



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Globecomm License Sub LLC

Call Sign: E070227

Authorization Type: Modification of License

File Number: SES-MOD-20190207-00225

Non Common Carrier

Grant date: 06/15/2020

Expiration Date: 10/29/2022

Nature of Service: Fixed 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	45 OSER AVENUE HAUPPAUGE, SUFFOLK, NY 11788	40°48'54.2"N	73°14'12.2"W	32	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 October 29, 2007 (3 AM Eastern Standard Time) and ending October 29, 2022 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is June 15, 2021 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	68.50	39.30	AOT-1		DIGITAL DATA CARRIERS
2)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	49.70	39.30	AOT-1		DIGITAL DATA CARRIERS
3)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	60.20	39.30	AOT-1		DIGITAL DATA CARRIERS
4)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	69.30	29.70	AOT-1		DIGITAL VIDEO, AUDIO, AND DATA
5)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx			AOT-1		DIGITAL DATA CARRIERS
6)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-1		DIGITAL DATA CARRIERS
7)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-1		DIGITAL DATA CARRIERS
8)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-1		DIGITAL VIDEO, AUDIO, AND DATA
9)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-1		DIGITAL DATA CARRIERS



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10)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-1		DIGITAL DATA CARRIERS
11)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-1		DIGITAL DATA CARRIERS
12)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx		0.00	AOT-1		DIGITAL VIDEO, AUDIO, AND DATA
13)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	70.20	40.90	AOT-22		DIGITAL DATA CARRIERS
14)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	51.30	40.90	AOT-22		DIGITAL DATA CARRIERS
15)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	61.80	40.90	AOT-22		DIGITAL DATA CARRIERS
16)	14000.0000-14500.0000	H, V	27M5G7W	Tx	79.20	40.90	AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
17)	14000.0000-14500.0000	H, V	30M5G7W	Tx	79.70	40.90	AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
18)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	80.40	40.90	AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
19)	14000.0000-14500.0000	H, V	3M40G7W	Tx	70.20	40.90	AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
20)	14000.0000-14500.0000	H, V	44K0G7W	Tx	51.30	40.90	AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
21)	14000.0000-14500.0000	H, V	461KG7W	Tx	61.50	40.90	AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
22)	13750.0000-14000.0000	H, V	30M5G7W	Tx	76.00	37.20	AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
23)	11700.0000-12200.0000	H, V	30M5G7W	Rx			AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
24)	11700.0000-12200.0000	H, V	3M40G7W	Rx			AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
25)	11700.0000-12200.0000	H, V	44K0G7W	Rx			AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
26)	11700.0000-12200.0000	H, V	461KG7W	Rx			AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
27)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx			AOT-22		DIGITAL DATA CARRIERS
28)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-22		DIGITAL DATA CARRIERS
29)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-22		DIGITAL DATA CARRIERS



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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
30)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
31)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-22		DIGITAL DATA CARRIERS
32)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-22		DIGITAL DATA CARRIERS
33)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-22		DIGITAL DATA CARRIERS
34)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx			AOT-22		DIGITAL VIDEO, AUDIO, AND DATA
35)	14000.0000-14500.0000	H, V	27M5G7W	Tx	79.20	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
36)	14000.0000-14500.0000	H, V	30M5G7W	Tx	79.70	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
37)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	80.40	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
38)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	70.20	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
39)	14000.0000-14500.0000	H, V	3M40G7W	Tx	70.20	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
40)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	51.30	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
41)	14000.0000-14500.0000	H, V	44K0G7W	Tx	51.30	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
42)	14000.0000-14500.0000	H, V	461KG7W	Tx	61.50	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
43)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	61.80	40.90	AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
44)	11700.0000-12200.0000	H, V	30M5G7W	Rx			AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
45)	11700.0000-12200.0000	H, V	3M40G7W	Rx			AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
46)	11700.0000-12200.0000	H, V	44K0G7W	Rx			AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
47)	11700.0000-12200.0000	H, V	461KG7W	Rx			AOT-24		DIGITAL VIDEO, AUDIO, AND DATA
48)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	70.20	40.90	AOT-25		DIGITAL DATA CARRIERS



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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
49)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	51.30	40.90	AOT-25		DIGITAL DATA CARRIERS
50)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	61.80	40.90	AOT-25		DIGITAL DATA CARRIERS
51)	14000.0000-14500.0000	H, V	30M5G7W	Tx	79.70	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
52)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	80.40	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
53)	14000.0000-14500.0000	H, V	3M40G7W	Tx	70.20	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
54)	14000.0000-14500.0000	H, V	44K0G7W	Tx	51.30	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
55)	14000.0000-14500.0000	H, V	461KG7W	Tx	61.50	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
56)	11700.0000-12200.0000	H, V	30M5G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
57)	11700.0000-12200.0000	H, V	3M40G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
58)	11700.0000-12200.0000	H, V	44K0G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
59)	11700.0000-12200.0000	H, V	461KG7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
60)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx			AOT-25		DIGITAL DATA CARRIERS
61)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-25		DIGITAL DATA CARRIERS
62)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx	0.00		AOT-25		DIGITAL DATA CARRIERS
63)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
64)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-25		DIGITAL DATA CARRIERS
65)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-25		DIGITAL DATA CARRIERS
66)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-25		DIGITAL DATA CARRIERS
67)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
68)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	68.90	39.60	AOT-26		DIGITAL DATA CARRIERS



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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
69)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	50.00	39.60	AOT-26		DIGITAL DATA CARRIERS
70)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	60.50	39.60	AOT-26		DIGITAL DATA CARRIERS
71)	14000.0000-14500.0000	H, V	30M5G7W	Tx	78.40	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
72)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	79.10	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
73)	14000.0000-14500.0000	H, V	3M40G7W	Tx	68.90	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
74)	14000.0000-14500.0000	H, V	44K0G7W	Tx	50.00	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
75)	14000.0000-14500.0000	H, V	461KG7W	Tx	60.20	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
76)	11700.0000-12200.0000	H, V	30M5G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
77)	11700.0000-12200.0000	H, V	3M40G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
78)	11700.0000-12200.0000	H, V	44K0G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
79)	11700.0000-12200.0000	H, V	461KG7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
80)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx			AOT-26		DIGITAL DATA CARRIERS
81)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-26		DIGITAL DATA CARRIERS
82)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-26		DIGITAL DATA CARRIERS
83)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
84)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-26		DIGITAL DATA CARRIERS
85)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-26		DIGITAL DATA CARRIERS
86)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-26		DIGITAL DATA CARRIERS
87)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
88)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	52.90	23.59	AOT-27		DIGITAL DATA CARRIERS



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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
89)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	34.00	23.59	AOT-27		DIGITAL DATA CARRIERS
90)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	44.50	23.59	AOT-27		DIGITAL DATA CARRIERS
91)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	57.20	17.70	AOT-27		DIGITAL VIDEO, AUDIO, AND DATA
92)	11700.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-27		DIGITAL DATA CARRIERS
93)	11700.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-27		DIGITAL DATA CARRIERS
94)	11700.0000-12200.0000	H, V, L, R	3M40G7D	Rx		0.00	AOT-27		DIGITAL DATA CARRIERS
95)	11700.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-27		DIGITAL VIDEO, AUDIO, AND DATA
96)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	64.50	35.20	AOT-3		DIGITAL DATA CARRIERS
97)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	45.60	35.20	AOT-3		DIGITAL DATA CARRIERS
98)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	56.10	35.20	AOT-3		DIGITAL DATA CARRIERS
99)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	65.00	25.40	AOT-3		DIGITAL VIDEO, AUDIO, AND DATA
100)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx			AOT-3		DIGITAL DATA CARRIERS
101)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-3		DIGITAL DATA CARRIERS
102)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-3		DIGITAL DATA CARRIERS
103)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-3		DIGITAL VIDEO, AUDIO, AND DATA
104)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-3		DIGITAL DATA CARRIERS
105)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-3		DIGITAL DATA CARRIERS
106)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-3		DIGITAL DATA CARRIERS
107)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx			AOT-3		DIGITAL VIDEO, AUDIO, AND DATA
108)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	68.60	39.30	AOT-5		DIGITAL DATA CARRIERS
109)	14000.0000-14500.0000	H, V, L, R	440KG7W	Tx	49.70	39.30	AOT-5		DIGITAL DATA CARRIERS
110)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	60.20	39.30	AOT-5		DIGITAL DATA CARRIERS



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111)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	70.20	30.60	AOT-5		DIGITAL VIDEO, AUDIO, AND DATA
112)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-5		DIGITAL DATA CARRIERS
113)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-5		DIGITAL DATA CARRIERS
114)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx		0.00	AOT-5		DIGITAL DATA CARRIERS
115)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-5		DIGITAL VIDEO, AUDIO, AND DATA
116)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-5		DIGITAL DATA CARRIERS
117)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-5		DIGITAL DATA CARRIERS
118)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-5		DIGITAL DATA CARRIERS
119)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx			AOT-5		DIGITAL VIDEO, AUDIO, AND 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)	14000.0000-14500.0000	3.0W	143.0W	06.2	06.5	103.2	256.4	-1.8	AOT-26
2)	11700.0000-12200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-26
3)	11450.0000-12200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-26
4)	10950.0000-11200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-26
5)	14000.0000-14500.0000	3.0W	143.0W	06.2	06.5	103.2	256.4	-0.9	AOT-25
6)	11700.0000-12200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-25
7)	10950.0000-11200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-25
8)	11450.0000-12200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-25
9)	11700.0000-12200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-22
10)	13750.0000-14000.0000	30.0W	30.0W	25.6	25.6	124.8	124.8	-20.7	AOT-22
11)	14000.0000-14500.0000	3.0W	143.0W	06.2	06.5	103.2	256.4	-0.9	AOT-22
12)	10950.0000-11200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-22
13)	11450.0000-12200.0000	3.0W	143.0W	06.2	06.5	103.2	256.4		AOT-22



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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)	11450.0000-12200.0000	37.5W-143.0W		30.4-06.5		132.3-256.4			AOT-1
15)	14000.0000-14500.0000	37.5W-143.0W		30.4-06.5		132.3-256.4			AOT-1
16)	10950.0000-11200.0000	37.5W-143.0W		30.4-06.5		132.3-256.4		-1.3	AOT-1
17)	10950.0000-11200.0000	2.0W-145.0W		05.4-05.0		102.5-257.8			AOT-3
18)	11450.0000-12200.0000	2.0W-145.0W		05.4-05.0		102.5-257.8			AOT-3
19)	14000.0000-14500.0000	2.0W-145.0W		05.4-05.0		102.5-257.8		0.4	AOT-3
20)	10950.0000-11200.0000	37.5W-143.0W		30.4-06.5		132.3-256.4			AOT-5
21)	11450.0000-12200.0000	37.5W-143.0W		30.4-06.5		132.3-256.4			AOT-5
22)	14000.0000-14500.0000	37.5W-143.0W		30.4-06.5		132.3-256.4		-1.3	AOT-5
23)	14000.0000-14500.0000	3.0W-143.0W		06.2-06.5		103.2-256.4		-17.81	AOT-27
24)	11700.0000-12200.0000	3.0W-143.0W		06.2-06.5		103.2-256.4			AOT-27
25)	14000.0000-14500.0000	3.0W-143.0W		06.2-06.5		103.2-256.4		-0.9	AOT-24
26)	11700.0000-12200.0000	3.0W-143.0W		06.2-06.5		103.2-256.4			AOT-24

D) Points of Communications

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

- 1) 1 to Permitted Space Station List
- 2) 1 to HISPASAT 1C @ 30.0 W.L. satellite(s) of the Spanish satellite system. (Non-U.S.-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)
1	AOT-1	1	3.8	VERTEX	3.8DPK	32	9.8 AGL/ 49.4 AMSL	
Max Gains(s): 51.9 dBi @ 12.0000 GHz 53.3 dBi @ 14.2500 GHz								
Maximum total input power at antenna flange (Watts) =					40.00			
Maximum aggregate output EIRP for all carriers (dBW) =					69.30			



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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)
1	AOT-22	1	4.8	VERTEX/RSI	4.8M	32	14.3 AGL/ 46.3 AMSL	
	Max Gains(s): 53.4 dBi @ 12.0000 GHz 54.9 dBi @ 14.2500 GHz							
	Maximum total input power at antenna flange (Watts) =				750.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				83.70			
1	AOT-24		4.8	VERTEX RSI		32	14.3 AGL/ 46.3 AMSL	
	Max Gains(s): 53.4 dBi @ 12.0000 GHz 54.9 dBi @ 14.2500 GHz							
	Maximum total input power at antenna flange (Watts) =				750.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				83.70			
1	AOT-25	1	4.8	VERTEX/RSI	4.8M	32	14.3 AGL/ 46.3 AMSL	
	Max Gains(s): 53.4 dBi @ 12.0000 GHz 54.9 dBi @ 14.2500 GHz							
	Maximum total input power at antenna flange (Watts) =				750.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				83.70			
1	AOT-26	1	4.5	ASC SIGNAL CORP.	ES45MPJ	32	14 AGL/ 46 AMSL	
	Max Gains(s): 52.4 dBi @ 12.0000 GHz 53.6 dBi @ 14.2500 GHz							
	Maximum total input power at antenna flange (Watts) =				750.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				82.40			
1	AOT-27	1	1.03	SAILOR	900	32	14 AGL/ 46 AMSL	
	Max Gains(s): 40.1 dBi @ 12.0000 GHz 41.4 dBi @ 14.2500 GHz							
	Maximum total input power at antenna flange (Watts) =				38.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				57.20			
1	AOT-3	1	2.4	PRODELIN	1251-502	32	9.1 AGL/ 48.7 AMSL	
	Max Gains(s): 48.2 dBi @ 12.0000 GHz 49.2 dBi @ 14.2500 GHz							
	Maximum total input power at antenna flange (Watts) =				38.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				65.00			



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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)
1	AOT-5	1	3.7	ANDREW	ES37MPK	32	10.3 AGL/ 49.9 AMSL	
Max Gains(s):		51.8 dBi @	12.0000 GHz	53.3 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =					49.00			
Maximum aggregate output EIRP for all carriers (dBW) =					70.20			

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 (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.

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.

8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

480 --- The grant of this license is pursuant to NG52, which requires that signals received in the 10.7-11.7 GHz band be emanated from uplink transmissions outside the US&P.

5962 --- 1. THE USER MUST PROVIDE THE NAVAL ELECTROMAGNETIC SPECTRUM CENTER (703-325-2750) A 24HR PHONE NUMBER WHEN NATIONAL DEFENSE AND US NAVAL OPERATION REQUIREMENTS NECESSITATE IMMEDIATE CESSATION OF OPERATIONS.

2. THE APPLICANT IS AWARE THAT THEY WOULD BE REQUIRED TO TEMPORARILY CEASE SATELLITE OPERATIONS ON THESE FREQUENCIES UNTIL NOTIFIED OTHERWISE.

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)



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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:

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.

90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

- 3600-4200 MHz (space-to-Earth)
- 5850-6725 MHz (Earth-to-space)
- 10.95-11.2 GHz (space-to-Earth)
- 11.45-12.2 GHz (space-to-Earth)
- 13.75-14.5 GHz (Earth-to-space)
- 18.3-18.8 GHz (space-to-Earth)
- 19.7-20.2 GHz (space-to-Earth)
- 24.75-25.25 GHz (Earth-to-space)
- 28.35-28.6 GHz (Earth-to-space)
- 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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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.