



**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-20160229-00182

Non Common Carrier

Grant date: 06/07/2016

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 7, 2017 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000-14500.0000	H, V, 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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#	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
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, L, R	3M40G7D	Tx	70.20	40.90	AOT-25		DIGITAL DATA CARRIERS
36)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	51.30	40.90	AOT-25		DIGITAL DATA CARRIERS
37)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	61.80	40.90	AOT-25		DIGITAL DATA CARRIERS
38)	14000.0000-14500.0000	H, V	30M5G7W	Tx	79.70	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
39)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	80.40	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
40)	14000.0000-14500.0000	H, V	3M40G7W	Tx	70.20	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
41)	14000.0000-14500.0000	H, V	44K0G7W	Tx	51.30	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
42)	14000.0000-14500.0000	H, V	461KG7W	Tx	61.50	40.90	AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
43)	11700.0000-12200.0000	H, V	30M5G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
44)	11700.0000-12200.0000	H, V	3M40G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
45)	11700.0000-12200.0000	H, V	44K0G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
46)	11700.0000-12200.0000	H, V	461KG7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
47)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx			AOT-25		DIGITAL DATA CARRIERS
48)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-25		DIGITAL DATA CARRIERS
49)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx	0.00		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
50)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
51)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-25		DIGITAL DATA CARRIERS
52)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-25		DIGITAL DATA CARRIERS
53)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-25		DIGITAL DATA CARRIERS
54)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx			AOT-25		DIGITAL VIDEO, AUDIO, AND DATA
55)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	68.90	39.60	AOT-26		DIGITAL DATA CARRIERS
56)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	50.00	39.60	AOT-26		DIGITAL DATA CARRIERS
57)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	60.50	39.60	AOT-26		DIGITAL DATA CARRIERS
58)	14000.0000-14500.0000	H, V	30M5G7W	Tx	78.40	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
59)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	79.10	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
60)	14000.0000-14500.0000	H, V	3M40G7W	Tx	68.90	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
61)	14000.0000-14500.0000	H, V	44K0G7W	Tx	50.00	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
62)	14000.0000-14500.0000	H, V	461KG7W	Tx	60.20	39.60	AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
63)	11700.0000-12200.0000	H, V	30M5G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
64)	11700.0000-12200.0000	H, V	3M40G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
65)	11700.0000-12200.0000	H, V	44K0G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
66)	11700.0000-12200.0000	H, V	461KG7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
67)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx			AOT-26		DIGITAL DATA CARRIERS
68)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-26		DIGITAL DATA CARRIERS
69)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			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
70)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
71)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-26		DIGITAL DATA CARRIERS
72)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-26		DIGITAL DATA CARRIERS
73)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-26		DIGITAL DATA CARRIERS
74)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx			AOT-26		DIGITAL VIDEO, AUDIO, AND DATA
75)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	52.90	23.59	AOT-27		DIGITAL DATA CARRIERS
76)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	34.00	23.59	AOT-27		DIGITAL DATA CARRIERS
77)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	44.50	23.59	AOT-27		DIGITAL DATA CARRIERS
78)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	57.20	17.70	AOT-27		DIGITAL VIDEO, AUDIO, AND DATA
79)	11700.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-27		DIGITAL DATA CARRIERS
80)	11700.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-27		DIGITAL DATA CARRIERS
81)	11700.0000-12200.0000	H, V, L, R	3M40G7D	Rx		0.00	AOT-27		DIGITAL DATA CARRIERS
82)	11700.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-27		DIGITAL VIDEO, AUDIO, AND DATA
83)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	64.50	35.20	AOT-3		DIGITAL DATA CARRIERS
84)	14000.0000-14500.0000	H, V, L, R	44K0G7W	Tx	45.60	35.20	AOT-3		DIGITAL DATA CARRIERS
85)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	56.10	35.20	AOT-3		DIGITAL DATA CARRIERS
86)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	65.00	25.40	AOT-3		DIGITAL VIDEO, AUDIO, AND DATA
87)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx			AOT-3		DIGITAL DATA CARRIERS
88)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-3		DIGITAL DATA CARRIERS
89)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-3		DIGITAL DATA CARRIERS
90)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-3		DIGITAL VIDEO, AUDIO, AND DATA
91)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-3		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
92)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-3		DIGITAL DATA CARRIERS
93)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-3		DIGITAL DATA CARRIERS
94)	10950.0000-11200.0000	H, V, L, R	36M0G7W	Rx			AOT-3		DIGITAL VIDEO, AUDIO, AND DATA
95)	14000.0000-14500.0000	H, V, L, R	3M40G7D	Tx	68.60	39.30	AOT-5		DIGITAL DATA CARRIERS
96)	14000.0000-14500.0000	H, V, L, R	440KG7W	Tx	49.70	39.30	AOT-5		DIGITAL DATA CARRIERS
97)	14000.0000-14500.0000	H, V, L, R	500KG7W	Tx	60.20	39.30	AOT-5		DIGITAL DATA CARRIERS
98)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	70.20	30.60	AOT-5		DIGITAL VIDEO, AUDIO, AND DATA
99)	11450.0000-12200.0000	H, V, L, R	44K0G7W	Rx			AOT-5		DIGITAL DATA CARRIERS
100)	11450.0000-12200.0000	H, V, L, R	500KG7W	Rx			AOT-5		DIGITAL DATA CARRIERS
101)	11450.0000-12200.0000	H, V, L, R	3M40G7D	Rx		0.00	AOT-5		DIGITAL DATA CARRIERS
102)	11450.0000-12200.0000	H, V, L, R	36M0G7W	Rx			AOT-5		DIGITAL VIDEO, AUDIO, AND DATA
103)	10950.0000-11200.0000	H, V, L, R	3M40G7D	Rx			AOT-5		DIGITAL DATA CARRIERS
104)	10950.0000-11200.0000	H, V, L, R	44K0G7W	Rx			AOT-5		DIGITAL DATA CARRIERS
105)	10950.0000-11200.0000	H, V, L, R	500KG7W	Rx			AOT-5		DIGITAL DATA CARRIERS
106)	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



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#	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		
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
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

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)



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-20160229-00182

Non Common Carrier

Grant date: 06/07/2016

Expiration Date: 10/29/2022

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					
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-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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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:

- 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.
- 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.
- 2010 --- This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.
- 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.
- 2938 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: (1) name of the licensee, (2) file number of the application, (3) call sign of the antenna, (4) date of the license, (5) certification that the facility as authorized has been completed, (6) certification that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209, and (7) certification 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.



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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:

- 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).
- 5208 --- The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- 5216 --- All operations shall be on a non-common carrier basis.
- 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.



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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.