



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

Name: ISAT US Inc.

Call Sign: E150097

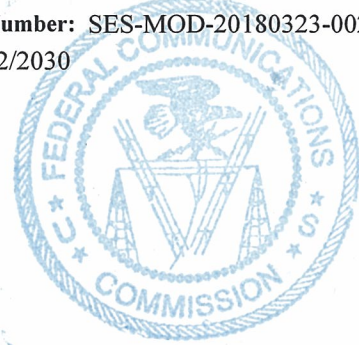
Authorization Type: Modification of License

File Number: SES-MOD-20180323-00263

Non Common Carrier

Grant date: 05/15/2018

Expiration Date: 10/22/2030



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	4000 Blanket Terminals CONUS, PR, USVI,			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
2)	10	4000 Blanket Terminals CONUS, PR, USVI,				NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
3)	11	4000 Blanket Terminals CONUS, PR, USVI,				NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
4)	12	4000 Blanket Terminals CONUS, PR, USVI, AK, HI, US TERRITORIES				NA
5)	13	1000 Blanket Terminals CONUS, PR, USVI, AK, HI, US TERRITORIES				UNK
6)	2	4000 Blanket Terminals CONUS, PR, USVI,			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				



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**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
7)	3	4000 Blanket Terminals CONUS, PR, USVI,			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
8)	4	4000 Blanket Terminals CONUS, PR, USVI,			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
9)	5	4000 Blanket Terminals CONUS, PR, USVI,			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
10)	6	4000 Blanket Terminals CONUS, PR, USVI,			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
11)	7	4000 Blanket Terminals CONUS, PR, USVI,			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
12)	8	4000 Blanket Terminals CONUS, PR, USVI,			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				



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**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
13)	9	4000 Blanket Terminals CONUS, PR, USVI,				NA

Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.

*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 22, 2015 (3 AM Eastern Standard Time) and ending October 22, 2030 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is May 15, 2019 (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)	29500.0000-30000.0000	R	3M32G7W	Tx	51.20	22.00	Fixed 1		Various modulation up to 32 APSK Digital Data Link/Data Signalling
2)	29500.0000-30000.0000	R	460KG7W	Tx	42.60	22.00	Fixed 1		Various modulation up to 32 APSK Digital Data Link/Data Signalling
3)	29500.0000-30000.0000	R	5M00G1W	Tx	51.20	20.20	Fixed 1		Various modulation up to 32 APSK Digital Data Link/Data Signalling
4)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 1		Various modulation up to 32 APSK Digital Data Link
5)	29500.0000-30000.0000	R	1M54G7W	Tx	51.60	25.70	Fixed 10		Various modulation up to 32 APSK Digital Data Link/Data Signalling
6)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	Fixed 10		Various modulation up to 32 APSK Digital Data Link/Data Signalling



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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
7)	29500.0000-30000.0000	R	5M00G1W	Tx	51.60	20.60	Fixed 10		Various modulation up to 32 APSK Digital Data Link/Data Signalling
8)	19700.0000-20200.0000	L	32M0G7W	Rx			Fixed 10		Various modulation up to 32 APSK Digital Data Link
9)	29500.0000-30000.0000	R	1M52G7W	Tx	54.60	28.80	Fixed 11		Various modulation up to 32 APSK Digital Data Link/Data Signalling
10)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	Fixed 11		Various modulation up to 32 APSK Digital Data Link/Data Signalling
11)	29500.0000-30000.0000	R	5M00G1W	Tx	54.60	23.60	Fixed 11		Various modulation up to 32 APSK Digital Data Link/Data Signalling
12)	19700.0000-20200.0000	L	32M0G7W	Rx			Fixed 11		Various modulation up to 32 APSK Digital Data Link
13)	29500.0000-30000.0000	R	1M21G7W	Tx	46.20	21.40	Fixed 12		Various modulation up to 32 APSK Digital Data Link/Data Signalling
14)	29500.0000-30000.0000	R	2M42G7W	Tx	46.20	18.40	Fixed 12		Various modulation up to 32 APSK Digital Data Link/Data Signalling
15)	19700.0000-20200.0000	L	32M0G7W	Rx			Fixed 12		Various modulation up to 32 APSK Digital Data Link
16)	29500.0000-30000.0000	R	1M87G7W	Tx	55.30	28.60	Fixed 13	90467 90468	Various modulation up to 32 APSK Digital Data Link/Data Signalling
17)	29500.0000-30000.0000	R	953KG7W	Tx	52.30	28.60	Fixed 13	90467 90468	Various modulation up to 32 APSK Digital Data Link/Data Signalling
18)	19700.0000-20200.0000	L	32M0G7W	Rx			Fixed 13	90467 90468	Various modulation up to 32 APSK Digital Data Link
19)	29500.0000-30000.0000	R	3M99G7W	Tx	53.80	23.80	Fixed 3		Various modulation up to 32 APSK Digital Data Link/Data Signalling
20)	29500.0000-30000.0000	R	460KG7W	Tx	44.40	23.80	Fixed 3		Various modulation up to 32 APSK Digital Data Link/Data Signalling



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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
21)	29500.0000-30000.0000	R	5M00G1W	Tx	53.80	22.80	Fixed 3		Various modulation up to 32 APSK Digital Data Link/Data Signalling
22)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 3		Various modulation up to 32 APSK Digital Data Link
23)	29500.0000-30000.0000	R	460KG7W	Tx	46.80	26.20	Fixed 4		Various modulation up to 32 APSK Digital Data Link/Data Signalling
24)	29500.0000-30000.0000	R	4M18G7W	Tx	56.40	26.20	Fixed 4		Various modulation up to 32 APSK Digital Data Link/Data Signalling
25)	29500.0000-30000.0000	R	5M00G1W	Tx	56.40	25.40	Fixed 4		Various modulation up to 32 APSK Digital Data Link/Data Signalling
26)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 4		Various modulation up to 32 APSK Digital Data Link
27)	29500.0000-30000.0000	R	3M24G7W	Tx	51.80	22.70	Fixed 5		Various modulation up to 32 APSK Digital Data Link/Data Signalling
28)	29500.0000-30000.0000	R	460KG7W	Tx	43.30	22.70	Fixed 5		Various modulation up to 32 APSK Digital Data Link/Data Signalling
29)	29500.0000-30000.0000	R	5M00G1W	Tx	51.80	20.80	Fixed 5		Various modulation up to 32 APSK Digital Data Link/Data Signalling
30)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 5		Various modulation up to 32 APSK Digital Data Link
31)	29500.0000-30000.0000	R	2M40G7W	Tx	49.80	22.00	Fixed 6		Various modulation up to 32 APSK Digital Data Link/Data Signalling
32)	29500.0000-30000.0000	R	460KG7W	Tx	42.60	22.00	Fixed 6		Various modulation up to 32 APSK Digital Data Link/Data Signalling
33)	29500.0000-30000.0000	R	5M00G1W	Tx	49.80	18.80	Fixed 6		Various modulation up to 32 APSK Digital Data Link/Data Signalling
34)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 6		Various modulation up to 32 APSK Digital Data Link



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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
35)	29500.0000-30000.0000	R	3M03G7W	Tx	53.50	24.70	Fixed 7A		Various modulation up to 32 APSK Digital Data Link/Data Signalling
36)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	Fixed 7A		Various modulation up to 32 APSK Digital Data Link/Data Signalling
37)	29500.0000-30000.0000	R	5M00G1W	Tx	53.50	22.50	Fixed 7A		Various modulation up to 32 APSK Digital Data Link/Data Signalling
38)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 7A		Various modulation up to 32 APSK Digital Data Link
39)	29500.0000-30000.0000	R	3M03G7W	Tx	53.50	24.70	Fixed 7B		Various modulation up to 32 APSK Digital Data Link/Data Signalling
40)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	Fixed 7B		Various modulation up to 32 APSK Digital Data Link/Data Signalling
41)	29500.0000-30000.0000	R	5M00G1W	Tx	53.50	22.50	Fixed 7B		Various modulation up to 32 APSK Digital Data Link/Data Signalling
42)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 7B		Various modulation up to 32 APSK Digital Data Link
43)	29500.0000-30000.0000	R	2M51G7W	Tx	59.40	31.40	Fixed 8A		Various modulation up to 32 APSK Digital Data Link/Data Signalling
44)	29500.0000-30000.0000	R	460KG7W	Tx	52.00	31.40	Fixed 8A		Various modulation up to 32 APSK Digital Data Link/Data Signalling
45)	29500.0000-30000.0000	R	5M00G1W	Tx	59.40	28.40	Fixed 8A		Various modulation up to 32 APSK Digital Data Link/Data Signalling
46)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 8A		Various modulation up to 32 APSK Digital Data Link
47)	29500.0000-30000.0000	R	2M51G7W	Tx	59.40	31.40	Fixed 8B		Various modulation up to 32 APSK Digital Data Link/Data Signalling
48)	29500.0000-30000.0000	R	460KG7W	Tx	52.00	31.40	Fixed 8B		Various modulation up to 32 APSK Digital Data Link/Data Signalling



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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
49)	29500.0000-30000.0000	R	5M00G1W	Tx	59.40	28.40	Fixed 8B		Various modulation up to 32 APSK Digital Data Link/Data Signalling
50)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Fixed 8B		Various modulation up to 32 APSK Digital Data Link
51)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	Fixed 9		Various modulation up to 32 APSK Digital Data Link/Data Signalling
52)	29500.0000-30000.0000	R	4M18G7W	Tx	54.50	24.30	Fixed 9		Various modulation up to 32 APSK Digital Data Link/Data Signalling
53)	29500.0000-30000.0000	R	5M00G1W	Tx	54.50	23.50	Fixed 9		Various modulation up to 32 APSK Digital Data Link/Data Signalling
54)	19700.0000-20200.0000	L	32M0G7W	Rx			Fixed 9		Various modulation up to 32 APSK Digital Data Link
55)	29500.0000-30000.0000	R	3M32G7W	Tx	51.20	22.00	TF 1		Various modulation up to 32 APSK Digital Data Link/Data Signalling
56)	29500.0000-30000.0000	R	460KG7W	Tx	42.60	22.00	TF 1		Various modulation up to 32 APSK Digital Data Link/Data Signalling
57)	29500.0000-30000.0000	R	5M00G1W	Tx	51.20	20.20	TF 1		Various modulation up to 32 APSK Digital Data Link/Data Signalling
58)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	TF 1		Various modulation up to 32 APSK Digital Data Link
59)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	TF 2		Various modulation up to 32 APSK Digital Data Link/Data Signalling
60)	29500.0000-30000.0000	R	4M18G7W	Tx	54.90	24.70	TF 2		Various modulation up to 32 APSK Digital Data Link/Data Signalling
61)	29500.0000-30000.0000	R	5M00G1W	Tx	54.90	23.90	TF 2		Various modulation up to 32 APSK Digital Data Link/Data Signalling
62)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	TF 2		Various modulation up to 32 APSK Digital Data Link



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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
63)	29500.0000-30000.0000	R	2M40G7W	Tx	49.80	22.00	TF 6		Various modulation up to 32 APSK Digital Data Link/Data Signalling
64)	29500.0000-30000.0000	R	460KG7W	Tx	42.60	22.00	TF 6		Various modulation up to 32 APSK Digital Data Link/Data Signalling
65)	29500.0000-30000.0000	R	5M00G1W	Tx	49.80	18.80	TF 6		Various modulation up to 32 APSK Digital Data Link/Data Signalling
66)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	TF 6		Various modulation up to 32 APSK Digital Data Link
67)	29500.0000-30000.0000	R	3M03G7W	Tx	53.50	24.70	TF 7		Various modulation up to 32 APSK Digital Data Link/Data Signalling
68)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	TF 7		Various modulation up to 32 APSK Digital Data Link/Data Signalling
69)	29500.0000-30000.0000	R	5M00G1W	Tx	53.50	22.50	TF 7		Various modulation up to 32 APSK Digital Data Link/Data Signalling
70)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	TF 7		Various modulation up to 32 APSK Digital Data Link
71)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	TF 9		Various modulation up to 32 APSK Digital Data Link/Data Signalling
72)	29500.0000-30000.0000	R	4M18G7W	Tx	54.50	24.30	TF 9		Various modulation up to 32 APSK Digital Data Link/Data Signalling
73)	29500.0000-30000.0000	R	5M00G1W	Tx	54.50	23.50	TF 9		Various modulation up to 32 APSK Digital Data Link/Data Signalling
74)	19700.0000-20200.0000	L	32M0G7W	Rx			TF 9		Various modulation up to 32 APSK Digital Data Link
75)	29500.0000-30000.0000	R	1M54G7W	Tx	51.60	25.70	TF10		Various modulation up to 32 APSK Digital Data Link/Data Signalling
76)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	TF10		Various modulation up to 32 APSK Digital Data Link/Data Signalling





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77)	29500.0000-30000.0000	R	5M00G1W	Tx	51.60	20.60	TF10		Various modulation up to 32 APSK Digital Data Link/Data Signalling
78)	19700.0000-20200.0000	L	32M0G7W	Rx			TF10		Various modulation up to 32 APSK Digital Data Link
79)	29500.0000-30000.0000	R	1M52G7W	Tx	54.60	28.80	TF11		Various modulation up to 32 APSK Digital Data Link/Data Signalling
80)	29500.0000-30000.0000	R	460KG7W	Tx	45.30	24.70	TF11		Various modulation up to 32 APSK Digital Data Link/Data Signalling
81)	29500.0000-30000.0000	R	5M00G1W	Tx	54.60	23.60	TF11		Various modulation up to 32 APSK Digital Data Link/Data Signalling
82)	19700.0000-20200.0000	L	32M0G7W	Rx			TF11		Various modulation up to 32 APSK Digital Data Link
83)	29500.0000-30000.0000	R	1M21G7W	Tx	46.20	21.40	TF12		Various modulation up to 32 APSK Digital Data Link/Data Signalling
84)	29500.0000-30000.0000	R	2M42G7W	Tx	46.20	18.40	TF12		Various modulation up to 32 APSK Digital Data Link/Data Signalling
85)	19700.0000-20200.0000	L	32M0G7W	Rx			TF12		Various modulation up to 32 APSK Digital Data Link

**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)	29500.0000-30000.0000	0.0E	-360.0W	05.0	-05.0	000.0	-000.0	-14.2	Fixed 1
2)	19700.0000-20200.0000	0.0E	-360.0W	05.0	-05.0	000.0	-000.0	0	Fixed 1
3)	29500.0000-30000.0000	0.0E	-360.0W	05.0	-05.0	000.0	-000.0	-14.2	TF 1
4)	19700.0000-20200.0000	0.0E	-360.0W	05.0	-05.0	000.0	-000.0	0	TF 1
5)	29500.0000-30000.0000	0.0E	-360.0W	05.0	-05.0	000.0	-000.0	-15.2	TF 2
6)	19700.0000-20200.0000	0.0E	-360.0W	05.0	-05.0	000.0	-000.0	0	TF 2



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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		
7)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-15	Fixed 3
8)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	Fixed 3
9)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-14.1	Fixed 5
10)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	Fixed 5
11)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-12.8	Fixed 6
12)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	Fixed 6
13)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-12.8	TF 6
14)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	TF 6
15)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-13.8	Fixed 7A
16)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	Fixed 7A
17)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-13.8	TF 7
18)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	TF 7
19)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-13.8	Fixed 7B
20)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	Fixed 7B
21)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	Fixed 8A
22)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-44.4	Fixed 8A
23)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-44.4	Fixed 8B
24)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	Fixed 8B
25)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-15.6	Fixed 9
26)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0			Fixed 9
27)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-15.6	TF 9
28)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0			TF 9
29)	29500.0000-30000.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		-15.2	Fixed 4
30)	19700.0000-20200.0000	0.0E-360.0W		05.0-05.0		000.0-000.0		0	Fixed 4
31)	19700.0000-20200.0000			05.0-05.0					Fixed 10
32)	29500.0000-30000.0000			05.0-05.0				-21.7	Fixed 10
33)	19700.0000-20200.0000			05.0-05.0					TF10
34)	29500.0000-30000.0000			05.0-05.0				-21.7	TF10
35)	19700.0000-20200.0000			05.0-05.0					Fixed 11
36)	29500.0000-30000.0000			05.0-05.0				-18.3	Fixed 11
37)	19700.0000-20200.0000			05.0-05.0					TF11
38)	29500.0000-30000.0000			05.0-05.0				-18.3	TF11
39)	29500.0000-30000.0000			05.0-05.0				-9	Fixed 12
40)	19700.0000-20200.0000			05.0-05.0					Fixed 12



**UNITED STATES OF AMERICA**  
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**RADIO STATION AUTHORIZATION**

Name: ISAT US Inc.

Call Sign: E150097

Authorization Type: Modification of License

File Number: SES-MOD-20180323-00263

Non Common Carrier

Grant date: 05/15/2018

Expiration Date: 10/22/2030

**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		
41)	29500.0000-30000.0000			05.0	-05.0			-9	TF12
42)	19700.0000-20200.0000			05.0	-05.0				TF12
43)	29500.0000-30000.0000			05.0	-05.0			-15.2	Fixed 13
44)	19700.0000-20200.0000			05.0	-05.0				Fixed 13

**D) Points of Communications**

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

- 1) 1 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 2) 1 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 3) 2 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 4) 2 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 5) 3 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 6) 3 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 7) 5 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 8) 5 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 9) 6 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 10) 6 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 11) 7 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 12) 7 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 13) 8 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 14) 8 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 15) 9 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 16) 9 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 17) 4 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 18) 4 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 19) 10 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 20) 10 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 21) 11 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 22) 11 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 23) 12 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 24) 12 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 25) 13 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)



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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:

26) 13 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. 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	Fixed 1	4000	0.75	Cobham SATCOM	3075	0	0 AGL/ 0 AMSL	
Max Gains(s):            41.3 dBi @    19.7000 GHz            41.6 dBi @    19.9500 GHz            41.6 dBi @ 20.2000 GHz            44.3 dBi @    29.5000 GHz            44.2 dBi @    29.7500 GHz            44.4 dBi @    30.0000 GHz								
Maximum total input power at antenna flange (Watts) =            5.00 Maximum aggregate output EIRP for all carriers (dBW) =            51.20								
10	Fixed 10	4000	0.75	DATA PATH	QCT90GX			
Max Gains(s):            44.6 dBi @    30.0000 GHz            41.9 dBi @    19.7000 GHz            42.3 dBi @ 20.2000 GHz            44.0 dBi @    29.5000 GHz								
Maximum total input power at antenna flange (Watts) =            5.00 Maximum aggregate output EIRP for all carriers (dBW) =            51.60								
11	Fixed 11	4000	1	DATA PATH	CCT120GX			
Max Gains(s):            47.6 dBi @    30.0000 GHz            45.5 dBi @    19.7000 GHz            46.2 dBi @ 20.2000 GHz            47.3 dBi @    29.5000 GHz								
Maximum total input power at antenna flange (Watts) =            5.00 Maximum aggregate output EIRP for all carriers (dBW) =            54.60								
12	Fixed 12	4000	0.45	PARADIGM	SWARM45			
Max Gains(s):            39.2 dBi @    30.0000 GHz            35.5 dBi @    19.7000 GHz            36.0 dBi @ 20.2000 GHz            39.3 dBi @    29.5000 GHz								
Maximum total input power at antenna flange (Watts) =            5.00 Maximum aggregate output EIRP for all carriers (dBW) =            46.20								
13	Fixed 13	1000	1	COBHAM	EXPLORER8100GX			
Max Gains(s):            44.0 dBi @    19.7000 GHz            44.0 dBi @    20.2000 GHz            44.0 dBi @ 20.2000 GHz            48.2 dBi @    29.5000 GHz								
Maximum total input power at antenna flange (Watts) =            5.00 Maximum aggregate output EIRP for all carriers (dBW) =            55.30								



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Non Common Carrier

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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)
3	Fixed 3	4000	0.85	L3	Cheetah II	0	0 AGL/ 0 AMSL	
Max Gains(s):             42.5 dBi @    19.7000 GHz             42.9 dBi @    20.2000 GHz             46.8 dBi @								
29.5000 GHz             46.6 dBi @    30.0000 GHz             42.9 dBi @    19.9500 GHz             46.9								
dBi @    29.7500 GHz								
Maximum total input power at antenna flange (Watts) =             5.00								
Maximum aggregate output EIRP for all carriers (dBW) =             53.80								
4	Fixed 4	4000	1.2	L3	Hawkeye III Lite	0	0 AGL/ 0 AMSL	
Max Gains(s):             45.7 dBi @    19.7000 GHz             45.9 dBi @    19.9500 GHz             46.0 dBi @								
20.2000 GHz             49.2 dBi @    29.5000 GHz             49.4 dBi @    29.7500 GHz             49.4								
dBi @    30.0000 GHz								
Maximum total input power at antenna flange (Watts) =             5.00								
Maximum aggregate output EIRP for all carriers (dBW) =             56.40								
5	Fixed 5	4000	0.69	Paradigm/SWT	Connect 70	0	0 AGL/ 0 AMSL	
Max Gains(s):             44.7 dBi @    29.5000 GHz             44.8 dBi @    29.7500 GHz             44.9 dBi @								
30.0000 GHz             41.1 dBi @    19.7000 GHz             41.2 dBi @    19.9500 GHz             41.2								
dBi @    20.2000 GHz								
Maximum total input power at antenna flange (Watts) =             5.00								
Maximum aggregate output EIRP for all carriers (dBW) =             51.80								
6	Fixed 6	4000	0.65	SWT	Atom 65GX/01	0	0 AGL/ 0 AMSL	
Max Gains(s):             40.6 dBi @    19.7000 GHz             40.6 dBi @    19.9500 GHz             41.0 dBi @								
20.2000 GHz             43.4 dBi @    29.5000 GHz             42.8 dBi @    29.7500 GHz             44.4								
dBi @    30.0000 GHz								
Maximum total input power at antenna flange (Watts) =             5.00								
Maximum aggregate output EIRP for all carriers (dBW) =             49.80								
7	Fixed 7A	4000	0.934	Paradigm/SWT	Connect 100	0	0 AGL/ 0 AMSL	
Max Gains(s):             43.8 dBi @    19.7000 GHz             43.9 dBi @    19.9500 GHz             44.1 dBi @								
20.2000 GHz             46.6 dBi @    29.5000 GHz             46.5 dBi @    29.7500 GHz             46.7								
dBi @    30.0000 GHz								
Maximum total input power at antenna flange (Watts) =             5.00								
Maximum aggregate output EIRP for all carriers (dBW) =             53.50								
7	Fixed 7B	4000	0.934	Paradigm/SWT	SKY98GX/01	0	0 AGL/ 0 AMSL	
Max Gains(s):             43.8 dBi @    19.7000 GHz             43.9 dBi @    19.9500 GHz             44.1 dBi @								
20.2000 GHz             46.6 dBi @    29.5000 GHz             46.5 dBi @    29.7500 GHz             46.7								
dBi @    30.0000 GHz								
Maximum total input power at antenna flange (Watts) =             5.00								
Maximum aggregate output EIRP for all carriers (dBW) =             53.50								



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**E) Antenna Facilities**

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
8	Fixed 8A	4000	1.8	Paradigm/SWT	Connect 180	0	0 AGL/ 0 AMSL	
Max Gains(s):		49.0 dBi @ 19.7000 GHz	49.1 dBi @ 19.9500 GHz	49.2 dBi @ 20.2000 GHz	52.4 dBi @ 29.7500 GHz	52.4 dBi @ 30.0000 GHz	52.4	
Maximum total input power at antenna flange (Watts) =		5.00						
Maximum aggregate output EIRP for all carriers (dBW) =		59.40						
8	Fixed 8B	4000	1.8	Paradigm/SWT	SKY180GX/01	0	0 AGL/ 0 AMSL	
Max Gains(s):		49.0 dBi @ 19.7000 GHz	49.1 dBi @ 19.9500 GHz	49.2 dBi @ 20.2000 GHz	52.4 dBi @ 29.7500 GHz	52.4 dBi @ 30.0000 GHz	52.4	
Maximum total input power at antenna flange (Watts) =		5.00						
Maximum aggregate output EIRP for all carriers (dBW) =		59.40						
9	Fixed 9	4000	0.89	SKYWARE TECHNOLOGIES	ATOM 99			
Max Gains(s):		47.5 dBi @ 30.0000 GHz	43.9 dBi @ 19.7000 GHz	44.2 dBi @ 20.2000 GHz	44.0 dBi @ 19.9500 GHz	47.5 dBi @ 29.7500 GHz	47.5	
Maximum total input power at antenna flange (Watts) =		5.00						
Maximum aggregate output EIRP for all carriers (dBW) =		54.50						
1	TF 1	4000	0.75	Cobham SATCOM	5075	0	0 AGL/ 0 AMSL	
Max Gains(s):		41.6 dBi @ 19.9500 GHz	41.6 dBi @ 20.2000 GHz	44.3 dBi @ 29.5000 GHz	44.2 dBi @ 29.7500 GHz	44.4 dBi @ 30.0000 GHz	41.3	
Maximum total input power at antenna flange (Watts) =		5.00						
Maximum aggregate output EIRP for all carriers (dBW) =		51.20						
2	TF 2	4000	1	Cobham SATCOM	7100	0	0 AGL/ 0 AMSL	
Max Gains(s):		44.6 dBi @ 19.7000 GHz	44.6 dBi @ 19.9500 GHz	44.7 dBi @ 20.2000 GHz	47.8 dBi @ 29.5000 GHz	47.9 dBi @ 29.7500 GHz	47.0	
Maximum total input power at antenna flange (Watts) =		5.00						
Maximum aggregate output EIRP for all carriers (dBW) =		54.90						
6	TF 6	4000	0.65	SWT	Atom 65AAGX/01	0	0 AGL/ 0 AMSL	
Max Gains(s):		40.6 dBi @ 19.7000 GHz	40.6 dBi @ 19.9500 GHz	41.0 dBi @ 20.2000 GHz	43.4 dBi @ 29.5000 GHz	42.8 dBi @ 29.7500 GHz	44.4	
Maximum total input power at antenna flange (Watts) =		5.00						
Maximum aggregate output EIRP for all carriers (dBW) =		49.80						



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Non Common Carrier

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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)
7	TF 7	4000	0.934	Paradigm/SWT	Connect 100T	0	0 AGL/ 0 AMSL	
Max Gains(s):      46.7 dBi @    30.0000 GHz      43.8 dBi @    19.7000 GHz      43.9 dBi @ 19.9500 GHz      44.1 dBi @    20.2000 GHz      46.6 dBi @    29.5000 GHz      46.5 dBi @    29.7500 GHz								
Maximum total input power at antenna flange (Watts) =                      5.00 Maximum aggregate output EIRP for all carriers (dBW) =                      53.50								
9	TF 9	4000	0.89	SYKYWARE TECHNOLOGIES	ATOM 99			
Max Gains(s):      47.5 dBi @    30.0000 GHz      43.9 dBi @    19.7000 GHz      44.2 dBi @ 20.2000 GHz      47.5 dBi @    29.5000 GHz      44.0 dBi @    19.9500 GHz      47.5 dBi @    29.7500 GHz								
Maximum total input power at antenna flange (Watts) =                      5.00 Maximum aggregate output EIRP for all carriers (dBW) =                      54.50								
10	TF10	4000	0.75	DATA PATH	QCT90GX			
Max Gains(s):      44.6 dBi @    30.0000 GHz      41.9 dBi @    19.7000 GHz      42.3 dBi @ 20.2000 GHz      44.0 dBi @    29.5000 GHz								
Maximum total input power at antenna flange (Watts) =                      5.00 Maximum aggregate output EIRP for all carriers (dBW) =                      51.60								
11	TF11	4000	1	DATA PATH	CCT120GX			
Max Gains(s):      45.5 dBi @    19.7000 GHz      46.2 dBi @    20.2000 GHz      47.3 dBi @ 29.5000 GHz      47.6 dBi @    30.0000 GHz								
Maximum total input power at antenna flange (Watts) =                      5.00 Maximum aggregate output EIRP for all carriers (dBW) =                      54.60								
12	TF12	4000	0.45	PARADIGN	SWARM-45			
Max Gains(s):      39.2 dBi @    30.0000 GHz      35.5 dBi @    19.7000 GHz      36.0 dBi @ 20.2000 GHz      39.3 dBi @    29.5000 GHz								
Maximum total input power at antenna flange (Watts) =                      5.00 Maximum aggregate output EIRP for all carriers (dBW) =                      46.20								

**F) Remote Control Point:**

1	6211 Glen Circle	Call Sign: E120072
	Lino Lakes, Anoka, MN 55014	
	808-469-7104	



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**F) Remote Control Point:**

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- |    |   |                    |
|----|---|--------------------|
| 10 | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 11 | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 12 | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 13 | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 2  | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 3  | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 4  | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 5  | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 6  | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |





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**F) Remote Control Point:**

- 
- |   |   |                    |
|---|---|--------------------|
| 7 | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 8 | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |
| 9 | 6211 Glen Circle<br>Lino Lakes, Anoka, MN 55014<br>808-469-7104 | Call Sign: E120072 |

**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.
- 2653 --- Licensee shall maintain a 24-hour point of contact who can remedy any interference problems or terminate operations if necessary.
- 90104 --- For any new antenna authorized by this grant, the licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, Site ID, date of the license and certification that the antenna model was put into operation.
- 90244 --- This authorization and any licenses related thereto are subject to compliance with the provisions of the Agreement between Inmarsat on the one hand and the U.S. Department of Justice (DOJ) and the Department of Homeland Security (DHS) on the other, dated September 23, 2008, as amended.
- 90354 --- Operations shall be in accordance with the US334 Coordination Agreement between the operators of Inmarsat-5 F3 satellite and US Government satellites operating in the 17.7-20.2 GHz frequency band.



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Expiration Date: 10/22/2030

## H) Special and General Provisions

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

90355 --- Operations shall be in accordance with the US334 Coordination Agreement between the operators of Inmarsat-5 F2 satellite and US Government satellites operating in the 17.7-20.2 GHz frequency band.

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](http://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.

90467 --- Site ID 13 is prohibited to operate as a temporary-fixed earth station.

90468 --- Antenna ID Fixed 13 is a 47 C.F.R. Section 25.138 compliant.



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

Name: ISAT US Inc.

Call Sign: E150097

Authorization Type: Modification of License

File Number: SES-MOD-20180323-00263

Non Common Carrier

Grant date: 05/15/2018

Expiration Date: 10/22/2030

**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.**