



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

Name: Comsat, Inc.

Call Sign: E990034

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00748

Common Carrier

Grant date: 04/25/2016

Expiration Date: 02/20/2026



Nature of Service: Fixed Satellite Service

Nature of Service: Mobile Satellite Service

Class of Station: Mobile Earth Station

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	2.2M	2120 RIVER ROAD SOUTHURY, NEW HAVEN, CT 06488	41°27'7.0"N	73°17'17.3"W	36.6	83

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

2)	28CBAND	2120 RIVER ROAD SOUTHURY, NEW HAVEN, CT 06488	41°27'7.0"N	73°17'17.3"W	36.6	83
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Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

3)	28LBAND	2120 RIVER ROAD SOUTHURY, NEW HAVEN, CT 06488	41°27'7.0"N	73°17'17.3"W	36.6	83
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Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning February 20, 2011 (3 AM Eastern Standard Time) and ending February 20, 2026 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is April 25, 2017 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.



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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)	1660.5000-1660.5000	R	600HG1D	Tx	15.00	15.00	2.2M		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
2)	1626.5000-1660.5000	R	NON	Tx	37.00	37.00	2.2M		PILOT
3)	1626.5000-1660.5000	R	600KFXN	Tx	39.70	39.70	2.2M		test signal
4)	1626.5000-1660.5000	R	10K5G1E	Tx	27.00	22.80	2.2M		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
5)	1626.5000-1660.5000	R	1K20G1D	Tx	18.00	18.00	2.2M		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
6)	1626.5000-1660.5000	R	2K40G1D	Tx	21.00	21.00	2.2M		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
7)	1626.5000-1660.5000	R	1K20G1D	Tx	16.00	16.00	2.2M		STD-C, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
8)	1626.5000-1660.5000	R	600HG1D	Tx	16.00	16.00	2.2M		STD-C, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
9)	1626.5000-1660.5000	R	24K0F3E	Tx	39.70	37.40	2.2M		STD A VOICE, SCPC-FM, , to support the Fourth Ocean Region Standard A Network Coordination Station
10)	1530.0000-1559.0000	R	NON	Rx			2.2M		PILOT
11)	1530.0000-1559.0000	R	10K5G1E	Rx			2.2M		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
12)	1530.0000-1559.0000	R	1K20G1D	Rx			2.2M		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station



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13)	1530.0000-1559.0000	R	2K40G1D	Rx			2.2M		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
14)	1530.0000-1559.0000	R	600HG1D	Rx			2.2M		AERO, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
15)	1530.0000-1559.0000	R	1K20G1D	Rx			2.2M		STD-C, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
16)	1530.0000-1559.0000	R	600HG1D	Rx			2.2M		STD-C, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
17)	1530.0000-1559.0000	R	1K20G1D	Rx			2.2M		STD A TEL, BPSK, to support the Fourth Ocean Region Standard A Network Coordination Station
18)	1530.0000-1559.0000	R	24K0F3E	Rx	0.00		2.2M		STD A VOICE, SCPC-FM, to support the Fourth Ocean Region Standard A Network Coordination Station
19)	6454.4000-6456.6000	R	10K5G2F	Tx	44.50	40.30	28CBAND		DIGITAL CARRIER
20)	6454.4000-6456.6000	R	1K20G1D	Tx	44.50	44.50	28CBAND		DIGITAL CARRIER
21)	6454.4000-6456.6000	R	1K20G2D	Tx	44.50	44.50	28CBAND		DIGITAL CARRIER
22)	6454.4000-6456.6000	R	2K40G2D	Tx	44.50	44.50	28CBAND		DIGITAL CARRIER
23)	6454.4000-6456.6000	R	2M20G1D	Tx	78.00	50.60	28CBAND		DIGITAL CARRIER
24)	6454.4000-6456.6000	R	2M20G1D	Tx	82.30	54.90	28CBAND		DIGITAL CARRIER
25)	6454.4000-6456.6000	R	600HG1D	Tx	44.50	44.50	28CBAND		DIGITAL CARRIER
26)	6454.4000-6456.6000	R	600HG2D	Tx	44.50	44.50	28CBAND		DIGITAL CARRIER
27)	6425.0000-6454.0000	L,R	100KG1X	Tx	60.80	46.80	28CBAND		DIGITAL DATA
28)	6425.0000-6454.0000	L,R	10K0G1X	Tx	61.20	57.20	28CBAND		DIGITAL 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
29)	6425.0000-6454.0000	L,R	17K5G1D	Tx	61.40	55.00	28CBAND		DIGITAL DATA
30)	6425.0000-6454.0000	R	1K20G1D	Tx	44.50	44.50	28CBAND		DIGITAL DATA
31)	6425.0000-6454.0000	L,R	20K0G1E	Tx	56.80	49.80	28CBAND		DIGITAL DATA
32)	6425.0000-6454.0000	L,R	2K50F1D	Tx	58.80	58.80	28CBAND		DIGITAL DATA
33)	6425.0000-6454.0000	L,R	2K50G1D	Tx	65.70	65.70	28CBAND		DIGITAL DATA
34)	6425.0000-6454.0000	L,R	45K0G7D	Tx	66.00	55.50	28CBAND		DIGITAL DATA
35)	6425.0000-6454.0000	L,R	5K00G1D	Tx	61.80	60.80	28CBAND		DIGITAL DATA
36)	6425.0000-6454.0000	L,R	5K00G1E	Tx	51.90	50.90	28CBAND		DIGITAL DATA
37)	6425.0000-6454.0000	L,R	5K00G1W	Tx	51.90	50.90	28CBAND		DIGITAL DATA
38)	6425.0000-6454.0000	R	600HG2D	Tx	44.50	44.50	28CBAND		DIGITAL DATA
39)	6425.0000-6454.0000	L,R	60K0D1W	Tx	65.90	54.10	28CBAND		DIGITAL DATA
40)	6425.0000-6454.0000	L,R	7K50G1D	Tx	59.10	56.40	28CBAND		DIGITAL DATA
41)	6425.0000-6454.0000	L,R	7K50G1E	Tx	62.20	59.50	28CBAND		DIGITAL DATA
42)	6425.0000-6454.0000	L,R	7K50G1W	Tx	58.40	55.70	28CBAND		DIGITAL DATA
43)	6425.0000-6454.0000	L,R	10K0G1W	Tx	59.70	55.70	28CBAND		DIGITAL CARRIER
44)	6425.0000-6454.0000	R	10K5G2F	Tx	44.50	44.30	28CBAND		DIGITAL CARRIER
45)	6425.0000-6454.0000	R	1K20G2D	Tx	44.50	44.50	28CBAND		DIGITAL CARRIER
46)	6425.0000-6454.0000	R	2K40G2D	Tx	44.50	44.50	28CBAND		DIGITAL CARRIER
47)	6425.0000-6454.0000	R	2M20G1D	Tx	78.00	50.60	28CBAND		DIGITAL CARRIER
48)	6425.0000-6454.0000	R	2M20G1D	Tx	82.30	54.90	28CBAND		DIGITAL CARRIER
49)	6425.0000-6454.0000	R	600HG1D	Tx	44.50	44.50	28CBAND		DIGITAL CARRIER
50)	6425.0000-6443.0000	L,R	NON	Tx	70.00	70.00	28CBAND		COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS



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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
51)	6425.0000-6443.0000	L,R	600KFXN	Tx	70.00	70.00	28CBAND		COMMUNICATIONS MONITORING SIGNALS SYSTEMS AND TEST
52)	6417.5000-6443.0000	L,R	12K0G1D	Tx	70.00	65.20	28CBAND		DIGITAL DATA
53)	6417.5000-6443.0000	L,R	12K0G3E	Tx	70.00	65.20	28CBAND		DIGITAL DATA
54)	6417.5000-6443.0000	L,R	4K00G1D	Tx	70.00	70.00	28CBAND		DIGITAL DATA
55)	6417.5000-6443.0000	L,R	4K00G3E	Tx	70.00	70.00	28CBAND		DIGITAL DATA
56)	6417.5000-6443.0000	L,R	6K00G1D	Tx	70.00	68.24	28CBAND		DIGITAL DATA
57)	6417.5000-6443.0000	L,R	7K50G3E	Tx	70.00	67.30	28CBAND		DIGITAL DATA
58)	6416.0000-6418.0000	L,R	900KF2D	Tx	75.00	51.50	28CBAND		ANALOG VIDEO
59)	6170.0000-6180.0000	L,R	900KF2D	Tx	77.80	54.30	28CBAND		TT&C
60)	5925.0000-6425.0000	H,V,L,R	18M0F8F	Tx	83.00	56.50	28CBAND		ANALOG VIDEO
61)	5925.0000-6425.0000	H,V,L,R	36M0F8F	Tx	83.50	56.50	28CBAND		ANALOG VIDEO
62)	5925.0000-6425.0000	H,V,L,R	36M0G7F	Tx	87.00	47.50	28CBAND		DIGITAL VIDEO
63)	5925.0000-6425.0000	H,V,L,R	4M00G7F	Tx	84.30	54.30	28CBAND		DIGITAL VIDEO
64)	5925.0000-6425.0000	H,V,L,R	21K9G7W	Tx	61.70	54.30	28CBAND		DIGITAL VOICE, AND DATA
65)	5925.0000-6425.0000	H,V,L,R	72M0G7W	Tx	87.00	44.45	28CBAND		DIGITAL VOICE, AND DATA
66)	4192.5000-4200.0000	L,R	12K0G1D	Rx			28CBAND		DIGITAL DATA
67)	4192.5000-4200.0000	L,R	12K0G3E	Rx			28CBAND		DIGITAL DATA
68)	4192.5000-4200.0000	L,R	3K00G1D	Rx			28CBAND		DIGITAL DATA
69)	4192.5000-4200.0000	L,R	4K00G1D	Rx			28CBAND		DIGITAL DATA
70)	4192.5000-4200.0000	L,R	4K00G3E	Rx			28CBAND		DIGITAL DATA
71)	4192.5000-4200.0000	L,R	7K50G3E	Rx			28CBAND		DIGITAL CARRIER
72)	4188.0000-4189.0000	L,R	1K00G1D	Rx			28CBAND		TT&C
73)	3945.0000-3955.0000	L,R	1K00G1D	Rx		0.00	28CBAND		TT&C



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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
74)	3700.0000-4200.0000	H, V, L, R	18M0F8F	Rx			28CBAND		ANALOG VIDEO
75)	3700.0000-4200.0000	H, V, L, R	36M0F8F	Rx			28CBAND		DIGITAL DATA
76)	3700.0000-4200.0000	H, V, L, R	36M0G7F	Rx			28CBAND		DIGITAL VIDEO
77)	3700.0000-4200.0000	H, V, L, R	4M00G7F	Rx			28CBAND		DIGITAL VIDEO
78)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			28CBAND		DIGITAL VOICE, AND DATA
79)	3700.0000-4200.0000	H, V, L, R	21K9G7W	Rx		0.00	28CBAND		DIGITAL VOICE, AND DATA
80)	3600.0000-3629.0000	L, R	100KG1X	Rx			28CBAND		DIGITAL DATA
81)	3600.0000-3629.0000	L, R	10K0G1W	Rx			28CBAND		DIGITAL DATA
82)	3600.0000-3629.0000	L, R	17K5G1D	Rx			28CBAND		DIGITAL DATA
83)	3600.0000-3629.0000	L, R	20K0G1E	Rx			28CBAND		DIGITAL DATA
84)	3600.0000-3629.0000	L, R	2K50F1D	Rx			28CBAND		DIGITAL DATA
85)	3600.0000-3629.0000	L, R	2K50G1D	Rx			28CBAND		DIGITAL DATA
86)	3600.0000-3629.0000	L, R	45K0G7D	Rx			28CBAND		DIGITAL DATA
87)	3600.0000-3629.0000	L, R	5K00G1D	Rx			28CBAND		DIGITAL DATA
88)	3600.0000-3629.0000	L, R	5K00G1E	Rx			28CBAND		DIGITAL DATA
89)	3600.0000-3629.0000	L, R	5K00G1W	Rx			28CBAND		DIGITAL DATA
90)	3600.0000-3629.0000	H, V, L, R	60K0D1W	Rx			28CBAND		DIGITAL DATA
91)	3600.0000-3629.0000	L, R	7K50G1E	Rx			28CBAND		DIGITAL DATA
92)	3600.0000-3629.0000	L, R	7K50G1W	Rx			28CBAND		DIGITAL DATA
93)	3600.0000-3629.0000	L	2M20G1D	Rx			28CBAND		DIGITAL CARRIER
94)	3600.0000-3629.0000	L, R	20K0G1X	Rx		0.00	28CBAND		DIGITAL DATA
95)	3600.0000-3629.0000	L, R	7K50G1D	Rx		0.00	28CBAND		DIGITAL DATA
96)	3600.0000-3623.0000	L, R	12K0G1D	Rx			28CBAND		DIGITAL DATA
97)	3600.0000-3623.0000	L, R	12K0G3E	Rx			28CBAND		DIGITAL DATA



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98)	3600.0000-3623.0000	L, R	3K00G1D	Rx			28CBAND		DIGITAL DATA
99)	3600.0000-3623.0000	L, R	4K00G1D	Rx			28CBAND		DIGITAL DATA
100)	3600.0000-3623.0000	L, R	4K00G3E	Rx			28CBAND		DIGITAL DATA
101)	3600.0000-3623.0000	L, R	7K50G3E	Rx			28CBAND		DIGITAL DATA
102)	3600.0000-3623.0000	L, R	NON	Rx			28CBAND		COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
103)	3600.0000-3623.0000	L, R	300KFXN	Rx			28CBAND		COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
104)	1626.5000-1660.5000	R	NON	Tx	31.00	31.00	28LBAND		PILOT
105)	1626.5000-1660.5000	R	24K0F3F	Tx	36.00	33.70	28LBAND		ANALOG CARRIER
106)	1626.5000-1660.5000	R	10K5G2F	Tx	36.00	31.80	28LBAND		DIGITAL CARRIER
107)	1626.5000-1660.5000	R	1K20G1D	Tx	36.00	36.00	28LBAND		DIGITAL CARRIER
108)	1626.5000-1660.5000	R	1K20G2D	Tx	36.00	36.00	28LBAND		DIGITAL CARRIER
109)	1626.5000-1660.5000	R	2K40G2D	Tx	36.00	36.00	28LBAND		DIGITAL CARRIER
110)	1626.5000-1660.5000	R	600HG1D	Tx	36.00	36.00	28LBAND		DIGITAL CARRIER
111)	1626.5000-1660.5000	R	600HG2D	Tx	36.00	36.00	28LBAND		DIGITAL CARRIER
112)	1626.0000-1660.5000	R	300KFXN	Tx	70.00	51.25	28LBAND		COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
113)	1574.4000-1576.6000	R	10K5G2F	Rx			28LBAND		DIGITAL CARRIER
114)	1574.4000-1576.6000	R	1K20G1D	Rx			28LBAND		DIGITAL CARRIER
115)	1574.4000-1576.6000	R	1K20G2D	Rx			28LBAND		DIGITAL CARRIER
116)	1574.4000-1576.6000	R	2K40G2D	Rx			28LBAND		DIGITAL CARRIER
117)	1574.4000-1576.6000	R	600HG1D	Rx			28LBAND		DIGITAL CARRIER
118)	1574.4000-1576.6000	R	600HG2D	Rx		0.00	28LBAND		DIGITAL CARRIER



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119)	1530.0000-1548.0000	R	NON	Rx			28LBAND		COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
120)	1530.0000-1548.0000	R	600KFXN	Rx			28LBAND		COMMUNICATIONS SYSTEMS MONITORING AND TEST SIGNALS
121)	1525.0000-1559.0000	R	10K5G2F	Rx			28LBAND		DIGITAL CARRIER
122)	1525.0000-1559.0000	R	1K20G1D	Rx			28LBAND		DIGITAL CARRIER
123)	1525.0000-1559.0000	R	1K20G2D	Rx			28LBAND		DIGITAL CARRIER
124)	1525.0000-1559.0000	R	2K40G2D	Rx			28LBAND		DIGITAL CARRIER
125)	1525.0000-1559.0000	R	600HG1D	Rx			28LBAND		DIGITAL CARRIER
126)	1525.0000-1559.0000	R	600HG2D	Rx			28LBAND		DIGITAL CARRIER

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)	1530.0000-1559.0000	2.0W	-144.0W	05.2	-05.7	102.6	-256.9		2.2M
2)	1626.5000-1660.5000	2.0W	-144.0W	05.2	-05.7	102.6	-256.9		2.2M
3)	1574.0000-1576.6000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		28LBAND
4)	1626.5000-1660.5000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		28LBAND
5)	1525.0000-1559.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		28LBAND
6)	3600.0000-3629.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		28CBAND
7)	3600.0000-3629.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		28CBAND
8)	3945.0000-3955.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		28CBAND
9)	4188.0000-4189.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	0	28CBAND
10)	5925.0000-6425.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	24.1	28CBAND
11)	6170.0000-6180.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	11.4	28CBAND
12)	6416.0000-6418.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	11.4	28CBAND
13)	6424.0000-6454.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	26.4	28CBAND



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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		
14)	6425.0000-6443.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	11.4	28CBAND
15)	3700.0000-4200.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	0	28CBAND
16)	6417.5000-6454.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	11.4	28CBAND
17)	6454.4000-6456.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	11.4	28CBAND
18)	4192.5000-4200.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		28CBAND

D) Points of Communications

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

- 1) 2.2M to INMARSAT Ltd.-2 satellite(s) @ 17 W.L. in AOR-EAST (United Kingdom-licensed) (Non-U.S.-licensed)
- 2) 2.2M to INMARSAT Ltd.-2 satellite(s) @ 98 W.L. in AOR-WEST (United Kingdom-licensed) (Non-U.S.-licensed)
- 3) 2.2M to INMARSAT Ltd.-3 satellite(s) @ 15.5 W.L. in AOR-E (United Kingdom-licensed) (Non-U.S.-licensed)
- 4) 2.2M to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band
- 5) 28LBAND to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band
- 6) 28CBAND to INMARSAT 3F2 satellite @15.5 degrees W.L. (United Kingdom-licensed)
- 7) 28CBAND to INMARSAT 4F3 satellite(s) @ 97.65 degrees W.L. (United Kingdom-licensed)
- 8) 28CBAND to Permitted Space Station List
- 9) 28CBAND to INMARSAT 3F4 satellite (S2783) @ 54 W.L. (United Kingdom-licensed)

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)
2.2M	2.2M	1	2.2	SEATEL	8885	36.6	4.6 AGL/ 41.1 AMSL	
Max Gains(s):		29.2 dBi @	1.6400 GHz	28.9 dBi @	1.5400 GHz			
Maximum total input power at antenna flange (Watts) =						40.00		
Maximum aggregate output EIRP for all carriers (dBW) =						45.20		
28CBAND	28CBAND	1	14.2	TIW	14.2 DUAL	36.6	16.8 AGL/ 53.4 AMSL	
Max Gains(s):		54.0 dBi @	3.6000 GHz	57.0 dBi @	6.4250 GHz			
Maximum total input power at antenna flange (Watts) =						1,000.00		
Maximum aggregate output EIRP for all carriers (dBW) =						87.00		



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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)
28LBAND	28LBAND	1	14.2	TIW	14.2M DUAL	36.6	16.9 AGL/ 53.4 AMSL	
Max Gains(s):		43.7 dBi @	1.0000 GHz	46.5 dBi @	1.6400 GHz			
Maximum total input power at antenna flange (Watts) =					450.00			
Maximum aggregate output EIRP for all carriers (dBW) =					73.00			

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:

- 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.
- 2627 --- All services are interconnected to the Public Switched Network.
- 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
- 3465 --- This authorization is subject to the policies adopted in the Report and Order, "Amendment of the Commission's Regulatory Policies to allow Non-US-Licensed Space Stations to provide Domestic and International Satellite Services in the United States," IB Docket 96-111, FCC 97-399 (Released November 26, 1997). (DISCO II)
- 3848 --- The authorized frequency band(s) has (have) been cleared with the National Telecommunications and Information Administration.



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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:

- 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.
- 5011 --- The Licensee(s) shall maintain on file with the Commission a current list or plan of the precise frequencies in use at the station, specifying for each frequency the RF center frequency, polarization, emission designator, nominal EIRP (in dBW) and maximum EIRP density (in dBW/4kHz). This list or plan may be submitted either on a station-by-station basis or on a system-wide basis and shall be updated within seven (7) days of any changes in frequency usage at this station. The Licensee(s) need not notify the Commission of temporary usage of frequencies for periods of less than seven (7) days. However, the Licensee(s) shall maintain accurate station records of the times and particulars of such temporary frequency usage.
- 5012 --- The authority granted here is limited to the operation of the facilities described above and does not include any authority to install and operate channelizing equipment or any other authority under Section 214 of the Communications Act of 1934, as amended, to establish channels of communications.
- 5017 --- Operation of this station is governed by the terms, conditions and limitations in Part 25 of the Commission's Rules and Regulations and the following additional conditions: 1. This license shall not vest in the Licensee(s) any right to operate the station or any right in the use of the frequencies designated in the license beyond its term or in any other manner than authorized in the license; 2. Neither the license nor the right granted under it shall be assigned or otherwise transferred in violation of the Commission's Rules and Regulations issued under it; and 3. This station is subject to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended.
- 5018 --- This license shall be forfeited automatically if this station is not ready for operation within the time specified unless, prior to the expiration date of this license, the Commission receives an Application for Additional Time to Construct a Radio Station (FCC Form 701) filed by the Licensee(s) showing good cause why the Licensee(s) could not complete construction on time.
- 5058 --- All operations shall be conducted on a common carrier basis and shall comply with the Commission's decisions in CC Docket No. 87-75 and General Docket 84-1234.
- 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.
- 5202 --- Use of this facility to provide international service on a common carrier basis will require appropriate authorization under Section 214 of the Communication Act of 1934, as amended.
- 5215 --- All operations shall be on a common carrier basis.
- 5630 --- International services shall be consistent with this emission designator, the underlying title III application(s) and the acquisition of any necessary Section 214 authority.



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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:

5779 --- 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 construction of the facility as authorized has been completed, 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.

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

5814 --- This authorization is issued pursuant to and subject to the terms and conditions in the Commission's Order released July 8, 1996, DA 96-1079, and Erratum released July 9, 1996.

5830 --- This authorization is subject to the conditions and terms set forth in the Commission's Memorandum Opinion, Order and Authorization, FCC 01-272, released October 9, 2001 (INMARSAT Ltd. Order).



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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.