



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Comsat, Inc.

Call Sign: WA28

Authorization Type: Renewal of License

File Number: SES-RWL-20180321-00251

Common Carrier

Grant date: 03/23/2018

Expiration Date: 04/08/2033

Nature of Service: Fixed Satellite Service
 Nature of Service: Feeder Link for Mobile Satellite Service
 Nature of Service: Mobile Satellite Service

Class of Station: Fixed Earth Stations



A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	2120 RIVER ROAD (12.8M.) SOUTHBURY, NEW HAVEN, CT 06488	41°27'5.0"N	73°17'21.0"W	36.6	27
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
2)	21CNORM	2120 RIVER ROAD (12.8M.)-C-BAND SOUTHBURY, NEW HAVEN, CT 06488	41°27'4.1"N	73°17'20.9"W	35.7	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
3)	21CTTC/HUB	2120 RIVER ROAD (12.8M.)-C-BAND/L-BAND SOUTHBURY, NEW HAVEN, CT 06488	41°27'4.1"N	73°17'20.9"W	35.7	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
4)	21LBAND	2120 RIVER ROAD (12.8M.)-L-BAND SOUTHBURY, NEW HAVEN, CT 06488	41°27'4.1"N	73°17'21.0"W	35.7	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
5)	23ACNOR	2120 RIVER ROAD (10.4M.)-C-BAND SOUTHBURY, NEW HAVEN, CT 06488	41°27'4.5"N	73°17'21.0"W	35.7	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
6)	23ACTTC	2120 RIVER ROAD (10.4M.)-C-BAND SOUTHBURY, NEW HAVEN, CT 06488	41°27'4.5"N	73°17'21.5"W	35.7	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						



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A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
7)	23BLBAND	2120 RIVER ROAD (1.8M.)-BL-BAND SOUTHURY, NEW HAVEN, CT 06488	41°27'4.5"N	73°17'21.8"W	35.7	83	

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

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning April 8, 2018 (3 AM Eastern Standard Time) and ending April 8, 2033 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is 00/00/0000. Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	5925.0000-6425.0000	L,R	36M0F8W	Tx	86.50	59.50	21CTTC		ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
2)	6454.4000-6456.6000	L,R	2M20G1D	Tx	80.70	53.30	21CNORM		BPSK SPREAD SPECTRUM DATA (NAVIGATION)
3)	6425.0000-6454.0000	L,R	7K50G1W	Tx	58.40	55.70	21CNORM		DIGITAL DATA
4)	6425.0000-6454.0000	L,R	7K50G1E	Tx	62.20	59.50	21CNORM		DIGITAL DATA
5)	6425.0000-6454.0000	L,R	7K50G1D	Tx	59.10	56.40	21CNORM		DIGITAL DATA
6)	6425.0000-6454.0000	L,R	60K0D1W	Tx	65.90	54.10	21CNORM		DIGITAL DATA
7)	6425.0000-6454.0000	L,R	5K00G1W	Tx	51.90	50.90	21CNORM		DIGITAL DATA
8)	6425.0000-6454.0000	L,R	5K00G1E	Tx	51.90	50.90	21CNORM		DIGITAL DATA
9)	6425.0000-6454.0000	L,R	5K00G1D	Tx	61.80	60.80	21CNORM		DIGITAL DATA
10)	6425.0000-6454.0000	L,R	45K0G7D	Tx	66.00	55.50	21CNORM		DIGITAL DATA
11)	6425.0000-6454.0000	L,R	2K50G1D	Tx	65.70	65.70	21CNORM		DIGITAL DATA



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B) Particulars of Operations

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 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
12)	6425.0000-6454.0000	L,R	2K50F1D	Tx	58.80	58.80	21CNORM		DIGITAL DATA
13)	6425.0000-6454.0000	L,R	17K5G1D	Tx	61.40	55.00	21CNORM		DIGITAL DATA
14)	6425.0000-6454.0000	L,R	10K0G1X	Tx	61.20	57.20	21CNORM		DIGITAL DATA
15)	6425.0000-6454.0000	L,R	10K0G1W	Tx	59.70	55.70	21CNORM		DIGITAL DATA
16)	6425.0000-6454.0000	L,R	100KG1X	Tx	60.80	46.80	21CNORM		DIGITAL DATA
17)	6424.0000-6454.0000	L,R	34K0F3E	Tx	62.00	58.20	21CNORM		FM TELEPHONY COMPANDED AND UNCOMPANDED
18)	6424.0000-6454.0000	L,R	NON	Tx	62.00	62.00	21CNORM		UNMODULATED AFC PILOT (CLOSE LOOP)
19)	6424.0000-6454.0000	L,R	27K0F3W	Tx	62.00	59.20	21CNORM		FM9 ANALOG BROADCAST CARRIER
20)	6424.0000-6454.0000	L,R	400KG1F	Tx	62.00	42.00	21CNORM		QPSK, DIGITAL VIDEO/DATA
21)	6424.0000-6454.0000	L,R	40K0G1D	Tx	63.30	53.30	21CNORM		16 QAM DIGITAL TELEPHONY
22)	6424.0000-6454.0000	L,R	5K60G1E	Tx	54.80	53.30	21CNORM		QPSK, TELEPHONY
23)	6424.0000-6454.0000	L,R	24K0G1E	Tx	61.10	53.30	21CNORM		QPSK, TELEPHONY
24)	6424.0000-6454.0000	L,R	5K60G1W	Tx	54.80	53.30	21CNORM		QPSK, DATA/FAX
25)	6424.0000-6454.0000	L,R	2M20G1D	Tx	62.00	34.60	21CNORM		BPSK, DATA/TDM
26)	6424.0000-6454.0000	L,R	2K40G7D	Tx	51.10	51.10	21CNORM		BPSK, DATA/TDM
27)	6424.0000-6454.0000	L,R	2K40G1D	Tx	51.10	51.10	21CNORM		BPSK, DATA/TDM
28)	6424.0000-6454.0000	L,R	24K0G1W	Tx	61.10	53.30	21CNORM		QPSK, DATA/FAX
29)	6424.0000-6454.0000	L,R	132KG7D	Tx	62.00	46.80	21CNORM		BPSK, DATA/TDM
30)	5927.0000-5927.0000	L,R	NON	Tx	53.30	53.30	21CNORM		TT&C RANGING CARRIER
31)	3947.0000-3953.0000	L,R	131KG2D	Rx			21CNORM		PCM/PSK/BI-PHASE TRACKING BEACON
32)	3700.0000-4200.0000	L,R	36M0F8W	Rx			21CNORM		TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
33)	3600.0000-3629.0000	L,R	2M20G1D	Rx			21CNORM		BPSK SPREAD SPECTRUM DATA-NAVIGATION CLOSE LOOP



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 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
34)	3600.0000-3629.0000	L,R	NON	Rx			21CNORM		UNMODULATED AFC PILOT (CLOSE LOOP)
35)	3600.0000-3629.0000	L,R	40K0G1W	Rx			21CNORM		16 QAM, DIGITAL TELEPHONY
36)	3600.0000-3629.0000	L,R	400KG1F	Rx			21CNORM		QPSK, DIGITAL VIDEO/DATA
37)	3600.0000-3629.0000	L,R	5K60G1E	Rx			21CNORM		QPSK, TELEPHONY
38)	3600.0000-3629.0000	L,R	24K0G1E	Rx			21CNORM		QPSK, TELEPHONY
39)	3600.0000-3629.0000	L,R	5K60G1W	Rx			21CNORM		QPSK, DATA/FAX
40)	3600.0000-3629.0000	L,R	2K40G7D	Rx			21CNORM		BPSK, DATA/TDM
41)	3600.0000-3629.0000	L,R	24K0G1W	Rx			21CNORM		QPSK, DATA/FAX
42)	3600.0000-3629.0000	L,R	132KG7D	Rx			21CNORM		BPSK, DATA/TDM
43)	3600.0000-3629.0000	L,R	7K50G1W	Rx			21CNORM		DIGITAL DATA
44)	3600.0000-3629.0000	L,R	7K50G1E	Rx			21CNORM		DIGITAL DATA
45)	3600.0000-3629.0000	L,R	7K50G1D	Rx			21CNORM		DIGITAL DATA
46)	3600.0000-3629.0000	L,R	60K0D1W	Rx			21CNORM		DIGITAL DATA
47)	3600.0000-3629.0000	L,R	5K00G1W	Rx			21CNORM		DIGITAL DATA
48)	3600.0000-3629.0000	L,R	5K00G1E	Rx			21CNORM		DIGITAL DATA
49)	3600.0000-3629.0000	L,R	5K00G1D	Rx			21CNORM		DIGITAL DATA
50)	3600.0000-3629.0000	L,R	45K0G7D	Rx			21CNORM		DIGITAL DATA
51)	3600.0000-3629.0000	L,R	2K50G1D	Rx			21CNORM		DIGITAL DATA
52)	3600.0000-3629.0000	L,R	2K50F1D	Rx			21CNORM		DIGITAL DATA
53)	3600.0000-3629.0000	L,R	20K0G1X	Rx			21CNORM		DIGITAL DATA
54)	3600.0000-3629.0000	L,R	20K0G1E	Rx			21CNORM		DIGITAL DATA
55)	3600.0000-3629.0000	L,R	17K5G1D	Rx			21CNORM		DIGITAL DATA
56)	3600.0000-3629.0000	L,R	10K0G1W	Rx			21CNORM		DIGITAL DATA
57)	3600.0000-3629.0000	L,R	100KG1X	Rx			21CNORM		DIGITAL DATA



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The General Provision 1010 applies to all receiving 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
58)	3600.0000-3629.0000	L,R	2M20G1D	Rx			21CNORM		BPSK, DATA
59)	3600.0000-3629.0000	L,R	2K40G1D	Rx			21CNORM		BPSK, DATA
60)	6454.4000-6456.6000	R	600HG1D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
61)	6454.4000-6456.6000	R	600HG2D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
62)	6454.4000-6456.6000	R	1K20G2D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
63)	6454.4000-6456.6000	R	2K40G2D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
64)	6454.4000-6456.6000	R	10K5G2F	Tx	44.50	40.30	12.8M.		DIGITAL CARRIER
65)	6454.4000-6456.6000	R	2M20G1D	Tx	78.00	50.60	12.8M.		DIGITAL CARRIER
66)	6454.4000-6456.6000	R	2M20G1D	Tx	82.30	54.90	12.8M.		DIGITAL CARRIER
67)	6425.0000-6454.0000	R	1K20G1D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
68)	6425.0000-6454.0000	R	600HG1D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
69)	6425.0000-6454.0000	R	600HG2D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
70)	6425.0000-6454.0000	R	1K20G2D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
71)	6425.0000-6454.0000	R	10K5G2F	Tx	44.50	40.30	12.8M.		DIGITAL CARRIER
72)	6425.0000-6454.0000	R	2M20G1D	Tx	78.00	50.60	12.8M.		DIGITAL CARRIER
73)	6425.0000-6454.0000	R	2M20G1D	Tx	82.30	54.90	12.8M.		DIGITAL CARRIER
74)	6425.0000-6454.0000	L,R	100KG1X	Tx	60.80	46.80	12.8M.		DIGITAL DATA
75)	6425.0000-6454.0000	L,R	10K0G1W	Tx	59.70	55.70	12.8M.		DIGITAL DATA
76)	6425.0000-6454.0000	L,R	10K0G1X	Tx	61.20	57.20	12.8M.		DIGITAL DATA
77)	6425.0000-6454.0000	L,R	17K5G1D	Tx	61.40	55.00	12.8M.		DIGITAL DATA
78)	6425.0000-6454.0000	L,R	20K0G1E	Tx	56.80	49.80	12.8M.		DIGITAL DATA
79)	6425.0000-6454.0000	L,R	2K50F1D	Tx	58.80	58.80	12.8M.		DIGITAL DATA
80)	6425.0000-6454.0000	L,R	2K50G1D	Tx	65.70	65.70	12.8M.		DIGITAL DATA
81)	6425.0000-6454.0000	L,R	45K0G7D	Tx	66.00	55.50	12.8M.		DIGITAL DATA



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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
82)	6425.0000-6454.0000	L,R	5K00G1D	Tx	61.80	60.80	12.8M.		DIGITAL DATA
83)	6425.0000-6454.0000	L,R	5K00G1E	Tx	51.90	50.90	12.8M.		DIGITAL DATA
84)	6425.0000-6454.0000	L,R	5K00G1W	Tx	51.90	50.90	12.8M.		DIGITAL DATA
85)	6425.0000-6454.0000	L,R	60K0D1W	Tx	65.90	54.10	12.8M.		DIGITAL DATA
86)	6425.0000-6454.0000	L,R	7K50G1D	Tx	59.10	56.40	12.8M.		DIGITAL DATA
87)	6425.0000-6454.0000	L,R	7K50G1W	Tx	58.40	55.70	12.8M.		DIGITAL DATA
88)	6425.0000-6443.0000	R	6K00G1D	Tx			12.8M.		Feeder link for INMARSAT-B & M
89)	6425.0000-6443.0000	R	12K0G3E	Tx			12.8M.		Feeder link for INMARSAT-B & M
90)	6425.0000-6443.0000	R	12K0G1D	Tx			12.8M.		Feeder link for INMARSAT-B & M
91)	6425.0000-6443.0000	R	7K50G3E	Tx			12.8M.		Feeder link for INMARSAT-B & M
92)	6425.0000-6443.0000	R	4K00G3E	Tx			12.8M.		Feeder link for INMARSAT-B & M
93)	6425.0000-6443.0000	R	4K00G1D	Tx			12.8M.		Feeder link for INMARSAT-B & M
94)	6420.0000-6424.0000	R	6K00G1D	Tx			12.8M.		Feeder link for INMARSAT-B & M
95)	6420.0000-6424.0000	R	12K0G3E	Tx			12.8M.		Feeder link for INMARSAT-B & M
96)	6420.0000-6424.0000	R	12K0G1D	Tx			12.8M.		Feeder link for INMARSAT-B & M
97)	6420.0000-6424.0000	R	7K50G3E	Tx			12.8M.		Feeder link for INMARSAT-B & M
98)	6420.0000-6424.0000	R	4K00G3E	Tx			12.8M.		Feeder link for INMARSAT-B & M
99)	6420.0000-6424.0000	R	4K00G1D	Tx			12.8M.		Feeder link for INMARSAT-B & M
100)	6417.5000-6443.0000	R	600HG1D	Tx	65.00	65.00	12.8M.		Aeronautical Digital transmit channels
101)	6417.5000-6443.0000	R	1K20G1D	Tx	65.00	65.00	12.8M.		Aeronautical Digital transmit channels



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102)	6417.5000-6443.0000	R	2K40G1D	Tx	65.00	65.00	12.8M.		Aeronautical Digital transmit channels
103)	6417.5000-6443.0000	R	10K5G1E	Tx	69.20	65.00	12.8M.		Aeronautical Digital transmit channels
104)	6417.5000-6440.0000	R	30K0F3E	Tx	77.00	73.75	12.8M.		STD A VOICE
105)	6417.5000-6440.0000	R	1K20G1D	Tx	77.00	77.00	12.8M.		STD A Telex
106)	6417.5000-6440.0000	R	600HG1D	Tx	77.00	77.00	12.8M.		STD-C Digital
107)	6417.5000-6440.0000	R	1K20G1D	Tx	77.00	77.00	12.8M.		STD-C Digital
108)	6417.5000-6440.0000	R	NON	Tx	77.00	77.00	12.8M.		PILOT
109)	4195.0000-4199.0000	L	3K00G1D	Rx			12.8M.		Feeder link for INMARSAT-B & M
110)	4195.0000-4199.0000	L	12K0G3E	Rx			12.8M.		Feeder link for INMARSAT-B & M
111)	4195.0000-4199.0000	L	12K0G1D	Rx			12.8M.		Feeder link for INMARSAT-B & M
112)	4195.0000-4199.0000	L	7K50G3E	Rx			12.8M.		Feeder link for INMARSAT-B & M
113)	4195.0000-4199.0000	L	4K00G3E	Rx			12.8M.		Feeder link for INMARSAT-B & M
114)	4195.0000-4199.0000	L	4K00G1D	Rx			12.8M.		Feeder link for INMARSAT-B & M
115)	3600.0000-3629.0000	L	2M20G1D	Rx	0.00		12.8M.		DIGITAL CARRIER
116)	3600.0000-3629.0000	L,R	100KG1X	Rx			12.8M.		DIGITAL DATA
117)	3600.0000-3629.0000	L,R	10K0G1W	Rx			12.8M.		DIGITAL DATA
118)	3600.0000-3629.0000	L,R	17K5G1D	Rx			12.8M.		DIGITAL DATA
119)	3600.0000-3629.0000	L,R	20K0G1E	Rx			12.8M.		DIGITAL DATA
120)	3600.0000-3629.0000	L,R	20K0G1X	Rx			12.8M.		DIGITAL DATA
121)	3600.0000-3629.0000	L,R	2K50F1D	Rx			12.8M.		DIGITAL DATA
122)	3600.0000-3629.0000	L,R	2K50G1D	Rx			12.8M.		DIGITAL DATA



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123)	3600.0000-3629.0000	L,R	45K0G7D	Rx			12.8M.		DIGITAL DATA
124)	3600.0000-3629.0000	L,R	5K00G1D	Rx			12.8M.		DIGITAL DATA
125)	3600.0000-3629.0000	L,R	5K00G1E	Rx			12.8M.		DIGITAL DATA
126)	3600.0000-3629.0000	L,R	5K00G1W	Rx			12.8M.		DIGITAL DATA
127)	3600.0000-3629.0000	L,R	60K0D1W	Rx			12.8M.		DIGITAL DATA
128)	3600.0000-3629.0000	L,R	7K50G1E	Rx			12.8M.		DIGITAL DATA
129)	3600.0000-3629.0000	L,R	7K50G1W	Rx			12.8M.		DIGITAL DATA
130)	3600.0000-3623.0000	L	3K00G1D	Rx			12.8M.		Feeder link for INMARSAT-B & M
131)	3600.0000-3623.0000	L	12K0G3E	Rx			12.8M.		Feeder link for INMARSAT-B & M
132)	3600.0000-3623.0000	L	120KG1D	Rx			12.8M.		Feeder link for INMARSAT-B & M
133)	3600.0000-3623.0000	L	7K50G3E	Rx			12.8M.		Feeder link for INMARSAT-B & M
134)	3600.0000-3623.0000	L	4K00G3E	Rx			12.8M.		Feeder link for INMARSAT-B & M
135)	3600.0000-3623.0000	L	4K00G1D	Rx			12.8M.		Feeder link for INMARSAT-B & M
136)	3600.0000-3623.0000	L	10K5G1E	Rx			12.8M.		AERO
137)	3600.0000-3623.0000	L	1K20G1D	Rx			12.8M.		AERO
138)	3600.0000-3623.0000	L	600HG1D	Rx			12.8M.		AERO
139)	3600.0000-3623.0000	L	2K40G1D	Rx			12.8M.		AERO
140)	3600.0000-3620.0000	L	30K0F3E	Rx			12.8M.		STD A VOICE
141)	3600.0000-3620.0000	L	4K80G1D	Rx			12.8M.		STD A TELEX
142)	3600.0000-3620.0000	L	NON	Rx			12.8M.		PILOT
143)	3600.0000-3620.0000	L	1K20G1D	Rx			12.8M.		STD-C
144)	3600.0000-3620.0000	L	600HG1D	Rx			12.8M.		STD-C



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RADIO STATION AUTHORIZATION

Name: Comsat, Inc.

Call Sign: WA28

Authorization Type: Renewal of License

File Number: SES-RWL-20180321-00251

Common Carrier

Grant date: 03/23/2018

Expiration Date: 04/08/2033

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
145)	1626.5000-1660.5000	R	24K0F3E	Tx	36.00	33.70	12.8M.		ANALOG CARRIER
146)	1626.5000-1660.5000	R	NON	Tx	31.00	31.00	12.8M.		PILOT
147)	1626.5000-1660.5000	R	24K0G2D	Tx	36.00	36.00	12.8M.		DIGITAL CARRIER
148)	1626.5000-1660.5000	R	600HG1D	Tx	36.00	36.00	12.8M.		DIGITAL CARRIER
149)	1626.5000-1660.5000	R	600HG2D	Tx	36.00	36.00	12.8M.		DIGITAL CARRIER
150)	1626.5000-1660.5000	R	1K20G2D	Tx	36.00	36.00	12.8M.		DIGITAL CARRIER
151)	1626.5000-1660.5000	R	10K5G2F	Tx	36.00	31.80	12.8M.		DIGITAL CARRIER
152)	1626.5000-1649.5000	R	600HG1D	Tx	15.00	15.00	12.8M.		AERO
153)	1626.5000-1649.5000	R	1K20G1D	Tx	18.00	18.00	12.8M.		AERO
154)	1626.5000-1649.5000	R	2K40G1D	Tx	21.00	21.00	12.8M.		AERO
155)	1626.5000-1649.5000	R	10K5G1E	Tx	31.20	27.00	12.8M.		AERO
156)	1626.5000-1647.5000	R	30K0F3E	Tx	37.00	33.70	12.8M.		STD A VOICE
157)	1626.5000-1647.5000	R	NON	Tx	37.00	37.00	12.8M.		PILOT
158)	1626.5000-1647.5000	R	1K20G1D	Tx	16.00	16.00	12.8M.		STD-C
159)	1626.5000-1647.5000	R	600HG1D	Tx	16.00	16.00	12.8M.		STD-C
160)	1626.5000-1647.5000	R	4K80G1D	Tx	37.00	37.00	12.8M.		STD A TELEX
161)	1574.4000-1576.6000	R	2K40G2D	Rx			12.8M.		DIGITAL CARRIER
162)	1574.4000-1576.6000	R	1K20G1D	Rx			12.8M.		DIGITAL CARRIER
163)	1574.4000-1576.6000	R	600HG1D	Rx			12.8M.		DIGITAL CARRIER
164)	1574.4000-1576.6000	R	600HG2D	Rx			12.8M.		DIGITAL CARRIER
165)	1574.4000-1576.6000	R	1K20G2D	Rx			12.8M.		DIGITAL CARRIER
166)	1574.4000-1576.6000	R	10K5G2F	Rx			12.8M.		DIGITAL CARRIER
167)	1530.0000-1548.0000	R	10K5G1E	Rx			12.8M.		AERO
168)	1530.0000-1548.0000	R	2K40G1D	Rx			12.8M.		AERO



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Common Carrier

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B) Particulars of Operations

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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
169)	1530.0000-1548.0000	R	1K20G1D	Rx			12.8M.		AERO
170)	1530.0000-1548.0000	R	600HG1D	Rx			12.8M.		AERO
171)	1530.0000-1545.0000	L	30K0F3E	Rx			12.8M.		STD A VOICE
172)	1530.0000-1545.0000	L	NON	Rx			12.8M.		PILOT
173)	1530.0000-1545.0000	L	1K20G1D	Rx			12.8M.		STD A TELEX
174)	1530.0000-1545.0000	L	1K20G1D	Rx			12.8M.		STD-C
175)	1530.0000-1545.0000	L	600HG1D	Rx			12.8M.		STD-C
176)	1525.0000-1559.0000	R	2K40G2D	Rx	0.00		12.8M.		DIGITAL CARRIER
177)	1525.0000-1559.0000	R	1K20G1D	Rx			12.8M.		DIGITAL CARRIER
178)	1525.0000-1559.0000	R	600HG1D	Rx			12.8M.		DIGITAL CARRIER
179)	1525.0000-1559.0000	R	600HG2D	Rx			12.8M.		DIGITAL CARRIER
180)	1525.0000-1559.0000	R	1K20G2D	Rx			12.8M.		DIGITAL CARRIER
181)	1525.0000-1559.0000	R	10K5G2F	Rx			12.8M.		DIGITAL CARRIER
182)	1626.5000-1660.5000	L,R	34K0F3E	Tx	36.00	32.20	21LBAND		TEST FM, TELEPHONY COMPANDED OR UNCOMPANDED
183)	1626.5000-1660.5000	L,R	NON	Tx	40.50	40.50	21LBAND		UNMODULATED AFC PILOT (CLOSE LOOP)
184)	1626.5000-1660.5000	L,R	400KG1F	Tx	36.00	16.00	21LBAND		TEST QPSK DIGITAL VIDEO/DATA
185)	1626.5000-1660.5000	L,R	5K60G1E	Tx	36.00	34.50	21LBAND		TEST QPSK, TELEPHONY
186)	1626.5000-1660.5000	L,R	2K40G7D-	Tx	36.00	36.00	21LBAND		TEST BPSK, DATA/TDM
187)	1626.5000-1660.5000	L,R	24K0G1E	Tx	36.00	28.20	21LBAND		TEST QPSK, TELEPHONY
188)	1626.5000-1660.5000	L,R	5K60G1W	Tx	36.00	34.50	21LBAND		TEST QPSK, DATA/FAX
189)	1626.5000-1660.5000	L,R	2K40G1W	Tx	36.00	36.00	21LBAND		TEST QPSK, DATA/FAX
190)	1626.5000-1660.5000	L,R	132KG7D	Tx	36.00	20.80	21LBAND		TEST BPSK, DATA/TDM
191)	1626.5000-1660.5000	L,R	2M20G1D	Tx	36.00	8.60	21LBAND		TEST BPSK, DATA



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Common Carrier

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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
192)	1626.5000-1660.5000	L,R	2K40G1D	Tx	36.00	36.00	21LBAND		TEST BPSK, DATA
193)	1574.4000-1576.6000	L,R	2M20G1D	Rx			21LBAND		TEST BPSK SPREAD SPECTRUM DATA- CLOSE LOOP
194)	1525.0000-1559.0000	L,R	34K0F3E	Rx			21LBAND		TEST FM, TELEPHONY COMPANDED OR UNCOMPANDED
195)	1525.0000-1559.0000	L,R	2M20G1D	Rx			21LBAND		TEST BPSK SPREAD SPECTRUM DATA- CLOSE LOOP
196)	1525.0000-1559.0000	L,R	NON	Rx			21LBAND		UNMODULATED AFC PILOT (CLOSE LOOP)
197)	1525.0000-1559.0000	L,R	40K0G1W	Rx			21LBAND		TEST 16 QAM DIGITAL TELEPHONY
198)	1525.0000-1559.0000	L,R	400KG1F	Rx			21LBAND		TEST QPSK DIGITAL VIDEO/DATA
199)	1525.0000-1559.0000	L,R	5K60G1E	Rx			21LBAND		TEST QPSK, TELEPHONY
200)	1525.0000-1559.0000	L,R	24K0G1E	Rx			21LBAND		TEST QPSK, TELEPHONY
201)	1525.0000-1559.0000	L,R	5K60G1W	Rx			21LBAND		TEST QPSK, DATA/FAX
202)	1525.0000-1559.0000	L,R	2K40G7D	Rx			21LBAND		TEST BPSK, DATA/TDM
203)	1525.0000-1559.0000	L,R	2K40G1W	Rx			21LBAND		TEST QPSK, DATA/FAX
204)	1525.0000-1559.0000	L,R	2M20G1D	Rx			21LBAND		TEST BPSK, DATA
205)	1525.0000-1559.0000	L,R	2K40G1D	Rx			21LBAND		TEST BPSK, DATA
206)	5925.0000-6425.0000	L,R	36M0F8W	Tx	86.50	59.50	23ACTTC		TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
207)	6454.4000-6456.6000	L,R	2M20G1D	Tx	73.50	46.10	23ACNOR		BPSK SPREAD SPECTRUM DATA (NAVIGATION)
208)	6425.0000-6454.0000	L,R	7K50G1W	Tx	58.40	55.70	23ACNOR		DIGITAL DATA
209)	6425.0000-6454.0000	L,R	7K50G1E	Tx	62.20	59.50	23ACNOR		DIGITAL DATA
210)	6425.0000-6454.0000	L,R	7K50G1D	Tx	59.10	56.40	23ACNOR		DIGITAL DATA
211)	6425.0000-6454.0000	L,R	60K0D1W	Tx	65.90	54.10	23ACNOR		DIGITAL DATA
212)	6425.0000-6454.0000	L,R	5K00G1W	Tx	51.90	50.90	23ACNOR		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
213)	6425.0000-6454.0000	L,R	5K00G1E	Tx	51.90	50.90	23ACNOR		DIGITAL DATA
214)	6425.0000-6454.0000	L,R	5K00G1D	Tx	61.80	60.80	23ACNOR		DIGITAL DATA
215)	6425.0000-6454.0000	L,R	45K0G7D	Tx	66.00	55.50	23ACNOR		DIGITAL DATA
216)	6425.0000-6454.0000	L,R	2K50G1D	Tx	65.70	65.70	23ACNOR		DIGITAL DATA
217)	6425.0000-6454.0000	L,R	2K50F1D	Tx	58.80	58.80	23ACNOR		DIGITAL DATA
218)	6425.0000-6454.0000	L,R	20K0G1E	Tx	56.80	49.80	23ACNOR		DIGITAL DATA
219)	6425.0000-6454.0000	L,R	17K5G1D	Tx	61.40	55.00	23ACNOR		DIGITAL DATA
220)	6425.0000-6454.0000	L,R	10K0G1X	Tx	61.20	57.20	23ACNOR		DIGITAL DATA
221)	6425.0000-6454.0000	L,R	10K0G1W	Tx	59.70	55.70	23ACNOR		DIGITAL DATA
222)	6425.0000-6454.0000	L,R	100KG1X	Tx	60.80	46.80	23ACNOR		DIGITAL DATA
223)	6424.0000-6454.0000	L,R	34K0F3E	Tx	59.50	55.70	23ACNOR		FM TELEPHONY COMPANDED AND UNCOMPANDED
224)	6424.0000-6454.0000	L,R	27K0F3W	Tx	59.50	56.70	23ACNOR		FM9 ANALOG BROADCAST CARRIER
225)	6424.0000-6454.0000	L,R	400KG1F	Tx	59.50	39.50	23ACNOR		QPSK, DIGITAL VIDEO/DATA
226)	6424.0000-6454.0000	L,R	40K0G1W	Tx	60.80	50.80	23ACNOR		16 QAM DIGITAL TELEPHONY
227)	6424.0000-6454.0000	L,R	NON	Tx	59.50	59.50	23ACNOR		UNMODULATED AFC PILOT
228)	6424.0000-6454.0000	L,R	5K60G1E	Tx	53.20	50.80	23ACNOR		QPSK, TELEPHONY
229)	6424.0000-6454.0000	L,R	24K0G1E	Tx	58.60	50.80	23ACNOR		QPSK, TELEPHONY
230)	6424.0000-6454.0000	L,R	5K60G1W	Tx	52.30	50.80	23ACNOR		QPSK, DATA/FAX
231)	6424.0000-6454.0000	L,R	2K40G7D	Tx	48.60	48.60	23ACNOR		BPSK, DATA/TDM
232)	6424.0000-6454.0000	L,R	24K0G1W	Tx	58.60	50.80	23ACNOR		QPSK, DATA/FAX
233)	6424.0000-6454.0000	L,R	132KG7D	Tx	59.50	44.30	23ACNOR		BPSK, DATA/TDM
234)	6424.0000-6454.0000	L,R	2M20G1D	Tx	71.70	44.30	23ACNOR		BPSK, DATA
235)	6424.0000-6454.0000	L,R	2K40G1D	Tx	48.60	48.60	23ACNOR		BPSK, DATA



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Common Carrier

Grant date: 03/23/2018

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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
236)	5927.0000-5927.0000	L,R	NON	Tx	50.80	50.80	23ACNOR		TT&C RANGING CARRIER
237)	3700.0000-4200.0000	L,R	36M0F8W	Rx			23ACNOR		TEST ANALOG CARRIER TO MONITOR TRANSPONDER PERFORMANCE
238)	3600.0000-3629.0000	L,R	34K0F3E	Rx			23ACNOR		FM TELEPHONY COMPANDED AND UNCOMPANDED
239)	3600.0000-3629.0000	L,R	2M20G1D	Rx			23ACNOR		BPSK SPREAD SPECTRUM DATA (NAVIGATION)
240)	3600.0000-3629.0000	L,R	400KG1F	Rx			23ACNOR		QPSK, DIGITAL VIDEO/DATA
241)	3600.0000-3629.0000	L,R	40K0G1W	Rx			23ACNOR		16 QAM DIGITAL TELEPHONY
242)	3600.0000-3629.0000	L,R	NON	Rx			23ACNOR		UNMODULATED AFC PILOT
243)	3600.0000-3629.0000	L,R	5K60G1E	Rx			23ACNOR		QPSK, TELEPHONY
244)	3600.0000-3629.0000	L,R	24K0G1E	Rx			23ACNOR		QPSK, TELEPHONY
245)	3600.0000-3629.0000	L,R	2K40G7D	Rx			23ACNOR		BPSK, DATA/TDM
246)	3600.0000-3629.0000	L,R	24K0G1W	Rx			23ACNOR		QPSK, DATA/FAX
247)	3600.0000-3629.0000	L,R	132KG7D	Rx			23ACNOR		BPSK, DATA/TDM
248)	3600.0000-3629.0000	L,R	7K50G1W	Rx			23ACNOR		DIGITAL DATA
249)	3600.0000-3629.0000	L,R	7K50G1E	Rx			23ACNOR		DIGITAL DATA
250)	3600.0000-3629.0000	L,R	7K50G1D	Rx			23ACNOR		DIGITAL DATA
251)	3600.0000-3629.0000	L,R	60K0D1W	Rx			23ACNOR		DIGITAL DATA
252)	3600.0000-3629.0000	L,R	5K00G1W	Rx			23ACNOR		DIGITAL DATA
253)	3600.0000-3629.0000	L,R	5K00G1E	Rx			23ACNOR		DIGITAL DATA
254)	3600.0000-3629.0000	L,R	5K00G1D	Rx			23ACNOR		DIGITAL DATA
255)	3600.0000-3629.0000	L,R	45K0G7D	Rx			23ACNOR		DIGITAL DATA
256)	3600.0000-3629.0000	L,R	2K50G1D	Rx			23ACNOR		DIGITAL DATA
257)	3600.0000-3629.0000	L,R	2K50F1D	Rx			23ACNOR		DIGITAL DATA



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#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
258)	3600.0000-3629.0000	L,R	20K0G1X	Rx			23ACNOR		DIGITAL DATA
259)	3600.0000-3629.0000	L,R	20K0G1E	Rx			23ACNOR		DIGITAL DATA
260)	3600.0000-3629.0000	L,R	17K5G1D	Rx			23ACNOR		DIGITAL DATA
261)	3600.0000-3629.0000	L,R	100KG1X	Rx			23ACNOR		DIGITAL DATA
262)	3600.0000-3629.0000	L,R	2M20G1D	Rx			23ACNOR		BPSK, DATA
263)	3600.0000-3629.0000	L,R	2K40G1D	Rx			23ACNOR		BPSK, DATA
264)	1626.5000-1660.5000	L,R	NON	Tx	27.20	27.20	23BLBAND		UNMODULATED AFC PILOT (CLOSE LOOP)
265)	1574.4000-1576.6000	L,R	2M20G1D	Rx			23BLBAND		TEST BPSK SPREAD SPECTRUM DATA- CLOSE LOOP
266)	1525.0000-1559.0000	L,R	34K0F3E	Rx			23BLBAND		TEST FM, TELEPHONY COMPANDED AND UNCOMPANDED
267)	1525.0000-1559.0000	L,R	2M20G1D	Rx			23BLBAND		TEST BPSK SPREAD SPECTRUM DATA- CLOSE LOOP
268)	1525.0000-1559.0000	L,R	400KG1F	Rx			23BLBAND		TEST QPSK, DIGITAL VIDEO/DATA
269)	1525.0000-1559.0000	L,R	40K0G1W	Rx			23BLBAND		TEST 16 QAM DIGITAL TELEPHONY
270)	1525.0000-1559.0000	L,R	5K60G1E	Rx			23BLBAND		TEST QPSK, TELEPHONY
271)	1525.0000-1559.0000	L,R	24K0G1E	Rx			23BLBAND		TEST QPSK, TELEPHONY
272)	1525.0000-1559.0000	L,R	5K60G1W	Rx			23BLBAND		TEST QPSK, DATA/FAX
273)	1525.0000-1559.0000	L,R	2K40G7D	Rx			23BLBAND		TEST BPSK, DATA/TDM
274)	1525.0000-1559.0000	L,R	24K0G1W	Rx			23BLBAND		TEST QPSK, DATA/FAX
275)	1525.0000-1559.0000	L,R	132KG7D	Rx			23BLBAND		TEST BPSK, DATA/TDM
276)	1525.0000-1559.0000	L,R	NON	Rx			23BLBAND		UNMODULATED AFC PILOT
277)	1525.0000-1559.0000	L,R	2M20G1D	Rx			23BLBAND		TEST BPSK, DATA
278)	1525.0000-1559.0000	L,R	2K40G1D	Rx			23BLBAND		TEST BPSK, DATA
279)	6425.0000-6454.0000	L,R	20K0G1E	Tx	56.80	49.80	21CNORM		DIGITAL 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
280)	6425.0000-6454.0000	R	2K40G2D	Tx	44.50	44.50	12.8M.		DIGITAL CARRIER
281)	1626.5000-1660.5000	L,R	40K0G1W	Tx	48.20	38.20	21LBAND		TEST 16 QAM DIGITAL TELEPHONY
282)	3600.0000-3629.0000	L,R	34K0F3E	Rx			21CNORM		FM TELEPHONY COMPANDED AND UNCOMPANDED
283)	3947.0000-3953.0000	L,R	131KG2D	Rx			23ACNOR		PCM/PSK/BI-PHASE TRACKING BEACON
284)	3600.0000-3629.0000	L,R	5K60G1W	Rx			23ACNOR		QPSK, DATA/FAX
285)	6425.0000-6454.0000	L,R	7K50G1E	Tx	62.20	59.50	12.8M.		DIGITAL DATA
286)	3600.0000-3629.0000	L,R	7K50G1D	Rx			12.8M.		DIGITAL DATA
287)	1626.5000-1660.5000	R	1K20G1D	Tx	36.00	36.00	12.8M.		DIGITAL CARRIER
288)	1525.0000-1559.0000	L,R	132KG7D	Rx			21LBAND		TEST BPSK, DATA/TDM
289)	3600.0000-3629.0000	L,R	10K0G1W	Rx			23ACNOR		DIGITAL DATA

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)	6454.0000-6456.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	25.44	21CNORM
2)	6424.0000-6454.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	30.5	21CNORM
3)	5927.0000-5927.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	57.14	21CNORM
4)	5925.0000-6425.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	31.64	21CNORM
5)	3600.0000-3629.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		21CNORM
6)	3947.0000-3953.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		21CNORM
7)	3700.0000-4200.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		21CNORM
8)	1574.4000-1576.6000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	0	12.8M.
9)	6417.5000-6454.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	11.9	12.8M.
10)	3600.0000-3629.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	0	12.8M.
11)	4195.0000-4199.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	0	12.8M.



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Common Carrier

Grant date: 03/23/2018

Expiration Date: 04/08/2033

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		
12)	1626.5000-1660.5000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	0	12.8M.
13)	1525.0000-1559.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	0	12.8M.
14)	6454.4000-6456.6000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	11.9	12.8M.
15)	3600.0000-3629.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0		12.8M.
16)	6425.0000-6454.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	24	12.8M.
17)	1626.5000-1660.5000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	27.64	21LBAND
18)	1574.4000-1576.6000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		21LBAND
19)	1525.0000-1559.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		21LBAND
20)	6454.0000-6456.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	27.76	23ACNOR
21)	6424.0000-6454.0000	2.0W	-144.0W	05.3	-05.7	102.6	-257.0	27.1	23ACNOR
22)	5927.0000-5927.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	66.66	23ACNOR
23)	5925.0000-6425.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	41.16	23ACNOR
24)	1626.5000-1660.5000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0	34.66	23BLBAND
25)	1574.4000-1576.6000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		23BLBAND
26)	1525.0000-1559.0000	2.0W	-144.0W	05.2	-05.7	102.6	-257.0		23BLBAND

D) Points of Communications

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

- 1) 21CTTC/HUB to Permitted Space Station List
- 2) 21CTTC/HUB to INMARSAT 3F5 satellite (S2949) @ 54 W.L. (United Kingdom-licensed)
- 3) 21CTTC/HUB to INMARSAT 3F2 satellite @15.5 degrees W.L. (United Kingdom-licensed)
- 4) 21CTTC/HUB to INMARSAT 4F3 satellite(s) @ 97.65 degrees W.L. (United Kingdom-licensed)
- 5) 21CNORM to Permitted Space Station List
- 6) 21CNORM to INMARSAT 3F5 satellite (S2949) @ 54 W.L. (United Kingdom-licensed)
- 7) 21CNORM to INMARSAT 3F2 satellite @15.5 degrees W.L. (United Kingdom-licensed)
- 8) 21CNORM to INMARSAT 4F3 satellite(s) @ 97.65 degrees W.L. (United Kingdom-licensed)
- 9) 1 to INMARSAT 4F2 satellite(s) @52.75 W.L. in AOR-EAST (United Kingdom-licensed)
- 10) 1 to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band
- 11) 1 to INMARSAT 4F3 satellite(s) @ 98 degrees W.L. (United Kingdom-licensed)
- 12) 1 to INMARSAT 3F5 satellite (S2949) @ 54 W.L. (United Kingdom-licensed)
- 13) 21LBAND to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band
- 14) 23ACTTC to INMARSAT 4F3 satellite(s) @ 97.65 degrees W.L. (United Kingdom-licensed)
- 15) 23ACTTC to Permitted Space Station List



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Common Carrier

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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:

- 16) 23ACTTC to INMARSAT 3F5 satellite (S2949) @ 54 W.L. (United Kingdom-licensed)
- 17) 23ACTTC to INMARSAT 3F2 satellite @15.5 degrees W.L. (United Kingdom-licensed)
- 18) 23ACNOR to Permitted Space Station List
- 19) 23ACNOR to INMARSAT 3F5 satellite (S2949) @ 54 W.L. (United Kingdom-licensed)
- 20) 23ACNOR to INMARSAT 3F2 satellite @15.5 degrees W.L. (United Kingdom-licensed)
- 21) 23BLBAND to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band

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)
1	12.8M.	1	12.8	PHILCO-FORD	42 FOOT	36.6	15.2 AGL/ 51.8 AMSL	
Max Gains(s):		52.8 dBi @	3.6000 GHz	56.0 dBi @	6.4250 GHz			
Maximum total input power at antenna flange (Watts) =					1,000.00			
Maximum aggregate output EIRP for all carriers (dBW) =					86.00			
21CNORM	21CNORM	1	12.8	PHILCO FORD	12.8M.	35.7	14.6 AGL/ 51.2 AMSL	
Max Gains(s):		52.8 dBi @	3.6000 GHz	56.0 dBi @	6.4250 GHz			
Maximum total input power at antenna flange (Watts) =					790.00			
Maximum aggregate output EIRP for all carriers (dBW) =					85.00			
21CTTC/HUB	21CTTC	0	12.8	PHILCO FORD	12.8M.	35.7	14.6 AGL/ 51.2 AMSL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =					1,125.00			
Maximum aggregate output EIRP for all carriers (dBW) =					86.50			
21LBAND	21LBAND	0	12.8	PHILCO FORD	12.8M.	35.7	14.6 AGL/ 51.2 AMSL	
Max Gains(s):		36.9 dBi @	1.5000 GHz	41.0 dBi @	1.6400 GHz			
Maximum total input power at antenna flange (Watts) =					25.00			
Maximum aggregate output EIRP for all carriers (dBW) =					55.00			



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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)
23ACNOR	23ACNOR	1	10.4	PHILCO FORD	10.4M.	35.7	11 AGL/ 46.7 AMSL	
Max Gains(s):		50.4 dBi @	3.6000 GHz	53.5 dBi @	6.4250 GHz			
Maximum total input power at antenna flange (Watts) =						800.00		
Maximum aggregate output EIRP for all carriers (dBW) =						82.50		
23ACTTC	23ACTTC	0	10.4	PHILCO FORD	10.4M.	35.7	11 AGL/ 46.7 AMSL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =						2,000.00		
Maximum aggregate output EIRP for all carriers (dBW) =						86.50		
23BLBAND	23BLBAND	1	1.8	TRUE FOCUS	1.8M.	35.7	7 AGL/ 42.7 AMSL	
Max Gains(s):		26.9 dBi @	1.5000 GHz	27.7 dBi @	1.6400 GHz			
Maximum total input power at antenna flange (Watts) =						10.70		
Maximum aggregate output EIRP for all carriers (dBW) =						38.00		

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:

- 4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (IBFS) in the "Other Filings" tab within 10 days of the change.
- 5 --- Licensee must notify the Commission when this earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.
- 6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.



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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:

- 214 --- Authority IS GRANTED pursuant to Section 25.210(j) of the Commission's rules, to permit operations of earth stations with the Inmarsat 4F2 satellite, maintained at ± 10 degree of the 52.75° W.L., subject to the condition that this waiver and the operations it permits shall terminate in the event that a satellite is launched into a location such that its stationkeeping volume would overlap the Inmarsat 4F2 satellite's ± 0.10 degree stationkeeping volume, but would not overlap the Inmarsat 4F2 satellite's $\pm 0.05^\circ$ degree stationkeeping volume, unless Inmarsat has successfully coordinated its physical operations with those of the other spacecraft.
- 215 --- Operations via the Inmarsat 4F2 satellite using a north-south inclination of as much as three degrees ARE GRANTED, conditioned on operations of the 4F2 complying with the inclined orbit requirements set forth in Sections 25.280(b)(1)-(3) of the Commission's rules
- 216 --- Operations in the 1544-1545/1645.5-1646.5 MHz frequency bands ARE LIMITED to distress and safety communications, in accordance with International Footnotes 5.356 and 5.375 of the ITU Radio Regulations.
- 2627 --- All services are interconnected to the Public Switched Network.
- 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).
- 5957 --- Licensees must comply with the terms of any L-band operator-to-operator coordination agreement. In the absence of a continuing L-band operator-to-operator coordination agreement, operations of METs in the 1525-1559 and 1626.5-1660.5 MHz bands will be on a non-harmful interference basis until a future operator-to-operator agreement is concluded. In this instance, each licensee must notify the other operators in these frequency bands that it will be operating on a non-harmful interference basis. Each licensee must notify its customers that its operations are on a non-harmful interference basis.
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)
- 90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) 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. Physical 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.



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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.