



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION**

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**RADIO STATION AUTHORIZATION**

**Name:** ISAT US Inc.

**Call Sign:** E140029

**Authorization Type:** Modification of License

**File Number:** SES-MOD-20200730-00809

**Non Common Carrier**

**Grant date:** 10/09/2020

**Expiration Date:** 09/29/2030

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Mobile Earth Station

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	RMT1	Maritime Vessels/4000units Atlantic Ocean, Pacific Ocean 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)	RMT10	Maritime Vessels/50units South Atlantic Ocean Region				NA
3)	RMT11	Maritime Vessels/50units South Atlantic Ocean Region				NA
4)	RMT12	MARITIME VESSELS/4000 UNITS ATLANTIC OCEAN, PACIFIC OCEAN CONUS PR USVI,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
5)	RMT13	MARITIME VESSELS/4000 UNITS ATLANTIC OCEAN, PACIFIC OCEAN CONUS PR USVI,				UNK
6)	RMT2	Maritime Vessels/4000units Atlantic Ocean, Pacific Ocean 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)	RMT3	Maritime Vessels/4000units Atlantic Ocean, Pacific Ocean 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.				
8)	RMT4	Maritime Vessels/4000units Atlantic Ocean, Pacific Ocean 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.				
9)	RMT5	Maritime Vessels/4000units Atlantic Ocean, Pacific Ocean 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.				
10)	RMT6	Maritime Vessels/4000units Atlantic Ocean, Pacific Ocean 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.				
11)	RMT7	Maritime Vessels/4000units Atlantic Ocean, Pacific Ocean 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.				
12)	RMT8	Maritime Vessels/4000units Atlantic Ocean, Pacific Ocean CONUS PR USVI,				UNK



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**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
13)	RMT9	Maritime Vessels/50units South Atlantic Ocean Region				NA	

*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 September 29, 2015 (3 AM Eastern Standard Time) and ending September 29, 2030 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is October 9, 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)	29500.0000-30000.0000	R	3M56G7W	Tx	55.00	25.50	EM Cobra		Modulation and Services various modulations up to 32 APSK Digital Data Link
2)	29500.0000-30000.0000	R	7M11G7W	Tx	58.00	25.50	EM Cobra		Modulation and Services various modulations up to 32 APSK Digital Data Link
3)	19700.0000-20200.0000	L	32M0G7W	Rx			EM Cobra		Modulation and Services various modulations up to 32 APSK Digital Data Link
4)	29500.0000-30000.0000	R	1M79G1W	Tx	54.60	28.10	INT GX100		Modulation and Services Digital Data Signalling
5)	29500.0000-30000.0000	R	5M00G1W	Tx	54.50	23.50	INT GX100		Modulation and Services Digital Data Signalling
6)	29500.0000-30000.0000	R	600KG7W	Tx	47.80	26.00	INT GX100		Various Modulations up to 32APSK; Digital Data Link



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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	6M96G7W	Tx	54.50	22.10	INT GX100		Various Modulations up to 32APSK; Digital Data Link
8)	29100.0000-29500.0000	R	1M79G1W	Tx	54.60	28.10	INT GX100		Modulation and Services Digital Data Signalling
9)	29100.0000-29500.0000	R	5M00G1W	Tx	54.50	23.50	INT GX100		Modulation and Services Digital Data Signalling
10)	29100.0000-29500.0000	R	600KG7W	Tx	47.80	26.00	INT GX100		Various Modulations up to 32APSK; Digital Data Link
11)	29100.0000-29500.0000	R	6M96G7W	Tx	54.50	22.10	INT GX100		Various Modulations up to 32APSK; Digital Data Link
12)	19700.0000-20200.0000	L	32M0G7W	Rx			INT GX100		Various Modulations up to 32APSK; Digital Data Link
13)	19300.0000-19700.0000	L	32M0G7W	Rx			INT GX100		Various Modulations up to 32APSK; Digital Data Link
14)	29500.0000-30000.0000	R	2M20G1W	Tx	50.50	23.10	INT GX60		Modulation and Services Digital Data Signalling
15)	29500.0000-30000.0000	R	5M00G1W	Tx	50.90	19.90	INT GX60		Modulation and Services Digital Data Signalling
16)	29500.0000-30000.0000	R	492KG7W	Tx	44.00	23.10	INT GX60		Various Modulations up to 32APSK; Digital Data Link
17)	29500.0000-30000.0000	R	6M96G7W	Tx	50.90	18.50	INT GX60		Various Modulations up to 32APSK; Digital Data Link
18)	29100.0000-29500.0000	R	2M20G1W	Tx	50.50	23.10	INT GX60		Modulation and Services Digital Data Signalling
19)	29100.0000-29500.0000	R	5M00G1W	Tx	50.90	19.90	INT GX60		Modulation and Services Digital Data Signalling
20)	29100.0000-29500.0000	R	492KG7W	Tx	44.00	23.10	INT GX60		Various Modulations up to 32APSK; Digital Data Link
21)	29100.0000-29500.0000	R	6M96G7W	Tx	50.90	18.50	INT GX60		Various Modulations up to 32APSK; Digital Data Link
22)	19700.0000-20200.0000	L	32M0G7W	Rx			INT GX60		Various Modulations up to 32APSK; Digital Data Link
23)	19300.0000-19700.0000	L	32M0G7W	Rx			INT GX60		Various Modulations up to 32APSK; Digital Data Link
24)	29500.0000-30000.0000	R	1M79G1W	Tx	58.20	31.70	INTGX100N		Modulation and Services Digital Data Signalling



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The General Provision 1010 applies to all receiving frequency bands.

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#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
25)	29500.0000-30000.0000	R	5M00G1W	Tx	58.20	27.20	INTGX100N		Modulation and Services Digital Data Signalling
26)	29500.0000-30000.0000	R	600KG7W	Tx	51.50	29.70	INTGX100N		Various Modulations up to 32APSK; Digital Data Link
27)	29500.0000-30000.0000	R	6M96G7W	Tx	58.20	25.80	INTGX100N		Various Modulations up to 32APSK; Digital Data Link
28)	19700.0000-20200.0000	L	32M0G7W	Rx			INTGX100N		Various Modulations up to 32APSK; Digital Data Link
29)	29500.0000-30000.0000	R	1M79G1W	Tx	58.20	31.70	JUE-100NX		Modulation and Services Digital Data Signalling
30)	29500.0000-30000.0000	R	5M00G12	Tx	58.20	27.20	JUE-100NX		Modulation and Services Digital Data Signalling
31)	29500.0000-30000.0000	R	600KG7W	Tx	51.50	29.70	JUE-100NX		Various Modulations up to 32APSK; Digital Data Link
32)	29500.0000-30000.0000	R	6M96G7W	Tx	58.20	25.80	JUE-100NX		Various Modulations up to 32APSK; Digital Data Link
33)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	JUE-100NX		Various Modulations up to 32APSK; Digital Data Link
34)	29500.0000-30000.0000	R	2M70G1W	Tx	50.50	22.20	JUE-60GX		Modulation and Services Digital Data Signalling
35)	29500.0000-30000.0000	R	5M00G1W	Tx	50.90	19.90	JUE-60GX		Modulation and Services Digital Data Signalling
36)	29500.0000-30000.0000	R	600KG7W	Tx	44.00	22.20	JUE-60GX		Various Modulations up to 32APSK; Digital Data Link
37)	29500.0000-30000.0000	R	6M96G7W	Tx	50.90	18.50	JUE-60GX		Various Modulations up to 32APSK; Digital Data Link
38)	29100.0000-29500.0000	R	2M70G1W	Tx	50.50	22.20	JUE-60GX		Modulation and Services Digital Data Signalling
39)	29100.0000-29500.0000	R	5M00G1W	Tx	50.90	19.90	JUE-60GX		Modulation and Services Digital Data Signalling
40)	29100.0000-29500.0000	R	600KG7W	Tx	44.00	22.20	JUE-60GX		Various Modulations up to 32APSK; Digital Data Link
41)	29100.0000-29500.0000	R	6M96G7W	Tx	50.90	18.50	JUE-60GX		Various Modulations up to 32APSK; Digital Data Link
42)	19700.0000-20200.0000	L,R	32M0G7W	Rx			JUE-60GX		Modulation and Services Digital 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
43)	19300.0000-19700.0000	L, R	32M0G7W	Rx			JUE-60GX		Modulation and Services Digital Data Signalling
44)	29500.0000-30000.0000	R	460KG7W	Tx	46.00	25.40	MicroSat		Various Modulations up to 32APSK; Digital Data Link
45)	29500.0000-30000.0000	R	5M00G1W	Tx	46.00	15.00	MicroSat		Various Modulations up to 32APSK; Digital Data Link
46)	19700.0000-20200.0000	L	32M0G7W	Rx			MicroSat		Various Modulations up to 32APSK; Digital Data Link
47)	29500.0000-30000.0000	R	460KG7W	Tx	48.80	28.20	MilliSat-H		Various Modulations up to 32APSK; Digital Data Link
48)	29500.0000-30000.0000	R	5M00G1W	Tx	48.80	17.80	MilliSat-H		Various Modulations up to 32APSK; Digital Data Link
49)	19700.0000-20200.0000	L	32M0G7W	Rx			MilliSat-H		Various Modulations up to 32APSK; Digital Data Link
50)	29500.0000-30000.0000	R	460KG7W	Tx	48.80	28.20	MilliSat-W		Various Modulations up to 32APSK; Digital Data Link
51)	29500.0000-30000.0000	R	5M00G1W	Tx	48.80	17.80	MilliSat-W		Various Modulations up to 32APSK; Digital Data Link
52)	19700.0000-20200.0000	L	32M0G7W	Rx			MilliSat-W		Various Modulations up to 32APSK; Digital Data Link
53)	29500.0000-30000.0000	R	2M70G1W	Tx	54.30	26.00	SAILOR 100		Modulation and Services Digital Data Signalling
54)	29500.0000-30000.0000	R	5M00G1W	Tx	54.50	23.50	SAILOR 100		Modulation and Services Digital Data Signalling
55)	29500.0000-30000.0000	R	600KG7W	Tx	47.80	26.00	SAILOR 100		Various Modulations up to 32APSK; Digital Data Link
56)	29500.0000-30000.0000	R	6M96G7W	Tx	54.50	22.10	SAILOR 100		Various Modulations up to 32APSK; Digital Data Link
57)	29100.0000-29500.0000	R	2M70G1W	Tx	54.30	26.00	SAILOR 100		Modulation and Services Digital Data Signalling
58)	29100.0000-29500.0000	R	5M00G1W	Tx	54.50	23.50	SAILOR 100		Modulation and Services Digital Data Signalling
59)	29100.0000-29500.0000	R	600KG7W	Tx	47.80	26.00	SAILOR 100		Various Modulations up to 32APSK; Digital Data Link
60)	29100.0000-29500.0000	R	6M96G7W	Tx	54.50	22.10	SAILOR 100		Various Modulations up to 32APSK; Digital Data Link



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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
61)	19700.0000-20200.0000	L	32M0G7W	Rx			SAILOR 100		Various Modulations up to 32APSK; Digital Data Link
62)	19300.0000-19700.0000	L	32M0G7W	Rx			SAILOR 100		Various Modulations up to 32APSK; Digital Data Link
63)	29500.0000-30000.0000	R	2M20G1W	Tx	50.50	23.10	SAILOR 60		Modulation and Services Digital Data Signalling
64)	29500.0000-30000.0000	R	5M00G1W	Tx	50.70	19.70	SAILOR 60		Modulation and Services Digital Data Signalling
65)	29500.0000-30000.0000	R	492KG7W	Tx	44.00	23.10	SAILOR 60		Various Modulations up to 32APSK; Digital Data Link
66)	29500.0000-30000.0000	R	6M96G7W	Tx	50.70	18.30	SAILOR 60		Various Modulations up to 32APSK; Digital Data Link
67)	29100.0000-29500.0000	R	2M20G1W	Tx	50.50	23.10	SAILOR 60		Modulation and Services Digital Data Signalling
68)	29100.0000-29500.0000	R	5M00G1W	Tx	50.70	19.70	SAILOR 60		Modulation and Services Digital Data Signalling
69)	29100.0000-29500.0000	R	492KG7W	Tx	44.00	23.10	SAILOR 60		Various Modulations up to 32APSK; Digital Data Link
70)	29100.0000-29500.0000	R	6M96G7W	Tx	50.70	18.30	SAILOR 60		Various Modulations up to 32APSK; Digital Data Link
71)	19700.0000-20200.0000	L	32M0G7W	Rx			SAILOR 60		Various Modulations up to 32APSK; Digital Data Link
72)	19300.0000-19700.0000	L	32M0G7W	Rx			SAILOR 60		Various Modulations up to 32APSK; Digital Data Link
73)	29500.0000-30000.0000	R	2M30G1W	Tx	54.10	26.50	SEA4012GX		Modulation and Services Digital Data Signalling
74)	29500.0000-30000.0000	R	5M00G1W	Tx	54.10	23.10	SEA4012GX		Modulation and Services Digital Data Signalling
75)	29500.0000-30000.0000	R	600KG7W	Tx	46.50	24.70	SEA4012GX		Various Modulations up to 32APSK; Digital Data Link
76)	29500.0000-30000.0000	R	6M96G7W	Tx	54.10	21.70	SEA4012GX		Various Modulations up to 32APSK; Digital Data Link
77)	29100.0000-29500.0000	R	2M30G1W	Tx	54.10	26.50	SEA4012GX		Modulation and Services Digital Data Signalling
78)	29100.0000-29500.0000	R	5M00G1W	Tx	54.10	23.10	SEA4012GX		Modulation and Services Digital Data Signalling



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79)	29100.0000-29500.0000	R	600KG7W	Tx	46.50	24.70	SEA4012GX		Various Modulations up to 32APSK; Digital Data Link
80)	29100.0000-29500.0000	R	6M96G7W	Tx	54.10	21.70	SEA4012GX		Various Modulations up to 32APSK; Digital Data Link
81)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	SEA4012GX		Various Modulations up to 32APSK; Digital Data Link
82)	19300.0000-19700.0000	L	32M0G7W	Rx			SEA4012GX		Various Modulations up to 32APSK; Digital Data Link
83)	29500.0000-30000.0000	R	2M70G1W	Tx	50.30	22.00	SEAGX60		Modulation and Services Digital Data Signalling
84)	29500.0000-30000.0000	R	5M00G1W	Tx	50.30	19.30	SEAGX60		Modulation and Services Digital Data Signalling
85)	29500.0000-30000.0000	R	600KG7W	Tx	43.30	21.50	SEAGX60		Various Modulations up to 32APSK; Digital Data Link
86)	29500.0000-30000.0000	R	6M96G7W	Tx	50.30	17.90	SEAGX60		Various Modulations up to 32APSK; Digital Data Link
87)	29100.0000-29500.0000	R	2M70G1W	Tx	50.30	22.00	SEAGX60		Modulation and Services Digital Data Signalling
88)	29100.0000-29500.0000	R	5M00G1W	Tx	50.30	19.30	SEAGX60		Modulation and Services Digital Data Signalling
89)	29100.0000-29500.0000	R	600KG7W	Tx	43.30	21.50	SEAGX60		Various Modulations up to 32APSK; Digital Data Link
90)	29100.0000-29500.0000	R	6M96G7W	Tx	50.30	17.90	SEAGX60		Various Modulations up to 32APSK; Digital Data Link
91)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	SEAGX60		Various Modulations up to 32APSK; Digital Data Link
92)	19300.0000-19700.0000	L	32M0G7W	Rx			SEAGX60		Various Modulations up to 32APSK; 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			05.0	-05.0			-9	INT GX60





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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		
2)	19700.0000-20200.0000			05.0	-05.0				INT GX60
3)	29100.0000-29500.0000			05.0	-05.0			-9	INT GX60
4)	19300.0000-19700.0000			05.0	-05.0				INT GX60
5)	29500.0000-30000.0000			05.0	-05.0			-9	SAILOR 60
6)	19700.0000-20200.0000			05.0	-05.0				SAILOR 60
7)	29100.0000-29500.0000			05.0	-05.0			-9	SAILOR 60
8)	19300.0000-19700.0000			05.0	-05.0				SAILOR 60
9)	29500.0000-30000.0000			05.0	-05.0			-9	SAILOR 100
10)	19700.0000-20200.0000			05.0	-05.0				SAILOR 100
11)	29100.0000-29500.0000			05.0	-05.0			-9	SAILOR 100
12)	19300.0000-19700.0000			05.0	-05.0				SAILOR 100
13)	19700.0000-20200.0000	0.0W	-360.0W	05.0	-05.0	000.0	-000.0		SEA4012GX
14)	29500.0000-30000.0000	0.0W	-360.0W	05.0	-05.0	000.0	-000.0	-9	SEA4012GX
15)	29100.0000-29500.0000			05.0	-05.0			-9	SEA4012GX
16)	19300.0000-19700.0000			05.0	-05.0				SEA4012GX
17)	19700.0000-20200.0000	0.0W	-360.0W	05.0	-05.0	000.0	-000.0		SEAGX60
18)	29500.0000-30000.0000	0.0W	-360.0W	05.0	-05.0	000.0	-000.0	-9	SEAGX60
19)	29100.0000-29500.0000			05.0	-05.0			-9	SEAGX60
20)	19300.0000-19700.0000			05.0	-05.0				SEAGX60
21)	29500.0000-30000.0000	0.0W	-360.0W	05.0	-05.0	000.0	-000.0	-9	EM Cobra
22)	19700.0000-20200.0000	0.0W	-360.0W	05.0	-05.0	000.0	-000.0		EM Cobra
23)	29500.0000-30000.0000			05.0	-05.0	000.0	-000.0	-9	MilliSat-W
24)	19700.0000-20200.0000			05.0	-05.0	000.0	-000.0		MilliSat-W
25)	29500.0000-30000.0000			05.0	-05.0	000.0	-000.0	-9	MilliSat-H
26)	19700.0000-20200.0000			05.0	-05.0	000.0	-000.0		MilliSat-H
27)	29500.0000-30000.0000			05.0	-05.0	000.0	-000.0	-9	MicroSat
28)	19700.0000-20200.0000			05.0	-05.0	000.0	-000.0		MicroSat
29)	29500.0000-30000.0000			05.0	-05.0			-9	JUE-60GX
30)	19700.0000-20200.0000			05.0	-05.0				JUE-60GX
31)	29100.0000-29500.0000			05.0	-05.0			-9	JUE-60GX
32)	19300.0000-19700.0000			05.0	-05.0				JUE-60GX
33)	29500.0000-30000.0000			05.0	-05.0			-9	INT GX100
34)	19700.0000-20200.0000			05.0	-05.0				INT GX100
35)	29100.0000-29500.0000			05.0	-05.0			-9	INT GX100
36)	19300.0000-19700.0000			05.0	-05.0				INT GX100



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**RADIO STATION AUTHORIZATION**

Name: ISAT US Inc.

Call Sign: E140029

Authorization Type: Modification of License

File Number: SES-MOD-20200730-00809

Non Common Carrier

Grant date: 10/09/2020

Expiration Date: 09/29/2030

**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		
37)	29500.0000-30000.0000			05.0	-05.0			-9	INTGX100N
38)	19700.0000-20200.0000			05.0	-05.0				INTGX100N
39)	29500.0000-30000.0000			05.0	-05.0			-9	JUE-100NX
40)	19700.0000-20200.0000			05.0	-05.0				JUE-100NX

**D) Points of Communications**

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

- 1) RMT6 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 2) RMT6 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 3) RMT7 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 4) RMT7 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 5) RMT3 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 6) RMT3 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 7) RMT1 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 8) RMT1 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 9) RMT2 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 10) RMT2 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 11) RMT8 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 12) RMT8 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 13) RMT9 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 14) RMT9 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 15) RMT10 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 16) RMT10 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 17) RMT11 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 18) RMT11 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 19) RMT4 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 20) RMT4 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 21) RMT5 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 22) RMT5 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 23) RMT12 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 24) RMT12 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 25) RMT13 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 26) RMT13 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)



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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)
RMT8	EM Cobra	4000	1	EM Solutions	Cobra			
Max Gains(s):		48.0 dBi @	29.5000 GHz	46.1 dBi @	20.2000 GHz	46.0 dBi @		
		19.7000 GHz	49.4 dBi @	30.0000 GHz				
Maximum total input power at antenna flange (Watts) =					16.00			
Maximum aggregate output EIRP for all carriers (dBW) =					61.40			
RMT5	INT GX100	4000	1.03	INTELLIAN	GX100			
Max Gains(s):		47.6 dBi @	29.7500 GHz	43.9 dBi @	19.9500 GHz	47.7 dBi @		
		29.5000 GHz	44.3 dBi @	20.2000 GHz	47.6 dBi @	30.0000 GHz	43.8	
		dBi @ 19.7000 GHz	47.6 dBi @	29.1000 GHz	43.6 dBi @	19.3000 GHz		
Maximum total input power at antenna flange (Watts) =					5.00			
Maximum aggregate output EIRP for all carriers (dBW) =					54.60			
RMT6	INT GX60	4000	0.65	INTELLIAN	GX60			
Max Gains(s):		43.8 dBi @	29.7500 GHz	40.5 dBi @	19.9500 GHz	44.2 dBi @		
		29.5000 GHz	43.8 dBi @	30.0000 GHz	41.1 dBi @	20.2000 GHz	39.7	
		dBi @ 19.7000 GHz	44.1 dBi @	29.1000 GHz	39.5 dBi @	19.3000 GHz		
Maximum total input power at antenna flange (Watts) =					5.00			
Maximum aggregate output EIRP for all carriers (dBW) =					50.80			
RMT12	INTGX100N	4000	1.05	INTELLIAN	GX100NX			
Max Gains(s):		47.9 dBi @	29.2000 GHz	48.2 dBi @	30.0000 GHz			
Maximum total input power at antenna flange (Watts) =					10.00			
Maximum aggregate output EIRP for all carriers (dBW) =					58.20			
RMT13	JUE-100NX	4000	1.05	JRC	JUE-100NX			
Max Gains(s):		47.9 dBi @	29.5000 GHz	48.2 dBi @	30.0000 GHz			
Maximum total input power at antenna flange (Watts) =					10.00			
Maximum aggregate output EIRP for all carriers (dBW) =					58.20			
RMT4	JUE-60GX	4000	0.65	JRC	JUE-60GX			
Max Gains(s):		39.6 dBi @	19.7000 GHz	39.9 dBi @	20.2000 GHz	43.9 dBi @		
		29.5000 GHz	43.9 dBi @	30.0000 GHz	39.9 dBi @	19.9500 GHz	43.9	
		dBi @ 29.7500 GHz	43.8 dBi @	29.1000 GHz	39.4 dBi @	19.3000 GHz		
Maximum total input power at antenna flange (Watts) =					5.00			
Maximum aggregate output EIRP for all carriers (dBW) =					50.90			



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Authorization Type: Modification of License

File Number: SES-MOD-20200730-00809

Non Common Carrier

Grant date: 10/09/2020

Expiration Date: 09/29/2030

**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)
RMT11	MicroSat	50	0.248	GetSat	MicroSat			
Max Gains(s):		31.5 dBi @	20.2000 GHz	31.8 dBi @	30.0000 GHz	32.2 dBi @		
		29.5000 GHz	33.7 dBi @	19.7000 GHz				
Maximum total input power at antenna flange (Watts) =					16.00			
Maximum aggregate output EIRP for all carriers (dBW) =					46.00			
RMT10	MilliSat-H	50	0.27	GetSat	MilliSat-H			
Max Gains(s):		34.3 dBi @	30.0000 GHz	33.9 dBi @	19.7000 GHz	33.8 dBi @		
		20.2000 GHz	32.9 dBi @	29.5000 GHz				
Maximum total input power at antenna flange (Watts) =					16.00			
Maximum aggregate output EIRP for all carriers (dBW) =					48.80			
RMT9	MilliSat-W	50	0.5	GetSat	MilliSat-W			
Max Gains(s):		38.6 dBi @	20.2000 GHz	38.3 dBi @	19.7000 GHz	35.2 dBi @		
		29.5000 GHz	35.4 dBi @	30.0000 GHz				
Maximum total input power at antenna flange (Watts) =					16.00			
Maximum aggregate output EIRP for all carriers (dBW) =					48.80			
RMT3	SAILOR 100	4000	1.03	Cobham SatCom	Sailor 100 GX			
Max Gains(s):		47.2 dBi @	30.0000 GHz	43.5 dBi @	19.7000 GHz	44.1 dBi @		
		20.2000 GHz	47.4 dBi @	29.5000 GHz	43.9 dBi @	19.9500 GHz	47.5	
		dBi @ 29.7500 GHz	47.3 dBi @	29.1000 GHz	43.3 dBi @	19.3000 GHz		
Maximum total input power at antenna flange (Watts) =					5.00			
Maximum aggregate output EIRP for all carriers (dBW) =					54.50			
RMT7	SAILOR 60	4000	0.65	COBHAM SEATEL	SAILOR GX60			
Max Gains(s):		43.6 dBi @	29.7500 GHz	40.5 dBi @	19.9500 GHz	43.7 dBi @		
		30.0000 GHz	43.6 dBi @	29.5000 GHz	40.5 dBi @	20.2000 GHz	40.5	
		dBi @ 19.7000 GHz	43.5 dBi @	29.1000 GHz	40.3 dBi @	19.3000 GHz		
Maximum total input power at antenna flange (Watts) =					5.00			
Maximum aggregate output EIRP for all carriers (dBW) =					50.70			
RMT1	SEA4012GX	4000	1	Cobham-Sea Tel	4012GX	0	0 AGL	
Max Gains(s):		47.1 dBi @	29.5000 GHz	44.0 dBi @	19.7000 GHz	43.8 dBi @		
		19.3000 GHz	47.0 dBi @	29.1000 GHz				
Maximum total input power at antenna flange (Watts) =					5.00			
Maximum aggregate output EIRP for all carriers (dBW) =					54.10			



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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)
RMT2	SEAGX60	4000	0.65	Cobham-Sea Tel	GX60	0	0 AGL	
Max Gains(s):		43.3 dBi @	29.5000 GHz	40.4 dBi @	20.2000 GHz	43.2 dBi @		
		29.1000 GHz	40.4 dBi @	19.7000 GHz	40.3 dBi @	19.3000 GHz		
Maximum total input power at antenna flange (Watts) =					5.00			
Maximum aggregate output EIRP for all carriers (dBW) =					50.30			

**F) Remote Control Point:**

RMT1	6211 GLEN CIRCLE, (SEA4012GX)	Call Sign: E120072
	LINO LAKES, ANOKA, MN 55014	
	808-469-7104	
RMT10	6211 GLEN CIRCLE, (MilliSat-H)	Call Sign: E120072
	LINO LAKES, ANOKA, MN 55014	
	808-469-7104	
RMT11	6211 GLEN CIRCLE, (MicroSat)	Call Sign: E120072
	LINO LAKES, ANOKA, MN 55014	
	808-469-7104	
RMT12	6211 GLEN CIRCLE, (Intgx100nx)	Call Sign: E120072
	LINO LAKES, ANOKA, MN 55014	
	808-638-5820	
RMT13	6211 GLEN CIRCLE, (JUE-100NX)	Call Sign: E120072
	LINO LAKES, ANOKA, MN 55014	
	808-638-5820	
RMT2	6211 GLEN CIRCLE, (SEAGX60)	Call Sign: E120072
	LINO LAKES, ANOKA, MN 55014	
	808-469-7104	



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**F) Remote Control Point:**

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RMT3	6211 GLEN CIRCLE, (SAILOR 100) LINO LAKES, ANOKA, MN 55014 808-469-7104	Call Sign: E120072
RMT4	6211 GLEN CIRCLE, (JUE-60GX) LINO LAKES, ANOKA, MN 55014 808-469-7104	Call Sign: E120072
RMT5	6211 GLEN CIRCLE, (INT GX100) LINO LAKES, ANOKA, MN 55014 808-469-7104	Call Sign: E120072
RMT6	6211 GLEN CIRCLE, (INT GX60) LINO LAKES, ANOKA, MN 55014 808-469-7104	Call Sign: E120072
RMT7	6211 GLEN CIRCLE, (SAILOR 60) LINO LAKES, ANOKA, MN 55014 808-469-7104	Call Sign: E120072
RMT8	6211 GLEN CIRCLE, (EM Cobra) LINO LAKES, ANOKA, MN 55014 808-469-7104	Call Sign: E120072
RMT9	6211 GLEN CIRCLE, (MilliSat-W) LINO LAKES, ANOKA, MN 55014 808-469-7104	Call Sign: E120072

**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions



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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:

- 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.
- 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.
- 6609 --- The licensee must comply with any pertinent limits and provisions established by the International Telecommunication Union to protect other services allocated internationally.
- 90227 --- Grant of this application and operations under this license are based upon and subject to the conditions, waivers, and findings specified in Inmarsat Mobile Networks, Order and Authorization and Declaratory Ruling, 30 FCC Rcd 2770 (Int'l Bur., 2015), and Petition for Reconsideration or Clarification, 30 FCC Rcd 7295 (Int'l Bur. 2015).
- 90229 --- The licensee's earth stations on maritime vessels authorized herein must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving a "parameter change" command until receiving an "enable transmission" command from the network control center. The network control center must monitor operation of each earth station to determine if it is malfunctioning, and each earth station on maritime vessels must self-monitor and automatically cease transmission within 100 milliseconds on detecting an operational fault that could cause harmful interference.
- 90230 --- The Commission's Ka-band Plan is waived to the extent noted herein. Operations in the 29.5-30.0 GHz and 19.7-20.2 GHz frequency bands for maritime use are permitted on a non-harmful interference basis, that is, operations must not cause harmful interference to, and must not claim protection from interference caused by any other lawfully operating station. Transmission(s) must cease immediately upon notice of any interference caused. See Rulemaking to Amend Parts 1, 2, 21, and 25 of the Commission's Rules to Redesignate the 27.5-29.5 GHz Frequency Band to Reallocate the 29.5-30.0 GHz Frequency Band, to Establish Rules and Policies for Local Multipoint Distribution Services and for Fixed Satellite Services, First Report and Order and Fourth Notice of Proposed Rulemaking, 11 FCC Rcd 19005 (1996). This waiver applies to terminals with the technical characteristics identified in this license, on both U.S. and non-U.S. registered vessels.
- 90233 --- The operation of Inmarsat-5 F2 and associated earth stations must comport with: (i) the applicable uplink limits in Section 25.138 in the frequency 29.5-30.0 GHz; (ii) the applicable downlink limits in Section 25.138 in the frequency band 19.7-20.2 GHz. These limits cannot be exceeded unless the satellite operator coordinates any non-conforming operation with the operations of U.S.-licensed GSO space stations within 6 degrees of 55° W.L. Non-conforming operation must also be coordinated with respect to operation of non-U.S.-licensed space stations within 6 degrees of 55° W.L. when communicating with U.S.-licensed earth stations pursuant to Section 25.137 of the Commission's rules, 47 C.F.R. § 25.137.



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Non Common Carrier

**Grant date:** 10/09/2020

**Expiration Date:** 09/29/2030

## H) Special and General Provisions

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

- 90234 --- 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.
- 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.
- 90589 --- Inmarsat 5F3 satellite was authorized by granted U.S. Market Access through IBFS File Nos. SES-LIC-20150402-00188 and SES-AMD-20150910-00577 (Call Sign E150028).
- 900408 --- ISAT, US is granted a waiver of the U.S. Table of Allocations, 47 CFR § 2.106, and the Commission's Ka-band Plan, see Rulemaking to Amend Parts 1, 2, 21, and 25 of the Commission's Rules to Redesignate the 27.5-29.5 GHz Frequency Band to Reallocate the 29.5-30.0 GHz Frequency Band, to Establish Rules and Policies for Local Multipoint Distribution Services and for Fixed Satellite Services, First Report and Order and Fourth Notice of Proposed Rulemaking, 11 FCC Rcd 19005 (1996). ISAT is authorized to operate with the Inmarsat 5F2 space station at the 55° W.L. orbital location using the 29.1-29.25 GHz (Earth-to-space) and 19.3-19.7 GHz (space-to-Earth) frequency bands, for maritime use in the South Atlantic Ocean Region, on a non-harmful interference basis, that is, ISAT must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating station, and must cease transmission(s) immediately upon notice of such interference. Based on the information on file with the Commission, the proposed operations do not pose a risk of interference to other users of the band.
- 900424 --- Operations of MicroSat, MilliSat-H, and MilliSat-W antennas are authorized only with the Inmarsat 5F2 and Inmarsat 5F3 Satellites.





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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 does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct 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.**