000-14500.0000	H,V	518KG7W	Tx	50.10	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
221)	14000.0000-14500.0000	H,V	64K0G1W	Tx	41.00	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
222)	14000.0000-14500.0000	H,V	64K0G7W	Tx	41.00	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
223)	14000.0000-14500.0000	H,V	776KG1W	Tx	51.20	28.30	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
224)	14000.0000-14500.0000	H,V	776KG7W	Tx	51.20	28.30	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
225)	14000.0000-14500.0000	H,V	97K0G1W	Tx	42.80	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
226)	14000.0000-14500.0000	H,V	97K0G7W	Tx	42.80	29.00	SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
227)	11450.0000-12200.0000	H,V	45M0G1W	Rx			SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
228)	11450.0000-12200.0000	H,V	45M0G7W	Rx			SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
229)	11450.0000-12200.0000	H,V	64K0G1W	Rx			SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
230)	11450.0000-12200.0000	H,V	64K0G7W	Rx			SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
231)	10950.0000-11200.0000	H,V	45M0G1W	Rx			SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
232)	10950.0000-11200.0000	H,V	45M0G7W	Rx			SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
233)	10950.0000-11200.0000	H,V	64K0G1W	Rx			SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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Authorization Type: Modification of License **File Number:** SES-MOD-20151009-00731
Common Carrier **Grant date:** 04/25/2016 **Expiration Date:** 07/14/2024

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
234)	10950.0000-11200.0000	H,V	64K0G7W	Rx			SeaTel5009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
235)	14000.0000-14500.0000	H,V	194KG1W	Tx	45.90	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
236)	14000.0000-14500.0000	H,V	194KG7W	Tx	45.90	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
237)	14000.0000-14500.0000	H,V	222KG1W	Tx	46.40	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
238)	14000.0000-14500.0000	H,V	222KG7W	Tx	46.40	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
239)	14000.0000-14500.0000	H,V	263KG1W	Tx	47.20	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
240)	14000.0000-14500.0000	H,V	263KG7W	Tx	47.20	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
241)	14000.0000-14500.0000	H,V	291KG1W	Tx	47.60	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
242)	14000.0000-14500.0000	H,V	291KG7W	Tx	47.60	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
243)	14000.0000-14500.0000	H,V	296KG1W	Tx	47.00	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
244)	14000.0000-14500.0000	H,V	296KG7W	Tx	47.70	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
245)	14000.0000-14500.0000	H,V	345KG1W	Tx	48.40	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
246)	14000.0000-14500.0000	H,V	345KG7W	Tx	48.40	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
247)	14000.0000-14500.0000	H,V	388KG1W	Tx	48.90	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
248)	14000.0000-14500.0000	H,V	388KG7W	Tx	48.90	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
249)	14000.0000-14500.0000	H,V	417KG1W	Tx	49.20	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
250)	14000.0000-14500.0000	H,V	417KG7W	Tx	49.20	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
251)	14000.0000-14500.0000	H,V	445KG1W	Tx	49.50	29.00	SeaTel5010		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
252)	14000.0000-14500.0000	H,V	445KG7W	Tx	49.50	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
253)	14000.0000-14500.0000	H,V	452KG1W	Tx	49.50	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
254)	14000.0000-14500.0000	H,V	452KG7W	Tx	49.50	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
255)	14000.0000-14500.0000	H,V	518KG1W	Tx	50.10	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
256)	14000.0000-14500.0000	H,V	518KG7W	Tx	50.10	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
257)	14000.0000-14500.0000	H,V	64K0G1W	Tx	41.00	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
258)	14000.0000-14500.0000	H,V	64K0G7W	Tx	41.00	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
259)	14000.0000-14500.0000	H,V	776KG1W	Tx	51.20	28.30	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
260)	14000.0000-14500.0000	H,V	776KG7W	Tx	51.20	28.30	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
261)	14000.0000-14500.0000	H,V	97K0G1W	Tx	42.80	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
262)	14000.0000-14500.0000	H,V	97K0G7W	Tx	42.80	29.00	SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
263)	11450.0000-12200.0000	H,V	45M0G1W	Rx			SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
264)	11450.0000-12200.0000	H,V	45M0G7W	Rx			SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
265)	11450.0000-12200.0000	H,V	64K0G1W	Rx			SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
266)	11450.0000-12200.0000	H,V	64K0G7W	Rx			SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
267)	10950.0000-11200.0000	H,V	45M0G1W	Rx			SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
268)	10950.0000-11200.0000	H,V	45M0G7W	Rx			SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
269)	10950.0000-11200.0000	H,V	64K0G1W	Rx			SeaTel5010		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
270)	10950.0000-11200.0000	H,V	64K0G7W	Rx			SeaTel5010		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
271)	14000.0000-14500.0000	H,V	151KG7W	Tx	46.90	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
272)	14000.0000-14500.0000	H,V	194KG7W	Tx	48.00	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
273)	14000.0000-14500.0000	H,V	1M43G1W	Tx	53.30	27.80	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
274)	14000.0000-14500.0000	H,V	291KG7W	Tx	49.70	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
275)	14000.0000-14500.0000	H,V	2M35G1W	Tx	53.30	25.60	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
276)	14000.0000-14500.0000	H,V	388KG7W	Tx	51.00	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
277)	14000.0000-14500.0000	H,V	445KG7W	Tx	51.60	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
278)	14000.0000-14500.0000	H,V	44K8G1W	Tx	41.60	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
279)	14000.0000-14500.0000	H,V	452KG7W	Tx	51.60	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
280)	14000.0000-14500.0000	H,V	717KG1W	Tx	53.30	30.80	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
281)	14000.0000-14500.0000	H,V	81K0G7W	Tx	44.20	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
282)	14000.0000-14500.0000	H,V	89K6G1W	Tx	44.60	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
283)	14000.0000-14500.0000	H,V	97K0G7W	Tx	44.90	31.10	SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
284)	11450.0000-12200.0000	H,V	54M0G7W	Rx			SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
285)	11450.0000-12200.0000	H,V	717KG1W	Rx			SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
286)	11450.0000-12200.0000	H,V	81K0G7W	Rx			SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
287)	11450.0000-12200.0000	H,V	89K6G1W	Rx			SeaTel6006		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
288)	11450.0000-12200.0000	H,V	1M43G1W	Rx			SeaTel6006	257	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
289)	11450.0000-12200.0000	H,V	2M35G1W	Rx			SeaTel6006	257	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
290)	11450.0000-12200.0000	H,V	44K8G1W	Rx			SeaTel6006	257	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
291)	10950.0000-11200.0000	H,V	1M43G1W	Rx			SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
292)	10950.0000-11200.0000	H,V	2M35G1W	Rx			SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
293)	10950.0000-11200.0000	H,V	44K8G1W	Rx			SeaTel6006		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
294)	10950.0000-11200.0000	H,V	54M0G7W	Rx			SeaTel6006	257	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
295)	10950.0000-11200.0000	H,V	717KG1W	Rx			SeaTel6006	257	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
296)	10950.0000-11200.0000	H,V	81K0G7W	Rx			SeaTel6006	257	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
297)	10950.0000-11200.0000	H,V	89K6G1W	Rx			SeaTel6006	257	DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
298)	14000.0000-14500.0000	H,V	151KG7W	Tx	46.90	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
299)	14000.0000-14500.0000	H,V	194KG7W	Tx	48.00	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
300)	14000.0000-14500.0000	H,V	1M43G1W	Tx	53.30	27.80	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
301)	14000.0000-14500.0000	H,V	291KG7W	Tx	49.70	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
302)	14000.0000-14500.0000	H,V	2M35G1W	Tx	53.30	25.60	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
303)	14000.0000-14500.0000	H,V	388KG7W	Tx	51.00	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
304)	14000.0000-14500.0000	H,V	445KG7W	Tx	51.60	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
305)	14000.0000-14500.0000	H,V	44K8G1W	Tx	41.60	31.10	SeaTel6009		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
306)	14000.0000-14500.0000	H,V	452KG7W	Tx	51.60	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
307)	14000.0000-14500.0000	H,V	717KG1W	Tx	53.30	30.80	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
308)	14000.0000-14500.0000	H,V	81K0G7W	Tx	44.20	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
309)	14000.0000-14500.0000	H,V	89K6G1W	Tx	44.60	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
310)	14000.0000-14500.0000	H,V	97K0G7W	Tx	44.90	31.10	SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
311)	11450.0000-12200.0000	H,V	1M43G1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
312)	11450.0000-12200.0000	H,V	2M35G1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
313)	11450.0000-12200.0000	H,V	44K8G1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
314)	11450.0000-12200.0000	H,V	54M0G7W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
315)	11450.0000-12200.0000	H,V	717KG1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
316)	11450.0000-12200.0000	H,V	81K0G7W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
317)	11450.0000-12200.0000	H,V	89K6G1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
318)	10950.0000-11200.0000	H,V	1M43G1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
319)	10950.0000-11200.0000	H,V	2M35G1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
320)	10950.0000-11200.0000	H,V	44K8G1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
321)	10950.0000-11200.0000	H,V	54M0G7W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
322)	10950.0000-11200.0000	H,V	717KG1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
323)	10950.0000-11200.0000	H,V	81K0G7W	Rx			SeaTel6009		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
324)	10950.0000-11200.0000	H,V	89K6G1W	Rx			SeaTel6009		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
325)	14000.0000-14500.0000	H,V	151KG7W	Tx	50.25	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
326)	14000.0000-14500.0000	H,V	194KG7W	Tx	51.35	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
327)	14000.0000-14500.0000	H,V	1M43G1W	Tx	59.95	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
328)	14000.0000-14500.0000	H,V	291KG7W	Tx	53.05	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
329)	14000.0000-14500.0000	H,V	2M35G1W	Tx	62.15	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
330)	14000.0000-14500.0000	H,V	2M77G1W	Tx	62.85	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
331)	14000.0000-14500.0000	H,V	388KG7W	Tx	54.35	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
332)	14000.0000-14500.0000	H,V	445KG7W	Tx	54.95	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
333)	14000.0000-14500.0000	H,V	44K8G1W	Tx	44.95	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
334)	14000.0000-14500.0000	H,V	452KG7W	Tx	54.95	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
335)	14000.0000-14500.0000	H,V	717KG1W	Tx	56.95	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
336)	14000.0000-14500.0000	H,V	81K0G7W	Tx	47.55	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
337)	14000.0000-14500.0000	H,V	89K6G1W	Tx	47.95	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
338)	14000.0000-14500.0000	H,V	97K0G7W	Tx	48.25	34.45	SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
339)	11450.0000-12200.0000	H,V	1M43G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
340)	11450.0000-12200.0000	H,V	2M35G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
341)	11450.0000-12200.0000	H,V	2M77G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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Name: Comsat, Inc. **Call Sign:** E890649
Authorization Type: Modification of License **File Number:** SES-MOD-20151009-00731
Common Carrier **Grant date:** 04/25/2016 **Expiration Date:** 07/14/2024

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
342)	11450.0000-12200.0000	H,V	44K8G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
343)	11450.0000-12200.0000	H,V	54M0G7W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
344)	11450.0000-12200.0000	H,V	717KG1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
345)	11450.0000-12200.0000	H,V	81K0G7W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
346)	11450.0000-12200.0000	H,V	89K6G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
347)	10950.0000-11200.0000	H,V	1M43G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
348)	10950.0000-11200.0000	H,V	2M35G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
349)	10950.0000-11200.0000	H,V	2M77G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
350)	10950.0000-11200.0000	H,V	44K8G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
351)	10950.0000-11200.0000	H,V	54M0G7W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
352)	10950.0000-11200.0000	H,V	717KG1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
353)	10950.0000-11200.0000	H,V	81K0G7W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
354)	10950.0000-11200.0000	H,V	89K6G1W	Rx			SeaTel9797		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
355)	14000.0000-14500.0000	H,V	1M43G1W	Tx	51.10	26.60	Seat4996T		SCPC USING QPSK AND BPSK MODULATION
356)	14000.0000-14500.0000	H,V	44K8G1W	Tx	36.10	25.60	Seat4996T		SCPC USING QPSK AND BPSK MODULATION
357)	14000.0000-14500.0000	H,V	717KG1W	Tx	48.10	25.60	Seat4996T		SCPC USING QPSK AND BPSK MODULATION
358)	14000.0000-14500.0000	H,V	89K6G1W	Tx	39.10	25.60	Seat4996T		SCPC USING QPSK AND BPSK MODULATION
359)	11450.0000-12200.0000	H,V	1M43G1W	Rx			Seat4996T		SCPC 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
360)	11450.0000-12200.0000	H,V	44K8G1W	Rx			Seat4996T		SCPC USING QPSK AND BPSK MODULATION
361)	11450.0000-12200.0000	H,V	717KG1W	Rx			Seat4996T		SCPC USING QPSK AND BPSK MODULATION
362)	11450.0000-12200.0000	H,V	89K6G1W	Rx			Seat4996T		SCPC USING QPSK AND BPSK MODULATION
363)	10950.0000-11200.0000	H,V	1M43G1W	Rx			Seat4996T		SCPC USING QPSK AND BPSK MODULATION
364)	10950.0000-11200.0000	H,V	44K8G1W	Rx			Seat4996T		SCPC USING QPSK AND BPSK MODULATION
365)	10950.0000-11200.0000	H,V	717KG1W	Rx			Seat4996T		SCPC USING QPSK AND BPSK MODULATION
366)	10950.0000-11200.0000	H,V	89K5G1W	Rx			Seat4996T		SCPC USING QPSK AND BPSK MODULATION
367)	14000.0000-14500.0000	H,V	151KG7W	Tx	41.70	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
368)	14000.0000-14500.0000	H,V	194KG7W	Tx	42.80	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
369)	14000.0000-14500.0000	H,V	1M43G1W	Tx	51.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
370)	14000.0000-14500.0000	H,V	291KG7W	Tx	44.50	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
371)	14000.0000-14500.0000	H,V	2M35G1W	Tx	53.40	25.70	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
372)	14000.0000-14500.0000	H,V	388KG7W	Tx	45.80	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
373)	14000.0000-14500.0000	H,V	445KG7W	Tx	46.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
374)	14000.0000-14500.0000	H,V	44K8G1W	Tx	36.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
375)	14000.0000-14500.0000	H,V	452KG7W	Tx	46.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
376)	14000.0000-14500.0000	H,V	717KG1W	Tx	48.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
377)	14000.0000-14500.0000	H,V	81K0G7W	Tx	39.00	25.90	T&TSAIL900		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
378)	14000.0000-14500.0000	H,V	89K6G1W	Tx	39.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
379)	14000.0000-14500.0000	H,V	97K0G7W	Tx	39.70	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
380)	11450.0000-12200.0000	H,V	1M43G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
381)	11450.0000-12200.0000	H,V	2M35G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
382)	11450.0000-12200.0000	H,V	44K8G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
383)	11450.0000-12200.0000	H,V	54M0G7W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
384)	11450.0000-12200.0000	H,V	717KG1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
385)	11450.0000-12200.0000	H,V	81K0G7W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
386)	11450.0000-12200.0000	H,V	89K6G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
387)	10950.0000-11200.0000	H,V	1M43G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
388)	10950.0000-11200.0000	H,V	2M35G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
389)	10950.0000-11200.0000	H,V	44K8G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
390)	10950.0000-11200.0000	H,V	54M0G7W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
391)	10950.0000-11200.0000	H,V	717KG1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
392)	10950.0000-11200.0000	H,V	81K0G7W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
393)	10950.0000-11200.0000	H,V	89K6G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.) East Limit	Satellite Arc (Deg. Long.) West Limit	Elevation (Degrees) East Limit	Elevation (Degrees) West Limit	Azimuth (Degrees) East Limit	Azimuth (Degrees) West Limit	Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
1)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel6009
2)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel6009
3)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel6009
4)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTL V110
5)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTL V110
6)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTL V110
7)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0		28.5	SeaTel5009
8)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel5009
9)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel5009
10)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			Seat4996T
11)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			Seat4996T
12)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			Seat4996T
13)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel5010
14)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel5010
15)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel5010
16)	14000.0000-14500.0000	46.0W-192.0W		05.2-05.4		099.8-260.2		28.2	14.2M.TIW
17)	10950.0000-11200.0000	46.0W-192.0W		05.2-05.4		099.8-260.2		0	14.2M.TIW
18)	11450.0000-12200.0000	46.0W-192.0W		05.2-05.4		099.8-260.2		0	14.2M.TIW
19)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaT4003A
20)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaT4003A
21)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaT4003A
22)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel4006
23)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel4006
24)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-254.0			SeaTel4006
25)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel4006
26)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel4006
27)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel4006
28)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel6006
29)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel6006
30)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel6006
31)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTL V80G
32)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTL V80G
33)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTL V80G
34)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			STL30/3011

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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.) East Limit	Satellite Arc (Deg. Long.) West Limit	Elevation (Degrees) East Limit	Elevation (Degrees) West Limit	Azimuth (Degrees) East Limit	Azimuth (Degrees) West Limit	Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
35)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			STL30/3011
36)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			STL30/3011
37)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			T&TSAIL900
38)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			T&TSAIL900
39)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			T&TSAIL900
40)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel9797
41)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel9797
42)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			SeaTel9797
43)	14000.0000-14500.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTLV60G
44)	11450.0000-12200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTLV60G
45)	10950.0000-11200.0000	46.0W-192.0W		10.0-10.0		090.0-264.0			INTLV60G

D) Points 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
16) ESV REMT14 to Permitted Space Station List
17) ESV REMOTES10 to Permitted Space Station List
18) ESV REMT11 to Permitted Space Station List

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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)
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) = 100.00
Maximum aggregate output EIRP for all carriers (dBW) = 84.60

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) = 6.70
Maximum aggregate output EIRP for all carriers (dBW) = 47.30

KUBAND ESV REMOTES	STL4009/10	500	1	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) = 6.70
Maximum aggregate output EIRP for all carriers (dBW) = 48.90

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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)
KUBAND REMOT ESV	SeaT4003A	500	1	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) = 5.70
Maximum aggregate output EIRP for all carriers (dBW) = 48.10

KUBAND REMOT ESV	SeaTel4006	250	1	SEATEL	4006			

Max Gains(s): 39.6 dBi @ 12.2000 GHz 40.6 dBi @ 14.2500 GHz
Maximum total input power at antenna flange (Watts) = 6.70
Maximum aggregate output EIRP for all carriers (dBW) = 48.90

KUBAND ESV REMOTES	SeaTel5009	500	1.2	SEATEL	5009			

Max Gains(s): 41.4 dBi @ 12.2000 GHz 43.0 dBi @ 14.2500 GHz
Maximum total input power at antenna flange (Watts) = 6.70
Maximum aggregate output EIRP for all carriers (dBW) = 51.30

KUBAND ESV REMOTES	SeaTel5010	500	1.2	SEA TEL	5010			

Max Gains(s): 43.0 dBi @ 14.2500 GHz 41.4 dBi @ 12.2000 GHz
Maximum total input power at antenna flange (Watts) = 6.70
Maximum aggregate output EIRP for all carriers (dBW) = 51.30

KUBAND ESV REMOTE	SeaTel6006	500	1.5	SEATEL	6006			

Max Gains(s): 43.8 dBi @ 12.2000 GHz 45.1 dBi @ 14.2500 GHz
Maximum total input power at antenna flange (Watts) = 6.73
Maximum aggregate output EIRP for all carriers (dBW) = 53.38

KUBAND ESV REMOTES	SeaTel6009	500	1.5	SEA TEL	6009			

Max Gains(s): 45.1 dBi @ 14.2500 GHz 43.8 dBi @ 12.2000 GHz
Maximum total input power at antenna flange (Watts) = 6.73
Maximum aggregate output EIRP for all carriers (dBW) = 53.38

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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 REMOTES1	SeaTel9797	500	2.4	SEA TEL	9797			

Max Gains(s): 47.8 dBi @ 11.8500 GHz 48.5 dBi @ 14.2500 GHz
Maximum total input power at antenna flange (Watts) = 33.66
Maximum aggregate output EIRP for all carriers (dBW) = 63.72

KUBAND ESV REMOTES	Seat4996T	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

ESV REMT14	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

F) Remote Control Point:

ESV REMOTES10 7676 PINE GROVE ROAD, 2.4 M. SEATEL9797 **Call Sign:** E890649
SANTA PAULA, VENTURA, CA 93060
805-933-4000/8722

ESV REMT11 7676 PINE GROVE ROAD, 0.6 M. INTELLIAN V60G **Call Sign:** E890649
SANTA PAULA, VENTURA, CA 93060
805-933-4000/8722

ESV REMT12 7676 PINE GROVE ROAD, 0.83 M. INTELLIAN V80G **Call Sign:** E890649
SANTA PAULA, VENTURA, CA 93060
805-933-4000/8722

RADIO STATION AUTHORIZATION

Name: Comsat, Inc. **Call Sign:** E890649
Authorization Type: Modification of License **File Number:** SES-MOD-20151009-00731
Common Carrier **Grant date:** 04/25/2016 **Expiration Date:** 07/14/2024

F) Remote Control Point:

ESV REMT13	7676 PINE GROVE ROAD, 0.75 M. STL30/3011 SANTA PAULA, VENTURA, CA 93060 805-933-4000/8722	**Call Sign:** E890649
ESV REMT14	7676 PINE GROVE ROAD, 1.0 M. T&TSAIL900 SANTA PAULA, VENTURA, CA 93060 805-933-4000/8722	**Call Sign:** E890649
KUBAND ESV REMOTE	7676 PINE GROVE ROAD, 1.5M. SeaTel6006 SANTA PAULA, VENTURA, CA 93060 805-933-4000	**Call Sign:** E890649
KUBAND ESV REMOTES	7676 PINE GROVE ROAD, 1.2 M. 4996T SANTA PAULA, VENTURA, CA 93060 805-933-4000	**Call Sign:** E890649
KUBAND REMOTE ESV	7676 PINE GROVE ROAD, 1.2 M. SeaTel5009 SANTA PAULA, VENTURA, CA 93060 805-933-4000	**Call Sign:** E890649
KUBAND REMOTE ESV	7676 PINE GROVE ROAD, 1.0 M. SeaTel4003A SANTA PAULA, VENTURA, CA 93060 805-933-4000	**Call Sign:** E890649

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

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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:

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.

257 --- Licensee is authorized to use the conventional Ku-band frequencies only 14.0-14.5 GHz and 11.7-12.2 GHz to communicate with ALSAT as a point of communication.

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

2658 --- The grant of this license is pursuant to NG104, which requires that signals received in the 10.7-11.7 GHz band be emanated from uplink transmissions outside the US&P.

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.

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).

3465 --- This authorization is subject to the policies adopted in the Report and Order, "Amendment of the Commission's Regulatory Policies to allow Non-US-Licensed Space Stations to provide Domestic and International Satellite Services in the United States," IB Docket 96-111, FCC 97-399 (Released November 26, 1997). (DISCO II)

5012 --- The authority granted here is limited to the operation of the facilities described above and does not include any authority to install and operate channelizing equipment or any other authority under Section 214 of the Communications Act of 1934, as amended, to establish channels of communications.

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.

Name: Comsat, Inc. **Call Sign:** E890649
Authorization Type: Modification of License **File Number:** SES-MOD-20151009-00731
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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:

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.

5017 --- Operation of this station is governed by the terms, conditions and limitations in Part 25 of the Commission's Rules and Regulations and the following additional conditions: 1. This license shall not vest in the Licensee(s) any right to operate the station or any right in the use of the frequencies designated in the license beyond its term or in any other manner than authorized in the license; 2. Neither the license nor the right granted under it shall be assigned or otherwise transferred in violation of the Commissions or otherwise transferred in violation of the Communications Act of 1934, as amended, or the Commission's Rules and Regulations issued under it; and 3. This station is subject to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended.

5018 --- This license shall be forfeited automatically if this station is not ready for operation within the time specified unless, prior to the expiration date of this license, the Commission receives an Application for Additional Time to Construct a Radio Station (FCC Form 701) filed by the Licensee(s) showing good cause why the Licensee(s) could not complete construction on time.

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.

5202 --- Use of this facility to provide international service on a common carrier basis will require appropriate authorization under Section 214 of the Communication Act of 1934, as amended.

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) 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.

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.

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).

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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Common Carrier **Grant date:** 04/25/2016 **Expiration Date:** 07/14/2024

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.

FCC Form 488