



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MFS-20150417-00221

Non Common Carrier

Grant date: 03/11/2016

Expiration Date: 02/20/2025



Nature of Service: Earth Stations on-board Vessels

Nature of Service: Fixed Satellite Service

Class of Station: Earth Stations on-board Vessels/VSAT

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	(C-ba) ESV9707/97/11	Operate up to 500 remotes (2.4M) US Internation water				83
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
2)	(Ku) ESV 3612	500 (0.9M. SEA TEL 3612)				83
		US Internation water,				
		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)	(Ku) ESV 4012	500 (1.06M. SEA TEL 4012)				83
		US Internation water,				
		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)	(Ku) ESV 9797/9711	500 (2.4M. SEA TEL 9797/9711)				83
		US Internation water,				
5)	(Ku) ESV INTV60G	500 (0.6M. INT V60G)				83
		US Internation water,				
		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.				



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6)	(Ku) ESV INTV80G	500 (0.83M. INT V80G) US Internation water, 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	
7)	(Ku) ESV REMOTE6006	500 (1.5M. SEA TEL 6006/09/12) US Internation water, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				83	
8)	(Ku) ESV REMOTE800A	500 (0.83M. SAILOR 800A) US Internation water, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				83	
9)	(Ku) ESV REMOTE900B	500 (1.0M. SAILOR 900B) US Internation water, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				83	
10)	(Ku) ESV TTSAIL900	Operate up to 500 remotes (1.0M) US Internation water Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				83	
11)	(Ku) ESVREMOTE .75M	Operate up to 500 remotes (.75M) US Internation water Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				83	



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12)	ESV INTV240K	500 (2.4M. INTV240K) US Internation water,				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.
13)	ESV/4003A	Operate up to 550 remotes (1.0M) CONUS,				83	
							Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.
14)	ESV/4996T	Operate up to 550 remotes (1.2M) CONUS,				83	
							Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209
15)	ESV/9711QOR-C	Operate up to 500 remotes (2.4M C-BAND) US Internation water				83	
							Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209
16)	ESV/9711QOR-F	Operate up to 500 remotes (1.2M KU-BAND) US Internation water				83	
							Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209
17)	ESV/INTV100K	Operate up to 500 remotes (1.06M KU-BAND) US Internation water				83	
							Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209



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18)	ESV/INTV130K1	Operate up to 500 remotes (1.25M KU-BAND) US Internation water				83
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
19)	ESV/INTV240	Operate up to 500 remotes (2.4M) US Internation water				83
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
20)	ESV/MIT/MVA12	Operate up to 500 remotes (1.2M KU-BAND) US Internation water				83
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
21)	ESV/MIT/MVA60	Operate up to 500 remotes (0.6M KU-BAND) US Internation water				83
22)	ESV/V110	500 (1.05M ANTENNAS) CONUS				83
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
23)	ESV4006/4009,	500 (1.0M. SEA TEL 4006/4009/4010) US Internation water,				83



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24)	ESV5009/5010,	500 (1.2M. SEA TEL 4006/4009/4010) US Internation water,				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.
25)	Hub 1.2M(Ku)	2120 River Road Southbury, New Haven, CT 06488	41°27'6.3"N	73°17'16.4"W	36.6	83	Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209
26)	REMOTE .75 M	100 (.75 M antennas) CONUS				83	Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.
27)	REMOTE .90 M	250 (.90 M antennas) CONUS				83	Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.
28)	REMOTE .96 M	500 (.96 M antennas) CONUS				83	Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.
29)	REMOTE 1	1,000 (1.2M ANTENNAS) CONUS				83	Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209



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30)	REMOTE 1.2MSINAERO	500 (1.2M. FLYAWAY) US Internation water CONUS, AK HI, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				83	
31)	REMOTE 2	1,000 (1.8M ANTENNAS) CONUS Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				83	
32)	REMOTE 3 (2.4M)	500 (2.4M ANTENNAS) CONUS Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				83	
33)	Remote 1.2m AVL	1000 (1.2M ANTENNAS) CONUS, Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				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 February 20, 2010 (3 AM Eastern Standard Time) and ending February 20, 2025 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is March 11, 2017 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.



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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
1)	14000.0000-14500.0000	H, V	15M0G1W	Tx	67.70	32.00	9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
2)	14000.0000-14500.0000	H, V	15M0G7W	Tx	67.70	32.00	9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
3)	14000.0000-14500.0000	H, V	44K8G1W	Tx	44.90	34.45	9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
4)	14000.0000-14500.0000	H, V	44K8G7W	Tx	44.90	34.45	9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
5)	11450.0000-12200.0000	H, V	44K8G1W	Rx			9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
6)	11450.0000-12200.0000	H, V	44K8G7W	Rx			9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
7)	11450.0000-12200.0000	H, V	54M0G1W	Rx			9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
8)	11450.0000-12200.0000	H, V	54M0G7W	Rx			9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
9)	10950.0000-11200.0000	H, V	44K8G1W	Rx			9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
10)	10950.0000-11200.0000	H, V	44K8G7W	Rx			9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
11)	10950.0000-11200.0000	H, V	54M0G1W	Rx			9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
12)	10950.0000-11200.0000	H, V	54M0G7W	Rx			9797/9711		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
13)	14000.0000-14500.0000	H, V, L, R	169KG7W	Tx	55.30	39.10	(Hub) 1.2M.		DIGITAL AUDIO, VIDEO, AND DATA
14)	14000.0000-14500.0000	H, V, L, R	1M62G7W	Tx	55.30	29.30	(Hub) 1.2M.		DIGITAL AUDIO, VIDEO, AND DATA
15)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	63.30	23.80	(Hub) 1.2M.		DIGITAL AUDIO, VIDEO, AND DATA
16)	14000.0000-14500.0000	H, V, L, R	64K0G7W	Tx	41.30	29.30	(Hub) 1.2M.		DIGITAL AUDIO, VIDEO, AND DATA
17)	11700.0000-12200.0000	H, V, L, R	36M0G7W	Rx			(Hub) 1.2M.		DIGITAL AUDIO, VIDEO, AND DATA
18)	11700.0000-12200.0000	H, V, L, R	3M00G7W	Rx			(Hub) 1.2M.		DIGITAL AUDIO, VIDEO, AND DATA



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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
19)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			(Hub) 1.2M.		DIGITAL AUDIO, VIDEO, AND DATA
20)	11700.0000-12200.0000	H, V, L, R	64K0G7W	Rx			(Hub) 1.2M.		DIGITAL AUDIO, VIDEO, AND DATA
21)	14000.0000-14500.0000	H, V, L, R	1M52G7W	Tx	49.50	25.00	.75M.		DIGITAL AUDIO, VIDEO, AND DATA
22)	14000.0000-14500.0000	H, V, L, R	342KG7W	Tx	43.00	25.00	.75M.		DIGITAL AUDIO, VIDEO, AND DATA
23)	11700.0000-12200.0000	H, V, L, R	3M00G7W	Rx			.75M.		DIGITAL AUDIO, VIDEO, AND DATA
24)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			.75M.		DIGITAL AUDIO, VIDEO, AND DATA
25)	14000.0000-14500.0000	H, V, L, R	1M52G7W	Tx	50.60	26.10	.90M.		DIGITAL AUDIO, VIDEO, AND DATA
26)	14000.0000-14500.0000	H, V, L, R	342KG7W	Tx	44.10	26.10	.90M.		DIGITAL AUDIO, VIDEO, AND DATA
27)	11700.0000-12200.0000	H, V, L, R	3M00G7W	Rx			.90M.		DIGITAL AUDIO, VIDEO, AND DATA
28)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			.90M.		DIGITAL AUDIO, VIDEO, AND DATA
29)	14000.0000-14500.0000	H, V, L, R	1M52G7W	Tx	51.70	27.20	.96M.		DIGITAL AUDIO, VIDEO, AND DATA
30)	14000.0000-14500.0000	H, V, L, R	342KG7W	Tx	45.20	27.20	.96M.		DIGITAL AUDIO, VIDEO, AND DATA
31)	11700.0000-12200.0000	H, V, L, R	3M00G7W	Rx			.96M.		DIGITAL AUDIO, VIDEO, AND DATA
32)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			.96M.		DIGITAL AUDIO, VIDEO, AND DATA
33)	14000.0000-14500.0000	H, V, L, R	169KG7W	Tx	58.50	42.30	1.8M.		DIGITAL AUDIO, VIDEO, AND DATA
34)	14000.0000-14500.0000	H, V, L, R	1M62G7W	Tx	58.50	32.50	1.8M.		DIGITAL AUDIO, VIDEO, AND DATA
35)	11700.0000-12200.0000	H, V, L, R	3M00G7W	Rx			1.8M.		DIGITAL AUDIO, VIDEO, AND DATA
36)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			1.8M.		DIGITAL AUDIO, VIDEO, AND DATA



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B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
37)	14000.0000-14500.0000	H, V, L, R	169KG7W	Tx	61.20	45.00	2.4M.		DIGITAL AUDIO, VIDEO, AND DATA
38)	14000.0000-14500.0000	H, V, L, R	1M62G7W	Tx	61.20	35.20	2.4M.		DIGITAL AUDIO, VIDEO, AND DATA
39)	11700.0000-12200.0000	H, V, L, R	3M00G7W	Rx			2.4M.		DIGITAL AUDIO, VIDEO, AND DATA
40)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			2.4M.		DIGITAL AUDIO, VIDEO, AND DATA
41)	14000.0000-14500.0000	H, V	44K8G1W	Tx	34.40	23.90	4003A		SPCP USING QPSK AND BPSK MODULATION
42)	14000.0000-14500.0000	H, V	538KG1W	Tx	45.20	23.90	4003A		SPCP USING QPSK AND BPSK MODULATION
43)	14000.0000-14500.0000	H, V	89K6G1W	Tx	37.40	23.90	4003A		SPCP USING QPSK AND BPSK MODULATION
44)	14000.0000-14500.0000	H, V	227KG7W	Tx	41.50	23.90	4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
45)	14000.0000-14500.0000	H, V	340KG7W	Tx	43.20	23.90	4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
46)	14000.0000-14500.0000	H, V	378KG7W	Tx	43.60	23.90	4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
47)	14000.0000-14500.0000	H, V	378KG7W	Tx	43.60	23.90	4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
48)	14000.0000-14500.0000	H, V	454KG7W	Tx	44.50	23.90	4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
49)	14000.0000-14500.0000	H, V	908KG7W	Tx	45.80	22.20	4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
50)	14000.0000-14500.0000	H, V	1M40G7W	Tx	45.80	20.30	4003A		DVB/MFTDMA USING QPSK AND BPSK MODULATION
51)	14000.0000-14500.0000	H, V	316KG7W	Tx	42.80	23.90	4003A		DVB/MFTDMA USING QPSK AND BPSK MODULATION
52)	14000.0000-14500.0000	H, V	607KG7W	Tx	45.70	23.90	4003A		DVB/MFTDMA USING QPSK AND BPSK MODULATION
53)	11450.0000-12200.0000	H, V	44K8G1W	Rx			4003A		SPCP USING QPSK AND BPSK MODULATION
54)	11450.0000-12200.0000	H, V	717KG1W	Rx			4003A		SPCP USING QPSK AND BPSK MODULATION



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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
55)	11450.0000-12200.0000	H, V	89K6G1W	Rx			4003A		SPCP USING QPSK AND BPSK MODULATION
56)	11450.0000-12200.0000	H, V	151KG7W	Rx			4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
57)	11450.0000-12200.0000	H, V	54M0G7W	Rx			4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
58)	11450.0000-12200.0000	H, V	2M60G7W	Rx			4003A		DVB/MFTDMA USING QPSK AND BPSK MODULATION
59)	11450.0000-12200.0000	H, V	54M0G7W	Rx			4003A		DVB/MFTDMA USING QPSK AND BPSK MODULATION
60)	10950.0000-11200.0000	H, V	44K8G1W	Rx			4003A		SPCP USING QPSK AND BPSK MODULATION
61)	10950.0000-11200.0000	H, V	717KG1W	Rx			4003A		SPCP USING QPSK AND BPSK MODULATION
62)	10950.0000-11200.0000	H, V	89K6G1W	Rx			4003A		SPCP USING QPSK AND BPSK MODULATION
63)	10950.0000-11200.0000	H, V	151KG7W	Rx			4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
64)	10950.0000-11200.0000	H, V	54M0G7W	Rx			4003A		TDM/TDMA USING QPSK AND BPSK MODULATION
65)	10950.0000-11200.0000	H, V	2M60G7W	Rx			4003A		DVB/MFTDMA USING QPSK AND BPSK MODULATION
66)	10950.0000-11200.0000	H, V	54M0G7W	Rx			4003A		DVB/MFTDMA USING QPSK AND BPSK MODULATION
67)	14000.0000-14500.0000	H, V	44K8G1W	Tx	34.80	24.30	4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
68)	14000.0000-14500.0000	H, V	44K8G7W	Tx	34.80	24.30	4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
69)	14000.0000-14500.0000	H, V	5M00G1W	Tx	51.87	20.90	4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
70)	14000.0000-14500.0000	H, V	5M00G7W	Tx	51.87	20.90	4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
71)	11450.0000-12200.0000	H, V	44K8G1W	Rx			4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
72)	11450.0000-12200.0000	H, V	44K8G7W	Rx			4006/09/10		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
73)	11450.0000-12200.0000	H, V	54M0G1W	Rx			4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
74)	11450.0000-12200.0000	H, V	54M0G7W	Rx			4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
75)	10950.0000-11200.0000	H, V	44K8G1W	Rx			4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
76)	10950.0000-11200.0000	H, V	44K8G7W	Rx			4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
77)	10950.0000-11200.0000	H, V	54M0G1W	Rx			4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
78)	10950.0000-11200.0000	H, V	54M0G7W	Rx			4006/09/10		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
79)	14000.0000-14500.0000	H, V	1M43G1W	Tx	51.10	26.60	4996T		SCPC USING QPSK AND BPSK MODULATION
80)	14000.0000-14500.0000	H, V	44K8G1W	Tx	36.10	25.60	4996T		SCPC USING QPSK AND BPSK MODULATION
81)	14000.0000-14500.0000	H, V	717KG1W	Tx	48.10	25.60	4996T		SCPC USING QPSK AND BPSK MODULATION
82)	14000.0000-14500.0000	H, V	89K6G1W	Tx	39.10	25.60	4996T		SCPC USING QPSK AND BPSK MODULATION
83)	11450.0000-12200.0000	H, V	1M43G1W	Rx			4996T		SCPC USING QPSK AND BPSK MODULATION
84)	11450.0000-12200.0000	H, V	44K8G1W	Rx			4996T		SCPC USING QPSK AND BPSK MODULATION
85)	11450.0000-12200.0000	H, V	717KG1W	Rx			4996T		SCPC USING QPSK AND BPSK MODULATION
86)	11450.0000-12200.0000	H, V	89K6G1W	Rx			4996T		SCPC USING QPSK AND BPSK MODULATION
87)	10950.0000-11200.0000	H, V	1M43G1W	Rx			4996T		SCPC USING QPSK AND BPSK MODULATION
88)	10950.0000-11200.0000	H, V	44K8G1W	Rx			4996T		SCPC USING QPSK AND BPSK MODULATION
89)	10950.0000-11200.0000	H, V	717KG1W	Rx			4996T		SCPC USING QPSK AND BPSK MODULATION
90)	10950.0000-11200.0000	H, V	89K6G1W	Rx			4996T		SCPC USING QPSK AND BPSK MODULATION



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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
91)	14000.0000-14500.0000	H, V	44K8G1W	Tx	39.50	29.00	5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
92)	14000.0000-14500.0000	H, V	44K8G7W	Tx	39.50	29.00	5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
93)	14000.0000-14500.0000	H, V	8M00G1W	Tx	56.26	23.26	5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
94)	14000.0000-14500.0000	H, V	8M00G7W	Tx	56.26	23.26	5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
95)	11450.0000-12200.0000	H, V	44K8G1W	Rx			5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
96)	11450.0000-12200.0000	H, V	44K8G7W	Rx			5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
97)	11450.0000-12200.0000	H, V	54M0G1W	Rx			5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
98)	11450.0000-12200.0000	H, V	54M0G7W	Rx			5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
99)	10950.0000-11200.0000	H, V	44K8G1W	Rx			5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
100)	10950.0000-11200.0000	H, V	44K8G7W	Rx			5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
101)	10950.0000-11200.0000	H, V	54M0G1W	Rx			5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
102)	10950.0000-11200.0000	H, V	54M0G7W	Rx			5009/10/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
103)	14000.0000-14500.0000	H, V	10M0G1W	Tx	64.40	30.40	6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
104)	14000.0000-14500.0000	H, V	10M0G7W	Tx	64.40	30.40	6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
105)	14000.0000-14500.0000	H, V	44K8G1W	Tx	41.60	31.10	6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
106)	14000.0000-14500.0000	H, V	44K8G7W	Tx	41.60	31.10	6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
107)	11450.0000-12200.0000	H, V	44K8G1W	Rx			6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
108)	11450.0000-12200.0000	H, V	44K8G7W	Rx			6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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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
109)	11450.0000-12200.0000	H, V	54M0G1W	Rx			6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
110)	11450.0000-12200.0000	H, V	54M0G7W	Rx			6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
111)	10950.0000-11200.0000	H, V	44K8G1W	Rx			6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
112)	10950.0000-11200.0000	H, V	44K8G7W	Rx			6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
113)	10950.0000-11200.0000	H, V	54M0G1W	Rx			6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
114)	10950.0000-11200.0000	H, V	54M0G7W	Rx			6006/09/12		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
115)	5925.0000-6425.0000	H, V, L, R	15M0G1W	Tx	60.95	25.21	9711QOR-C		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
116)	5925.0000-6425.0000	H, V, L, R	15M0G7W	Tx	60.95	25.21	9711QOR-C		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
117)	5925.0000-6425.0000	H, V, L, R	44K8G1W	Tx	49.50	39.00	9711QOR-C		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
118)	5925.0000-6425.0000	H, V, L, R	44K8G7W	Tx	49.50	39.00	9711QOR-C		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
119)	3700.0000-4200.0000	H, V, L, R	44K8G1W	Rx			9711QOR-C		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
120)	3700.0000-4200.0000	H, V, L, R	44K8G7W	Rx			9711QOR-C		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
121)	3700.0000-4200.0000	H, V, L, R	54M0G1W	Rx			9711QOR-C		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
122)	3700.0000-4200.0000	H, V, L, R	54M0G7W	Rx			9711QOR-C		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
123)	14000.0000-14500.0000	H, V	44K8G1W	Tx	39.50	29.00	9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
124)	14000.0000-14500.0000	H, V	44K8G7W	Tx	39.50	29.00	9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
125)	14000.0000-14500.0000	H, V	8M00G1W	Tx	56.26	23.26	9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
126)	14000.0000-14500.0000	H, V	8M00G7W	Tx	56.26	23.26	9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
127)	11450.0000-12200.0000	H, V	44K8G1W	Rx			9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
128)	11450.0000-12200.0000	H, V	44K8G7W	Rx			9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
129)	11450.0000-12200.0000	H, V	54M0G1W	Rx			9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
130)	11450.0000-12200.0000	H, V	54M0G7W	Rx			9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
131)	10950.0000-11200.0000	H, V	44K8G1W	Rx			9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
132)	10950.0000-11200.0000	H, V	44K8G7W	Rx			9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
133)	10950.0000-11200.0000	H, V	54M0G1W	Rx			9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
134)	10950.0000-11200.0000	H, V	54M0G7W	Rx			9711QORKU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
135)	14000.0000-14500.0000	H, V, L, R	1M55G7W	Tx	55.10	29.20	AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
136)	14000.0000-14500.0000	H, V, L, R	388KG7W	Tx	49.10	29.20	AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
137)	14000.0000-14500.0000	H, V, L, R	3M10G7W	Tx	58.10	29.20	AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
138)	14000.0000-14500.0000	H, V, L, R	64K0G7W	Tx	41.30	29.20	AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
139)	14000.0000-14500.0000	H, V, L, R	776KG7W	Tx	52.10	29.10	AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
140)	11700.0000-12200.0000	H, V, L, R	45M0G7W	Rx			AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
141)	11700.0000-12200.0000	H, V, L, R	64K0G7W	Rx			AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION



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B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
142)	11450.0000-11700.0000	H, V, L, R	45M0G7W	Rx			AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
143)	11450.0000-11700.0000	H, V, L, R	64K0G7W	Rx			AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
144)	10950.0000-11200.0000	H, V, L, R	45M0G7W	Rx			AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
145)	10950.0000-11200.0000	H, V, L, R	64K0G7W	Rx			AVL 1.2M.		DIGITAL AUDIO, VIDEO AND DATA USING QPSK AND BPSK MODULATION
146)	5925.0000-6425.0000	H, V, L, R	15M0G1W	Tx	60.95	25.21	C-ba 2.4M.		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
147)	5925.0000-6425.0000	H, V, L, R	15M0G7W	Tx	60.95	25.21	C-ba 2.4M.		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
148)	5925.0000-6425.0000	H, V, L, R	44K8G1W	Tx	49.50	39.00	C-ba 2.4M.		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
149)	5925.0000-6425.0000	H, V, L, R	44K8G7W	Tx	49.50	39.00	C-ba 2.4M.		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
150)	3700.0000-4200.0000	H, V, L, R	44K8G1W	Rx			C-ba 2.4M.		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
151)	3700.0000-4200.0000	H, V, L, R	44K8G7W	Rx			C-ba 2.4M.		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
152)	3700.0000-4200.0000	H, V, L, R	54M0G1W	Rx			C-ba 2.4M.		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
153)	3700.0000-4200.0000	H, V, L, R	54M0G7W	Rx			C-ba 2.4M.		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
154)	5925.0000-6425.0000	H, V, L, R	15M0G1W	Tx	60.70	25.00	INT V240		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
155)	5925.0000-6425.0000	H, V, L, R	15M0G7W	Tx	60.70	25.00	INT V240		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
156)	5925.0000-6425.0000	H, V, L, R	44K8G1W	Tx	49.50	39.00	INT V240		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
157)	5925.0000-6425.0000	H, V, L, R	44K8G7W	Tx	49.50	39.00	INT V240		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
158)	3700.0000-4200.0000	H, V, L, R	44K8G1W	Rx			INT V240		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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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
159)	3700.0000-4200.0000	H, V, L, R	44K8G7W	Rx			INT V240		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
160)	3700.0000-4200.0000	H, V, L, R	54M0G1W	Rx			INT V240		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
161)	3700.0000-4200.0000	H, V, L, R	54M0G7W	Rx			INT V240		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
162)	14000.0000-14500.0000	H, V	44K8G1W	Tx	37.10	26.60	INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
163)	14000.0000-14500.0000	H, V	44K8G7W	Tx	37.10	26.60	INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
164)	14000.0000-14500.0000	H, V	5M00G1W	Tx	52.60	21.63	INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
165)	14000.0000-14500.0000	H, V	5M00G7W	Tx	52.60	21.63	INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
166)	11450.0000-12200.0000	H, V	44K8G1W	Rx			INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
167)	11450.0000-12200.0000	H, V	44K8G7W	Rx			INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
168)	11450.0000-12200.0000	H, V	54M0G1W	Rx			INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
169)	11450.0000-12200.0000	H, V	54M0G7W	Rx			INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
170)	10950.0000-11200.0000	H, V	44K8G1W	Rx			INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
171)	10950.0000-11200.0000	H, V	44K8G7W	Rx			INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
172)	10950.0000-11200.0000	H, V	54M0G1W	Rx			INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
173)	10950.0000-11200.0000	H, V	54M0G7W	Rx			INTV100KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
174)	14000.0000-14500.0000	H, V	44K8G1W	Tx	39.70	29.20	INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
175)	14000.0000-14500.0000	H, V	44K8G7W	Tx	39.70	29.20	INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
176)	14000.0000-14500.0000	H, V	8M00G1W	Tx	54.40	21.40	INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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The General Provision 1010 applies to all receiving frequency bands.

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
177)	14000.0000-14500.0000	H, V	8M00G7W	Tx	54.40	21.40	INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
178)	11450.0000-12200.0000	H, V	44K8G1W	Rx			INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
179)	11450.0000-12200.0000	H, V	44K8G7W	Rx			INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
180)	11450.0000-12200.0000	H, V	54M0G1W	Rx			INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
181)	11450.0000-12200.0000	H, V	54M0G7W	Rx			INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
182)	10950.0000-11200.0000	H, V	44K8G1W	Rx			INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
183)	10950.0000-11200.0000	H, V	44K8G7W	Rx			INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
184)	10950.0000-11200.0000	H, V	54M0G1W	Rx			INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
185)	10950.0000-11200.0000	H, V	54M0G7W	Rx			INTV130KU		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
186)	14000.0000-14500.0000	H, V	15M0G1W	Tx	66.60	30.90	INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
187)	14000.0000-14500.0000	H, V	15M0G7W	Tx	66.60	30.90	INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
188)	14000.0000-14500.0000	H, V	44K8G1W	Tx	44.50	34.00	INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
189)	14000.0000-14500.0000	H, V	44K8G7W	Tx	44.50	34.00	INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
190)	11450.0000-12200.0000	H, V	44K8G1W	Rx			INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
191)	11450.0000-12200.0000	H, V	44K8G7W	Rx			INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
192)	11450.0000-12200.0000	H, V	54M0G1W	Rx			INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
193)	11450.0000-12200.0000	H, V	54M0G7W	Rx			INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
194)	10950.0000-11200.0000	H, V	44K8G1W	Rx			INTV240K		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
195)	10950.0000-11200.0000	H, V	44K8G7W	Rx			INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
196)	10950.0000-11200.0000	H, V	54M0G1W	Rx			INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
197)	10950.0000-11200.0000	H, V	54M0G7W	Rx			INTV240K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
198)	14000.0000-14500.0000	H, V	1M20G1W	Tx	40.57	15.80	INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
199)	14000.0000-14500.0000	H, V	1M20G7W	Tx	40.57	15.80	INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
200)	14000.0000-14500.0000	H, V	44K8G1W	Tx	26.30	15.80	INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
201)	14000.0000-14500.0000	H, V	44K8G7W	Tx	26.30	15.80	INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
202)	11450.0000-12200.0000	H, V	44K8G1W	Rx			INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
203)	11450.0000-12200.0000	H, V	44K8G7W	Rx			INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
204)	11450.0000-12200.0000	H, V	54M0G1W	Rx			INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
205)	11450.0000-12200.0000	H, V	54M0G7W	Rx			INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
206)	10950.0000-11200.0000	H, V	44K8G1W	Rx			INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
207)	10950.0000-11200.0000	H, V	44K8G7W	Rx			INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
208)	10950.0000-11200.0000	H, V	54M0G1W	Rx			INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
209)	10950.0000-11200.0000	H, V	54M0G7W	Rx			INTV60G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
210)	14000.0000-14500.0000	H, V	1M20G1W	Tx	44.14	19.37	INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
211)	14000.0000-14500.0000	H, V	1M20G7W	Tx	44.14	19.37	INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
212)	14000.0000-14500.0000	H, V	44K8G1W	Tx	29.87	19.37	INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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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
213)	14000.0000-14500.0000	H, V	44K8G7W	Tx	29.87	19.37	INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
214)	11450.0000-12200.0000	H, V	44K8G1W	Rx			INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
215)	11450.0000-12200.0000	H, V	44K8G7W	Rx			INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
216)	11450.0000-12200.0000	H, V	54M0G1W	Rx			INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
217)	11450.0000-12200.0000	H, V	54M0G7W	Rx			INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
218)	10950.0000-11200.0000	H, V	44K8G1W	Rx			INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
219)	10950.0000-11200.0000	H, V	44K8G7W	Rx			INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
220)	10950.0000-11200.0000	H, V	54M0G1W	Rx			INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
221)	10950.0000-11200.0000	H, V	54M0G7W	Rx			INTV80G		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
222)	14000.0000-14500.0000	H, V	44K8G1W	Tx	44.22	33.72	MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
223)	14000.0000-14500.0000	H, V	44K8G7W	Tx	44.22	33.72	MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
224)	14000.0000-14500.0000	H, V	8M00G1W	Tx	55.72	22.72	MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
225)	14000.0000-14500.0000	H, V	8M00G7W	Tx	55.72	22.72	MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
226)	11450.0000-12200.0000	H, V	44K8G1W	Rx			MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
227)	11450.0000-12200.0000	H, V	44K8G7W	Rx			MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
228)	11450.0000-12200.0000	H, V	54M0G1W	Rx			MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
229)	11450.0000-12200.0000	H, V	54M0G7W	Rx			MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
230)	10950.0000-11200.0000	H, V	44K8G1W	Rx			MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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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
231)	10950.0000-11200.0000	H, V	44K8G7W	Rx			MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
232)	10950.0000-11200.0000	H, V	54M0G1W	Rx			MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
233)	10950.0000-11200.0000	H, V	54M0G7W	Rx			MITMVA12K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
234)	14000.0000-14500.0000	H, V	1M10G1W	Tx	46.34	21.95	MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
235)	14000.0000-14500.0000	H, V	1M10G7W	Tx	46.34	21.95	MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
236)	14000.0000-14500.0000	H, V	44K8G1W	Tx	34.93	24.43	MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
237)	14000.0000-14500.0000	H, V	44K8G7W	Tx	34.93	24.43	MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
238)	11450.0000-12200.0000	H, V	44K8G1W	Rx			MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
239)	11450.0000-12200.0000	H, V	44K8G7W	Rx			MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
240)	11450.0000-12200.0000	H, V	54M0G1W	Rx			MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
241)	11450.0000-12200.0000	H, V	54M0G7W	Rx			MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
242)	10950.0000-11200.0000	H, V	44K8G1W	Rx			MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
243)	10950.0000-11200.0000	H, V	44K8G7W	Rx			MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
244)	10950.0000-11200.0000	H, V	54M0G1W	Rx			MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
245)	10950.0000-11200.0000	H, V	54M0G7W	Rx			MITMVA60K		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
246)	14000.0000-14500.0000	H, V, L, R	10M0G1W	Tx	58.84	24.84	SA-1.2MFLY		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
247)	14000.0000-14500.0000	H, V, L, R	10M0G7W	Tx	58.84	24.84	SA-1.2MFLY		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
248)	14000.0000-14500.0000	H, V, L, R	64K0G1W	Tx	40.14	28.10	SA-1.2MFLY		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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B) Particulars of Operations.

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
249)	14000.0000-14500.0000	H, V, L, R	64K0G7W	Tx	40.14	28.10	SA-1.2MFLY		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
250)	11700.0000-12200.0000	H, V, L, R	1M00G1W	Rx			SA-1.2MFLY		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
251)	11700.0000-12200.0000	H, V, L, R	1M00G7W	Rx			SA-1.2MFLY		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
252)	11700.0000-12200.0000	H, V, L, R	36M0G1W	Rx			SA-1.2MFLY		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
253)	11700.0000-12200.0000	H, V, L, R	36M0G7W	Rx			SA-1.2MFLY		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
254)	14000.0000-14500.0000	H, V	44K8G1W	Tx	31.30	20.80	SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
255)	14000.0000-14500.0000	H, V	44K8G7W	Tx	31.30	20.80	SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
256)	14000.0000-14500.0000	H, V	5M00G1W	Tx	47.40	16.40	SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
257)	14000.0000-14500.0000	H, V	5M00G7W	Tx	47.40	16.40	SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
258)	11450.0000-12200.0000	H, V	44K8G1W	Rx			SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
259)	11450.0000-12200.0000	H, V	44K8G7W	Rx			SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
260)	11450.0000-12200.0000	H, V	54M0G1W	Rx			SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
261)	11450.0000-12200.0000	H, V	54M0G7W	Rx			SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
262)	10950.0000-11200.0000	H, V	44K8G1W	Rx			SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
263)	10950.0000-11200.0000	H, V	44K8G7W	Rx			SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
264)	10950.0000-11200.0000	H, V	54M0G1W	Rx			SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
265)	10950.0000-11200.0000	H, V	54M0G7W	Rx			SAILOR800A		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
266)	14000.0000-14500.0000	H, V	44K8G1W	Tx	35.80	25.30	SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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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
267)	14000.0000-14500.0000	H, V	44K8G7W	Tx	35.80	25.30	SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
268)	14000.0000-14500.0000	H, V	5M00G1W	Tx	49.80	18.80	SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
269)	14000.0000-14500.0000	H, V	5M00G7W	Tx	49.80	18.80	SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
270)	11450.0000-12200.0000	H, V	44K8G1W	Rx			SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
271)	11450.0000-12200.0000	H, V	44K8G7W	Rx			SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
272)	11450.0000-12200.0000	H, V	54M0G1W	Rx			SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
273)	11450.0000-12200.0000	H, V	54M0G7W	Rx			SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
274)	10950.0000-11200.0000	H, V	44K8G1W	Rx			SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
275)	10950.0000-11200.0000	H, V	44K8G7W	Rx			SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
276)	10950.0000-11200.0000	H, V	54M0G1W	Rx			SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
277)	10950.0000-11200.0000	H, V	54M0G7W	Rx			SAILOR900B		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
278)	14000.0000-14500.0000	H, V	44K8G1W	Tx	30.70	20.20	SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
279)	14000.0000-14500.0000	H, V	44K8G7W	Tx	30.70	20.20	SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
280)	14000.0000-14500.0000	H, V	5M00G1W	Tx	51.20	20.20	SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
281)	14000.0000-14500.0000	H, V	5M00G7W	Tx	51.20	20.20	SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
282)	11450.0000-12200.0000	H, V	44K8G1W	Rx			SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
283)	11450.0000-12200.0000	H, V	44K8G7W	Rx			SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
284)	11450.0000-12200.0000	H, V	54M0G1W	Rx			SEAT3612		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
285)	11450.0000-12200.0000	H, V	54M0G7W	Rx			SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
286)	10950.0000-11200.0000	H, V	44K8G1W	Rx			SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
287)	10950.0000-11200.0000	H, V	44K8G7W	Rx			SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
288)	10950.0000-11200.0000	H, V	54M0G1W	Rx			SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
289)	10950.0000-11200.0000	H, V	54M0G7W	Rx			SEAT3612		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
290)	14000.0000-14500.0000	H, V	44K8G1W	Tx	35.70	25.20	SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
291)	14000.0000-14500.0000	H, V	44K8G7W	Tx	35.70	25.20	SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
292)	14000.0000-14500.0000	H, V	50M0G1W	Tx	53.50	22.50	SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
293)	14000.0000-14500.0000	H, V	5M00G7W	Tx	53.50	22.50	SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
294)	11450.0000-12200.0000	H, V	44K8G1W	Rx			SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
295)	11450.0000-12200.0000	H, V	44K8G7W	Rx			SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
296)	11450.0000-12200.0000	H, V	54M0G1W	Rx			SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
297)	11450.0000-12200.0000	H, V	54M0G7W	Rx			SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
298)	10950.0000-11200.0000	H, V	44K8G7W	Rx			SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
299)	10950.0000-11200.0000	H, V	54M0G1W	Rx			SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
300)	10950.0000-11200.0000	H, V	54M0G7W	Rx			SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
301)	10950.0000-10950.0000	H, V	44K8G1W	Rx			SEAT4012		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
302)	14000.0000-14500.0000	H, V	128KG1W	Tx	32.50	17.40	STLUSAT30		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
303)	14000.0000-14500.0000	L,R	128KG7W	Tx	32.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
304)	14000.0000-14500.0000	H,V	1M02G1W	Tx	41.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
305)	14000.0000-14500.0000	H,V	1M02G7W	Tx	41.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
306)	14000.0000-14500.0000	H,V	1M28G1W	Tx	42.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
307)	14000.0000-14500.0000	H,V	1M28G7W	Tx	42.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
308)	14000.0000-14500.0000	H,V	1M54G1W	Tx	43.20	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
309)	14000.0000-14500.0000	H,V	1M54G7W	Tx	43.20	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
310)	14000.0000-14500.0000	H,V	1M79G1W	Tx	43.90	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
311)	14000.0000-14500.0000	H,V	1M79G7W	Tx	43.90	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
312)	14000.0000-14500.0000	H,V	256KG1W	Tx	35.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
313)	14000.0000-14500.0000	H,V	256KG7W	Tx	35.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
314)	14000.0000-14500.0000	H,V	2M05G1W	Tx	44.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
315)	14000.0000-14500.0000	H,V	2M05G7W	Tx	44.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
316)	14000.0000-14500.0000	H,V	2M56G1W	Tx	45.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
317)	14000.0000-14500.0000	H,V	2M56G7W	Tx	45.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
318)	14000.0000-14500.0000	H,V	3M07G1W	Tx	46.30	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
319)	14000.0000-14500.0000	H,V	3M07G7W	Tx	46.30	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
320)	14000.0000-14500.0000	H,V	3M58G1W	Tx	46.90	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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Non Common Carrier

Grant date: 03/11/2016

Expiration Date: 02/20/2025

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
321)	14000.0000-14500.0000	H, V	3M58G7W	Tx	46.90	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
322)	14000.0000-14500.0000	H, V	4M10G1W	Tx	47.30	17.20	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
323)	14000.0000-14500.0000	H, V	4M10G7W	Tx	47.30	17.20	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
324)	14000.0000-14500.0000	H, V	512KG1W	Tx	38.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
325)	14000.0000-14500.0000	H, V	512KG7W	Tx	38.50	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
326)	14000.0000-14500.0000	H, V	768KG1W	Tx	40.20	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
327)	14000.0000-14500.0000	H, V	768KG7W	Tx	40.20	17.40	STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
328)	11450.0000-12200.0000	H, V	1M00G1W	Rx			STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
329)	11450.0000-12200.0000	H, V	1M00G7W	Rx			STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
330)	11450.0000-12200.0000	H, V	45M0G1W	Rx			STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
331)	11450.0000-12200.0000	H, V	45M0G7W	Rx			STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
332)	10950.0000-11200.0000	H, V	1M00G1W	Rx			STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
333)	10950.0000-11200.0000	H, V	1M00G7W	Rx			STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
334)	10950.0000-11200.0000	H, V	45M0G1W	Rx			STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
335)	10950.0000-11200.0000	H, V	45M0G7W	Rx			STLUSAT30		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
336)	14000.0000-14500.0000	H, V	151KG7W	Tx	41.70	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
337)	14000.0000-14500.0000	H, V	194KG7W	Tx	42.80	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
338)	14000.0000-14500.0000	H, V	1M43G1W	Tx	51.40	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
339)	14000.0000-14500.0000	H, V	291KG7W	Tx	44.50	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
340)	14000.0000-14500.0000	H, V	2M35G1W	Tx	53.40	25.70	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
341)	14000.0000-14500.0000	H, V	388KG7W	Tx	45.80	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
342)	14000.0000-14500.0000	H, V	445KG7W	Tx	46.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
343)	14000.0000-14500.0000	H, V	44K8G1W	Tx	36.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
344)	14000.0000-14500.0000	H, V	452KG7W	Tx	46.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
345)	14000.0000-14500.0000	H, V	717KG1W	Tx	48.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
346)	14000.0000-14500.0000	H, V	81K0G7W	Tx	39.00	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
347)	14000.0000-14500.0000	H, V	89K6G1W	Tx	39.40	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
348)	14000.0000-14500.0000	H, V	97K0G7W	Tx	39.70	25.90	T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
349)	11450.0000-12200.0000	H, V	1M43G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
350)	11450.0000-12200.0000	H, V	2M35G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
351)	11450.0000-12200.0000	H, V	44K8G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
352)	11450.0000-12200.0000	H, V	54M0G7W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
353)	11450.0000-12200.0000	H, V	717KG1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
354)	11450.0000-12200.0000	H, V	81K0G7W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
355)	11450.0000-12200.0000	H, V	89K6G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
356)	10950.0000-11200.0000	H, V	1M43G1W	Rx			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
357)	10950.0000-11200.0000	H, V	2M35G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
358)	10950.0000-11200.0000	H, V	44K8G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
359)	10950.0000-11200.0000	H, V	54M0G7W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
360)	10950.0000-11200.0000	H, V	717KG1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
361)	10950.0000-11200.0000	H, V	81K0G7W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
362)	10950.0000-11200.0000	H, V	89K6G1W	Rx			T&TSAIL900		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
363)	14000.0000-14500.0000	H, V	194KG7W	Tx	42.40	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
364)	14000.0000-14500.0000	H, V	1M16G7W	Tx	49.80	25.20	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
365)	14000.0000-14500.0000	H, V	1M36G7W	Tx	49.80	24.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
366)	14000.0000-14500.0000	H, V	1M55G7W	Tx	49.80	23.90	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
367)	14000.0000-14500.0000	H, V	291KG7W	Tx	44.10	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
368)	14000.0000-14500.0000	H, V	388KG7W	Tx	45.40	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
369)	14000.0000-14500.0000	H, V	44K8G1W	Tx	36.00	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
370)	14000.0000-14500.0000	H, V	485KG7W	Tx	46.30	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
371)	14000.0000-14500.0000	H, V	582KG7W	Tx	47.10	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
372)	14000.0000-14500.0000	H, V	64K0G7W	Tx	37.50	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
373)	14000.0000-14500.0000	H, V	679KG7W	Tx	47.80	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
374)	14000.0000-14500.0000	H, V	717KG1W	Tx	48.00	25.50	V1110		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
375)	14000.0000-14500.0000	H, V	776KG7W	Tx	48.40	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
376)	14000.0000-14500.0000	H, V	89K6G1W	Tx	39.00	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
377)	14000.0000-14500.0000	H, V	970KG7W	Tx	49.30	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
378)	14000.0000-14500.0000	H, V	97K0G7W	Tx	39.30	25.50	V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
379)	11450.0000-12200.0000	H, V	151KG7W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
380)	11450.0000-12200.0000	H, V	2M60G7W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
381)	11450.0000-12200.0000	H, V	44K8G1W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
382)	11450.0000-12200.0000	H, V	54M0G7W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
383)	11450.0000-12200.0000	H, V	717KG1W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
384)	11450.0000-12200.0000	H, V	89K6G1W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
385)	10950.0000-11200.0000	H, V	151KG7W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
386)	10950.0000-11200.0000	H, V	2M60G7W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
387)	10950.0000-11200.0000	H, V	44K8G1W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
388)	10950.0000-11200.0000	H, V	54M0G7W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
389)	10950.0000-11200.0000	H, V	717KG1W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION
390)	10950.0000-11200.0000	H, V	89K6G1W	Rx			V1110		DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	14000.0000-14500.0000	3.0W	125.0W	10.0	10.0	090.0	270.0		4996T
2)	11450.0000-12200.0000	3.0W	125.0W	10.0	10.0	090.0	270.0		4996T
3)	10950.0000-11200.0000	3.0W	125.0W	10.0	10.0	090.0	270.0		4996T
4)	11700.0000-12200.0000								.75M.
5)	14000.0000-14500.0000								.75M.
6)	11700.0000-12200.0000								.90M.
7)	14000.0000-14500.0000								.90M.
8)	11700.0000-12200.0000								.96M.
9)	14000.0000-14500.0000								.96M.
10)	14000.0000-14500.0000	3.0W	125.0W	10.0	10.0	090.0	270.0		4003A
11)	11450.0000-12200.0000	3.0W	125.0W	10.0	10.0	090.0	270.0		4003A
12)	10950.0000-11200.0000	3.0W	125.0W	10.0	10.0	090.0	270.0		4003A
13)	14000.0000-14500.0000								STLUSAT30
14)	11450.0000-12200.0000								STLUSAT30
15)	10950.0000-11200.0000								STLUSAT30
16)	14000.0000-14500.0000								T&TSAIL900
17)	11450.0000-12200.0000								T&TSAIL900
18)	10950.0000-11200.0000								T&TSAIL900
19)	5925.0000-6425.0000								C-ba 2.4M.
20)	3700.0000-4200.0000								C-ba 2.4M.
21)	5925.0000-6425.0000								INT V240
22)	3700.0000-4200.0000								INT V240
23)	5925.0000-6425.0000								9711QOR-C
24)	3700.0000-4200.0000								9711QOR-C
25)	14000.0000-14500.0000								9711QORKU
26)	10950.0000-11200.0000								9711QORKU
27)	11450.0000-12200.0000								9711QORKU
28)	14000.0000-14500.0000								INTV100KU
29)	10950.0000-11200.0000								INTV100KU
30)	11450.0000-12200.0000								INTV100KU
31)	14000.0000-14500.0000								INTV130KU
32)	11450.0000-12200.0000								INTV130KU
33)	10950.0000-11200.0000								INTV130KU
34)	14000.0000-14500.0000								MITMVA60K
35)	11450.0000-12200.0000								MITMVA60K



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
36)	10950.0000-11200.0000								MITMVA60K
37)	14000.0000-14500.0000								MITMVA12K
38)	11450.0000-12200.0000								MITMVA12K
39)	10950.0000-11200.0000								MITMVA12K
40)	11700.0000-12200.0000	3.0W-112.0W		06.0-28.1		103.3-230.4			(Hub) 1.2M.
41)	14000.0000-14500.0000	3.0W-112.0W		06.0-28.1		103.3-230.4	2.64		(Hub) 1.2M.
42)	14000.0000-14500.0000			05.0-05.0					SAILOR900B
43)	10950.0000-12200.0000			05.0-05.0					SAILOR900B
44)	14000.0000-14500.0000	64.0W-144.0W		05.0-05.0					SA-1.2MFLY
45)	11700.0000-12200.0000	64.0W-144.0W		05.0-05.0					SA-1.2MFLY
46)	14000.0000-14500.0000			05.0-05.0					6006/09/12
47)	10950.0000-12200.0000			05.0-05.0					6006/09/12
48)	14000.0000-14500.0000			05.0-05.0					SAILOR800A
49)	10950.0000-12200.0000			05.0-05.0					SAILOR800A
50)	14000.0000-14500.0000			05.0-05.0					4006/09/10
51)	10950.0000-12200.0000			05.0-05.0					4006/09/10
52)	14000.0000-14500.0000			05.0-05.0					INTV60G
53)	10950.0000-12200.0000			05.0-05.0					INTV60G
54)	14000.0000-14500.0000			05.0-05.0					INTV80G
55)	10950.0000-12200.0000			05.0-05.0					INTV80G
56)	14000.0000-14500.0000			05.0-05.0					INTV240K
57)	10950.0000-12200.0000			05.0-05.0					INTV240K
58)	14000.0000-14500.0000			05.0-05.0					SEAT3612
59)	10950.0000-12200.0000			05.0-05.0					SEAT3612
60)	14000.0000-14500.0000			05.0-05.0					SEAT4012
61)	10950.0000-12200.0000			05.0-05.0					SEAT4012
62)	14000.0000-14500.0000			05.0-05.0					5009/10/12
63)	10950.0000-12200.0000			05.0-05.0					5009/10/12
64)	14000.0000-14500.0000								9797/9711
65)	10950.0000-12200.0000								9797/9711

D) Points of Communications

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

- 1) ESV/4996T to Permitted Space Station List



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D) Points of Communications

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

- 2) ESV/4996T to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 3) ESV/4996T to INTELSAT 705 satellites @ 50 W.L. of the INTELSAT system (U.S.-licensed)
- 4) Remote 1.2m AVL to Permitted Space Station List
- 5) ESV/V110 to Permitted Space Station List
- 6) REMOTE 1 to Permitted Space Station List
- 7) REMOTE 3 (2.4M) to Permitted Space Station List
- 8) REMOTE .75 M to New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
- 9) REMOTE .90 M to New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
- 10) REMOTE .96 M to New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
- 11) ESV/4003A to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 12) ESV/4003A to Permitted Space Station List
- 13) ESV/4003A to INTELSAT 705 satellites @ 50 W.L. of the INTELSAT system (U.S.-licensed)
- 14) (Ku) ESVREMOTE .75M to Permitted Space Station List
- 15) (Ku) ESV TTSAIL900 to Permitted Space Station List
- 16) (C-ba) ESV9707/97/11 to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 17) (C-ba) ESV9707/97/11 to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 18) ESV/INTV240 to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 19) ESV/INTV240 to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 20) ESV/9711QOR-C to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 21) ESV/9711QOR-C to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 22) ESV/9711QOR-KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 23) ESV/9711QOR-KU to Permitted Space Station List
- 24) ESV/9711QOR-KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 25) ESV/INTV100KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 26) ESV/INTV100KU to Permitted Space Station List
- 27) ESV/INTV100KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 28) ESV/INTV130KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 29) ESV/INTV130KU to Permitted Space Station List
- 30) ESV/INTV130KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 31) ESV/MIT/MVA60KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 32) ESV/MIT/MVA60KU to Permitted Space Station List
- 33) ESV/MIT/MVA60KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 34) ESV/MIT/MVA120KU to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)
- 35) ESV/MIT/MVA120KU to Permitted Space Station List
- 36) ESV/MIT/MVA120KU to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 37) REMOTE 2 to Permitted Space Station List



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RADIO STATION AUTHORIZATION

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MFS-20150417-00221

Non Common Carrier

Grant date: 03/11/2016

Expiration Date: 02/20/2025

D) Points of Communications

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

- 38) (Ku) ESV REMOTE900B to Permitted Space Station List
- 39) REMOTE 1.2MSINAERO to Permitted Space Station List
- 40) (Ku) ESV REMOTE800A to Permitted Space Station List
- 41) (Ku) ESV REMOTE6006 to Permitted Space Station List
- 42) ESV4006/4009/4010 to Permitted Space Station List
- 43) (Ku) ESV INTV60G to Permitted Space Station List
- 44) (Ku) ESV INTV80G to Permitted Space Station List
- 45) ESV INTV240K to Permitted Space Station List
- 46) (Ku) ESV 3612 to Permitted Space Station List
- 47) (Ku) ESV 4012 to Permitted Space Station List
- 48) ESV5009/5010/5012 to Permitted Space Station List
- 49) (Ku) ESV 9797/9711 to Permitted Space Station List

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
(Ku) ESV 9797/9711	9797/9711	500	2.4	SEA TEL	9797/9711KU			
Max Gains(s):		47.8 dBi @	11.8500 GHz	48.5 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						84.14		
Maximum aggregate output EIRP for all carriers (dBW) =						67.70		
Hub 1.2M(Ku)	(Hub)1.2M.	1	1.2	PRODELIN	1123	36.6	2 AGL/ 37.6 AMSL	
Max Gains(s):		41.7 dBi @	11.9500 GHz	43.3 dBi @	14.2500 GHz	41.7 dBi @		
		11.9500 GHz	43.3 dBi @	14.2500 GHz				
Maximum total input power at antenna flange (Watts) =						100.00		
Maximum aggregate output EIRP for all carriers (dBW) =						63.30		
REMOTE .75 M	.75M.	100	0.75	VISIOSAT	VISIOSAT 75		2 AGL	
Max Gains(s):		37.5 dBi @	11.9500 GHz	39.0 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						11.20		
Maximum aggregate output EIRP for all carriers (dBW) =						49.50		



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E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
REMOTE .90 M	.90M.	250	0.9	VISIOSAT	VISIOSAT 90			
Max Gains(s):		38.7 dBi @	11.9500 GHz	40.1 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						11.20		
Maximum aggregate output EIRP for all carriers (dBW) =						50.60		
REMOTE .96 M	.96M.	500	0.96	ANDREW	TYPE 960		2 AGL	
Max Gains(s):		39.7 dBi @	11.9500 GHz	41.2 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						11.20		
Maximum aggregate output EIRP for all carriers (dBW) =						51.70		
REMOTE 1	1.2M.	1000	1.2	ANDREW	123/124		2.5 AGL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =						100.00		
Maximum aggregate output EIRP for all carriers (dBW) =						63.30		
REMOTE 2	1.8M.	1000	1.8	ANDREW	183		3.1 AGL	
Max Gains(s):		44.0 dBi @	11.0000 GHz	46.0 dBi @	14.0000 GHz			
Maximum total input power at antenna flange (Watts) =						100.00		
Maximum aggregate output EIRP for all carriers (dBW) =						66.50		
REMOTE 3 (2.4M)	2.4M.	500	2.4	ANDREW	243		3.7 AGL	
Max Gains(s):		47.0 dBi @	11.0000 GHz	49.0 dBi @	14.0000 GHz			
Maximum total input power at antenna flange (Watts) =						100.00		
Maximum aggregate output EIRP for all carriers (dBW) =						69.20		
ESV/4003A	4003A	250	1	SEATEL	4003A			
Max Gains(s):		40.1 dBi @	11.9500 GHz	41.8 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						2.50		
Maximum aggregate output EIRP for all carriers (dBW) =						45.80		



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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)
ESV4006/4009	4006/09/10	500	1	SEA TEL	4006,4009, & 4010			
		Max Gains(s):		39.6 dBi @ 12.2000 GHz	40.6 dBi @ 14.2500 GHz			
		Maximum total input power at antenna flange (Watts) =		13.40				
		Maximum aggregate output EIRP for all carriers (dBW) =		51.87				
ESV/4996T	4996T	50	1.2	SEATEL	4996T			
		Max Gains(s):		41.6 dBi @ 11.9500 GHz	42.5 dBi @ 14.2500 GHz			
		Maximum total input power at antenna flange (Watts) =		7.10				
		Maximum aggregate output EIRP for all carriers (dBW) =		51.10				
ESV5009/5010	5009/10/12	500	1.2	SEA TEL	5009/5010/5012			
		Max Gains(s):		43.0 dBi @ 12.2000 GHz	43.8 dBi @ 14.2500 GHz			
		Maximum total input power at antenna flange (Watts) =		21.19				
		Maximum aggregate output EIRP for all carriers (dBW) =		56.26				
(Ku) ESV REMOTE6006	6006/09/12	500	1.5	SEA TEL	6006/6009/6012			
		Max Gains(s):		41.4 dBi @ 12.2000 GHz	45.1 dBi @ 14.2500 GHz			
		Maximum total input power at antenna flange (Watts) =		85.11				
		Maximum aggregate output EIRP for all carriers (dBW) =		64.40				
ESV/9711QOR-	9711QOR-C	500	2.4	SEA TEL	9711QOR-C			
		Max Gains(s):		38.5 dBi @ 3.9500 GHz	41.7 dBi @ 6.1800 GHz			
		Maximum total input power at antenna flange (Watts) =		84.14				
		Maximum aggregate output EIRP for all carriers (dBW) =		60.95				
ESV/9711QOR-	9711QORKU	500	1.2	SEA TEL	9711QOR-KU			
		Max Gains(s):		43.0 dBi @ 14.2500 GHz	43.8 dBi @ 12.2000 GHz			
		Maximum total input power at antenna flange (Watts) =		21.19				
		Maximum aggregate output EIRP for all carriers (dBW) =		56.26				



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E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
Remote 1.2m AVL	AVL 1.2M.	1000	1.2	AVL	1.2M Ku-band		2.5 AGL	
	Max Gains(s):	42.0 dBi @	11.8500 GHz	43.2 dBi @	14.2500 GHz			
	Maximum total input power at antenna flange (Watts) =				35.70			
	Maximum aggregate output EIRP for all carriers (dBW) =				58.70			
(C-ba) ESV9707/97/11	C-ba 2.4M.	500	2.4	SEA TEL	9707/9797/9711			
	Max Gains(s):	38.5 dBi @	3.9500 GHz	41.7 dBi @	6.1800 GHz			
	Maximum total input power at antenna flange (Watts) =				84.14			
	Maximum aggregate output EIRP for all carriers (dBW) =				60.95			
ESV/INTV240	INT V240	500	2.4	INTELLIAN	V240			
	Max Gains(s):	37.7 dBi @	3.9100 GHz	41.7 dBi @	6.1400 GHz			
	Maximum total input power at antenna flange (Watts) =				79.43			
	Maximum aggregate output EIRP for all carriers (dBW) =				60.70			
ESV/INTV100K	INTV100KU	500	1.06	INTELLIAN	V100			
	Max Gains(s):	41.2 dBi @	14.2500 GHz	39.8 dBi @	11.8500 GHz			
	Maximum total input power at antenna flange (Watts) =				13.80			
	Maximum aggregate output EIRP for all carriers (dBW) =				52.60			
ESV/INTV130K	INTV130KU	500	1.25	INTELLIAN	V130			
	Max Gains(s):	43.2 dBi @	14.2500 GHz	41.6 dBi @	11.8500 GHz			
	Maximum total input power at antenna flange (Watts) =				13.18			
	Maximum aggregate output EIRP for all carriers (dBW) =				54.40			
ESV INTV240K	INTV240K	500	2.4	INTELLIAN	V240K			
	Max Gains(s):	46.8 dBi @	11.8500 GHz	48.0 dBi @	14.2500 GHz			
	Maximum total input power at antenna flange (Watts) =				72.44			
	Maximum aggregate output EIRP for all carriers (dBW) =				66.60			



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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)
(Ku) ESV INTV60G	INTV60G	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		
(Ku) ESV INTV80G	INTV80G	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) =						50.14		
ESV/MIT/MVA1	MITMVA12K	500	1.2	MITSUBISHI	MVA120			
Max Gains(s):		47.7 dBi @	14.2500 GHz	41.6 dBi @	11.7000 GHz			
Maximum total input power at antenna flange (Watts) =						6.31		
Maximum aggregate output EIRP for all carriers (dBW) =						55.72		
ESV/MIT/MVA6	MITMVA60K	500	0.6	MITSUBISHI	MVA60			
Max Gains(s):		38.4 dBi @	14.2500 GHz	35.3 dBi @	11.7000 GHz			
Maximum total input power at antenna flange (Watts) =						6.18		
Maximum aggregate output EIRP for all carriers (dBW) =						46.34		
REMOTE 1.2MSINAERO	SA-1.2MFLY	500	1.2	SINAERO	SA-1.2TFLY			
Max Gains(s):		41.5 dBi @	12.2000 GHz	42.1 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						47.20		
Maximum aggregate output EIRP for all carriers (dBW) =						58.84		
(Ku) ESV REMOTE6006	SAILOR800A	500	0.83	THRANE & THRANE	TT-7080A SAILOR 800A			
Max Gains(s):		37.9 dBi @	11.7000 GHz	40.0 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						5.50		
Maximum aggregate output EIRP for all carriers (dBW) =						47.40		



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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)
(Ku) ESV REMOTE900B	SAILOR900B	500	1	THRANE & THRANE	TT-7090B SAILOR 900B			
Max Gains(s):		40.2 dBi @	11.7000 GHz	41.1 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =		7.44						
Maximum aggregate output EIRP for all carriers (dBW) =		49.81						
(Ku) ESV 361	SEAT3612	500	0.9	SEA TEL	3612			
Max Gains(s):		39.0 dBi @	11.7000 GHz	40.5 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =		15.14						
Maximum aggregate output EIRP for all carriers (dBW) =		52.30						
(Ku) ESV 401	SEAT4012	500	1.06	SEA TEL	4012			
Max Gains(s):		40.0 dBi @	12.5000 GHz	41.8 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =		14.79						
Maximum aggregate output EIRP for all carriers (dBW) =		53.50						
(Ku) ESV REMOTE .75M	STLUSAT30	500	0.75	SEA TEL	USAT-30			
Max Gains(s):		37.6 dBi @	11.8500 GHz	39.0 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =		6.70						
Maximum aggregate output EIRP for all carriers (dBW) =		47.30						
(Ku) ESV TTSAIL900	T&TSAIL900	500	1	THRANE & THRANE	TT-7090A			
Max Gains(s):		40.0 dBi @	11.7500 GHz	41.7 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =		14.93						
Maximum aggregate output EIRP for all carriers (dBW) =		53.44						
ESV/V110	V1110	500	1.05	INTELLIAN	V110			
Max Gains(s):		39.6 dBi @	12.2000 GHz	41.7 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =		6.97						
Maximum aggregate output EIRP for all carriers (dBW) =		49.83						



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F) Remote Control Point:

(C-ba) ESV9707/97/11	2120 RIVER ROAD SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: KA313
(Ku) ESV 3612	2120 RIVER ROAD, (0.9M. SEA TEL 3612) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
(Ku) ESV 4012	2120 RIVER ROAD, (1.06M. SEA TEL 4012) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
(Ku) ESV 9797/9711	2120 RIVER ROAD, (2.4M. SEA TEL 9797/9711) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
(Ku) ESV INTV60G	2120 RIVER ROAD, (0.6M. INT V60G) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
(Ku) ESV INTV80G	2120 RIVER ROAD, (0.83M. INT V80G) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
(Ku) ESV REMOTE6006	2120 RIVER ROAD, (0.83M. SAILOR 800A) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313



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F) Remote Control Point:

(Ku) ESV REMOTE6006	2120 RIVER ROAD, (1.5M. SEA TEL 6006/09/12) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
(Ku) ESV REMOTE900B	2120 RIVER ROAD, (1.0M. SAILOR 900B) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
(Ku) ESVREMOTE .75M	2120 RIVER ROAD, SOUTHBURY NEW HAVEN, CT 06488 203-262-5000	Call Sign: KA313
ESV INTV240K	2120 RIVER ROAD, (2.4M. INTV240K) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
ESV/4003A	2120 RIVER ROAD SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: N/A
ESV/4996T	2120 RIVER ROAD SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: N/A
ESV/9711QOR	2120 RIVER ROAD, (2.4M C-BAND) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: KA313
ESV/9711QOR	2120 RIVER ROAD, (1.2M KU-BAND) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: KA313



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F) Remote Control Point:

ESV/INTV100F	2120 RIVER ROAD, (1.06M KU-BAND) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: KA313
ESV/INTV130F	2120 RIVER ROAD, (1.25M KU-BAND) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: KA313
ESV/INTV240	2120 RIVER ROAD SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: KA313
ESV/MIT/MVA	2120 RIVER ROAD, (1.2M KU-BAND) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5000	Call Sign: KA313
ESV/MIT/MVA	2120 RIVER ROAD, (0.6M KU-BAND) SOUTHBURY, NEW HAVEN, CT 96488 203-262-5000	Call Sign: KA313
ESV/V110	2120 RIVER ROAD SOUTHBURY, NEW HAVE, CT 06488 203-262-8722	Call Sign: N/A
ESV4006/4009/	2120 RIVER ROAD, (1.0M. SEA TEL 4006/4009/4010) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313
ESV5009/5010/	2120 RIVER ROAD, (1.2M. SEA TEL 4006/4009/4010) SOUTHBURY, NEW HAVEN, CT 06488 203-262-5010	Call Sign: KA313



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F) Remote Control Point:

REMOTE .75 2120 RIVER ROAD Call Sign: N/A
M

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

REMOTE .90 2120 RIVER ROAD Call Sign: N/A
M

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

REMOTE .96 2120 RIVER ROAD Call Sign: N/A
M

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

REMOTE 1 2120 RIVER ROAD Call Sign: KA313

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

REMOTE 2120 RIVER ROAD, (1.2M. FLYAWAY) Call Sign: KA313
1.2MSINAERO

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

REMOTE 2 2120 RIVER ROAD Call Sign: N/A

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

REMOTE 3 2120 RIVER ROAD Call Sign: N/A
(2.4M)

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



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F) Remote Control Point:

Remote 1.2m 2120 River Road
AVL

Call Sign: N/A

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

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

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

- 102 --- 24 Hour Contact: Applicant has provided the name and telephone number of a contact person in the United States, available seven days a week, twenty-four hours a day, for cessation of emissions from suspected source of interference in the event of need to resolve interference issues, on direction from authority with jurisdiction for licensing in the area of operation.
- 105 --- Subject to Rule Making: This license is subject to the outcome of any future rule making concerning ESV operations. Grant of this authorization shall not prejudice the outcome of any rulemaking.
- 167 --- This authorization is limited to the total number of terminals listed in Section A of this license for this Site ID.
- 249 --- This license is granted authority to provide services for both Earth Stations on-board Vessels (ESV) and VSAT Network.
- 372 --- IN THE BAND 3600-3650 MHZ, IN ACCORDANCE WITH US245. i) AN EMC ANALYSIS BASIS ON THE NTIA TR-99-361 REPORT WAS PERFORMED BY THE NON-GOVERNMENT APPLICANT AND THE NON-GOVERNMENT APPLICANT AGREES TO ACCEPT THIS POTENTIAL FOR UNACCEPTABLE INTERFERENCE, AND ii) THESE FIXED-SATELLITE SERVICE OPERATIONS ARE LIMITED TO INTERNATIONAL INTER-CONTINENTAL SYSTEMS (S816)\$
- 1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.
- 1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Comsat, Inc.

Call Sign: KA313

Authorization Type: Modification of License

File Number: SES-MFS-20150417-00221

Non Common Carrier

Grant date: 03/11/2016

Expiration Date: 02/20/2025

H) Special and General Provisions

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

- 2038 --- The licensee shall take extraordinary measures to ensure that the antenna does not create the potential for exposure of persons who may be within the immediate vicinity to radiofrequency radiation in excess of FCC safety guidelines. The earth station antenna shall be surrounded by a fence, at least 2 meters tall with a locked gate, to prevent human exposure in excess of the FCC-specified safety limit of 1 mW/cm². Warning signs, such as those discussed in the FCC's OET Bulletin 65, shall be posted informing members of the public to keep outside the locked area.
- 2300 --- Authority is granted to operate this station by remote control provided that: (1) the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).
- 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 3212 --- The licensee shall take extraordinary measures to ensure that multiple antennas co-located at the same site do not create potential exposure to radiofrequency radiation in excess of FCC safety guidelines. Antennas shall be surrounded by a fence, at least 2 meters tall with a locked gate, to prevent human exposure in excess of the FCC-specified safety limit of 1 mW/cm². Warning signs, such as those discussed in the FCC's OET Bulletin 65, shall be posted informing members of the public to keep outside the locked area. All operations must be in compliance with Section 1.1307 (b)(3) of the Commission's Rules. (See 47 CFR 1.1307 (b) (3)).
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
- 3853 --- The use of the bands 10.95-11.2 GHz and 11.45-11.7 GHz in the fixed-satellite service is limited to international systems.
- 4203 --- The grant of this license is pursuant to NG104.
- 4325 --- Frequencies in the L-bands will be used only for occasional testing of the L-to-C and C-to-L INMARSAT or INMARSAT Ltd. satellite transponders, frequency translation error correction, and network coordination purposes.
- 4334 --- NG182 In the bands 10.95-11.2 GHz and 11.45-11.7 GHz, earth stations on vessels (ESV) may be authorized to communicate with U.S. earth stations through space stations of the fixed satellite service but must accept interference from terrestrial systems operating in accordance with Commission Rules.



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Grant date: 03/11/2016

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H) Special and General Provisions

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

5014 --- With respect to potential co-channel interference to or from terrestrial microwave radio stations, the transmit and receive frequency bands listed in this license have been cleared for transmissions to and from satellites located in the geostationary or non-geostationary orbit for the emissions designated in Section B of this license.

5015 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and that the station is operational including the date of commencement of service and will remain operational during the license period unless the license is submitted for cancellation.

5062 --- the Licensee(s) shall maintain as its first priority the service of maritime commercial, safety and distress needs, and in particular uphold the safety and distress requirements of the Global Maritime Distress and Safety System.

5208 --- The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) 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.

5216 --- All operations shall be on a non-common carrier basis.

5241 --- The use of the frequency bands 10950 - 11200 and 11450 - 11700 MHz in the fixed satellite service is limited to international service.

5417 --- The remotes in this authorization are limited to communicate with NSS-7 satellite only.

5418 --- The user must provide the NAVAL ELECTROMAGNETIC SPECTRUM CENTER(703-325-2750) a 24hr phone number which would be contacted when national defense and US naval operation requirements necessitate immediate cessation of operations. The licensee is aware that they would be required to temporarily cease satellite operations on these frequencies until notified otherwise.

5630 --- International services shall be consistent with this emission designator, the underlying title III application(s) and the acquisition of any necessary Section 214 authority.

5813 --- This authorization is issued pursuant to and subject to the terms and conditions in the Commission's Order released March 19, 1991, DA 91-303.



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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:

- 5814 --- This authorization is issued pursuant to and subject to the terms and conditions in the Commission's Order released July 8, 1996, DA 96-1079, and Erratum released July 9, 1996.
- 5830 --- This authorization is subject to the conditions and terms set forth in the Commission's Memorandum Opinion, Order and Authorization, FCC 01-272, released October 9, 2001 (INMARSAT Ltd. Order).
- 5880 --- Use of this facility to provide international service on a common carrier basis requires a separate authorization under Section 214 of the Communication Act of 1934, as amended.
- 90013 --- The licensee shall not operate in the band 14.0-14.2 GHz within 125 km of the NASA TDRSS facilities on Guam (located at latitude 13°36'55" N, longitude 144°51'22" E) or White Sands, New Mexico (located at latitude 32°20'59" N, longitude 106°36'31" W and latitude 32°32'40" N, longitude 106°36'48" W), or any future TDRSS facility NTIA notifies to the FCC, unless and until the licensee enters into an agreement with NASA that NTIA has approved. The licensee must conform its operations to the terms of any coordination agreement with the NASA and must file a copy of the agreement with the Commission within 30 days of execution.
- 90014 --- The licensee shall not operate in the band 14.47-14.50 GHz within (a) 45 km of the radio observatory on St. Croix, Virgin Islands (located at latitude 17°46' N, longitude 64°35' W); (b) 125 km of the radio observatory on Mauna Kea, Hawaii (located at latitude 19°48' N, longitude 155°28' W); and (c) 90 km of the Arecibo Observatory on Puerto Rico (located at latitude 18°20'46" W, longitude 66°45'11" N) unless and until the licensee enters into an agreement with the National Science Foundation that has been approved by NTIA. The licensee must conform its operations to the terms of any coordination agreement with the National Science Foundation and must file a copy of the agreement with the Commission within 30 days of execution.



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

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

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

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

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

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

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

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

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

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

