



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Current Authorization : FCC WEB Reproduction
Unofficial Copy

Name: ISAT US INC.

Call Sign: E140114
File Number: SES-MOD-20240717-01579

Authorization Type: Modification of License
Non Common Carrier Grant Date: 12/11/2024 Expiration Date: 08/11/2030

Nature of Service: Earth Station Aboard Aircraft
Fixed Satellite Service

Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	Aero 1	ABOARD AIRCRAFT IN US&P				NA	
2)	Aero 2	ABOARD AIRCRAFT CONUS & OCONUS				NA	
3)	Aero 3	ABOARD AIRCRAFT CONUS & OCONUS				NA	
4)	Aero 4	ABOARD AIRCRAFT CONUS & OCONUS				UNK	
5)	Aero 8	Aboard Aircraft CONUS & OCONUS				83	
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.							
6)	Aero 5	ABOARD AIRCRAFT CONUS & OCONUS				NA	
7)	Aero 6	ABOARD AIRCRAFT CONUS & OCONUS				UNK	
8)	Aero 7	ABOARD AIRCRAFT CONUS & OCONUS				UNK	

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 Tuesday, August 11, 2015 (3 AM Eastern Standard Time) and ending Sunday, August 11, 2030 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Thursday, December 11, 2025 (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	Polarization	Emission	Tx/Rx Mode	Max EIRP /Carrier	Max EIRP Density	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	29500.0000 - 30000.0000	R	460KG7W	T	44.60	24.00	AERO1	Various Modulations up to 32APSK; Digital Data Link	
2)	29500.0000 - 30000.0000	R	7M34G7W	T	46.00	13.40	AERO1	Various Modulations up to 32APSK; Digital Data Link	
3)	29500.0000 - 30000.0000	R	5M00G1W	T	7.00	-24.00	AERO1	Various Modulations up to 32APSK; Digital Data Link	



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4) 19700.0000 - 20200.0000	L	32M0G7W	R	0.00	0.00	AERO1	Various Modulations up to 32APSK; Digital Data Link
5) 29500.0000 - 30000.0000	R	460KG7W	T	32.60	12.00	AERO2	Various Modulations up to 32APSK; Digital Data Link
6) 29500.0000 - 30000.0000	R	7M34G7W	T	44.60	12.00	AERO2	Various Modulations up to 32APSK; Digital Data Link
7) 29500.0000 - 30000.0000	R	5M00G1W	T	7.00	-24.00	AERO2	Various Modulations up to 32APSK; Digital Data Link
8) 19700.0000 - 20200.0000	L	32M0G7W	R	0.00	0.00	AERO2	Various Modulations up to 32APSK; Digital Data Link
9) 29500.0000 - 30000.0000	R	5M00G1W	T	7.00	-24.00	AERO3	Various Modulations up to 32APSK; Digital Data Link
10) 29500.0000 - 30000.0000	R	7M34G7W	T	41.00	8.40	AERO3	Various Modulations up to 32APSK; Digital Data Link
11) 29500.0000 - 30000.0000	R	460KG7W	T	29.00	8.40	AERO3	Various Modulations up to 32APSK; Digital Data Link
12) 19700.0000 - 20200.0000	L	32M0G7W	R		0.00	AERO3	Various Modulations up to 32APSK; Digital Data Link
13) 29500.0000 - 30000.0000	R	7M34G7W	T	48.90	16.30	AERO4	Various modulation up to 32 APSK; Digital Data Link
14) 29500.0000 - 30000.0000	R	5M00G1W	T	48.90	17.90	AERO4	Various modulation up to 32 APSK; Digital Data Link
15) 29500.0000 - 30000.0000	R	460KG7W	T	38.80	18.20	AERO4	Various modulation up to 32 APSK; Digital Data Link
16) 19700.0000 - 20200.0000	L	32M0G7W	R			AERO4	Various modulation up to 32 APSK; Digital Data Link
17) 29500.0000 - 30000.0000	R	7M34G7W	T	47.00	14.40	AERO5	Various modulation up to 32 APSK; Digital Data Link
18) 29500.0000 - 30000.0000	R	5M00G1W	T	47.00	16.00	AERO5	Various modulation up to 32 APSK; Digital Data Link
19) 29500.0000 - 30000.0000	R	460KG7W	T	39.00	18.40	AERO5	Various modulation up to 32 APSK; Digital Data Link
20) 19700.0000 - 20200.0000	L	32M0G7W	R			AERO5	Various modulation up to 32 APSK; Digital Data Link
21) 29500.0000 - 30000.0000	L,R	460KG7W	T	44.60	24.00	AERO6	Various Modulations up to 32APSK; Digital Data Link
22) 29500.0000 - 30000.0000	L,R	5M00G1W	T	7.00	-24.00	AERO6	Various Modulations up to 32APSK; Digital Data Link
23) 29500.0000 - 30000.0000	L,R	7M34G7W	T	46.00	13.40	AERO6	Various Modulations up to 32APSK; Digital Data Link
24) 19700.0000 - 20200.0000	L,R	32M0G7W	R			AERO6	Various Modulations up to 32APSK; Digital Data Link
25) 29500.0000 - 30000.0000	L,R	460KG7W	T	44.50	23.90	AERO7	Various Modulations up to 32APSK; Digital Data Link
26) 29500.0000 - 30000.0000	L,R	5M00G1W	T	7.00	-24.00	AERO7	Various Modulations up to 32APSK; Digital Data Link



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27) 29500.0000 - 30000.0000	L,R	7M34G7W	T	52.20	20.46	AERO7	Various Modulations up to 32APSK; Digital Data Link
28) 19700.0000 - 20200.0000	L,R	32M0G7W	R			AERO7	Various Modulations up to 32APSK; Digital Data Link
29) 29500.0000 - 30000.0000	R	460KG7W	T	33.70	13.10	AERO8	Various Modulations up to 32APSK; Digital Data Link
30) 29500.0000 - 30000.0000	R	5M00G1W	T	7.00	-24.00	AERO8	Various Modulations up to 32APSK; Digital Data Link
31) 29500.0000 - 30000.0000	R	7M34G7W	T	50.10	17.50	AERO8	Various Modulations up to 32APSK; Digital Data Link
32) 19700.0000 - 20200.0000	H,V,L,R	32M0G7W	R			AERO8	Various Modulations up to 32APSK; Digital Data Link

C) Frequency Coordination

#	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	55.0W-55.0W		5.0 - 5.0		0.0 - 0.0		10.0	AERO1
2)	19700.0000 - 20200.0000	55.0W-55.0W		5.0 - 5.0		0.0 - 0.0			AERO1
3)	19700.0000 - 20200.0000	55.0W-55.0W		5.0 - 5.0		0.0 - 0.0			AERO2
4)	29500.0000 - 30000.0000	55.0W-55.0W		5.0 - 5.0		0.0 - 0.0		-9.0	AERO2
5)	29500.0000 - 30000.0000	0.0W-360.0W		5.0 - 5.0				-9.0	AERO3
6)	19700.0000 - 20200.0000	0.0W-360.0W		5.0 - 5.0					AERO3
7)	29500.0000 - 30000.0000	W-360.0W		5.0 - 5.0				-9.0	AERO4
8)	19700.0000 - 20200.0000	W-360.0W		5.0 - 5.0				0.0	AERO4
9)	29500.0000 - 30000.0000	W-360.0W		10.0 - 10.0				-5.5	AERO8
10)	19700.0000 - 20200.0000	W-360.0W		10.0 - 10.0					AERO8
11)	29500.0000 - 30000.0000	W-360.0W		5.0 - 5.0				-7.6	AERO5
12)	19700.0000 - 20200.0000	W-360.0W		5.0 - 5.0					AERO5
13)	29500.0000 - 30000.0000	W-360.0W		5.0 - 5.0				10.0	AERO6
14)	19700.0000 - 20200.0000	W-360.0W		5.0 - 5.0					AERO6
15)	29500.0000 - 30000.0000	W-360.0W		5.0 - 5.0				-7.6	AERO7
16)	19700.0000 - 20200.0000	W-360.0W		5.0 - 5.0					AERO7

D) Point of Communications

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

- 1) Aero 1 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 2) Aero 1 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 3) Aero 1 to INMARSAT 5F1 satellite @ 63 degrees E.L. (U. K. licensed)



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- 4) Aero 1 to HYLAS-4 (S3130) @ 33.5° W.L. (U.K.-licensed)
- 5) Aero 2 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 6) Aero 2 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 7) Aero 2 to INMARSAT 5F1 satellite @ 63 degrees E.L. (U. K. licensed)
- 8) Aero 2 to HYLAS-4 (S3130) @ 33.5° W.L. (U.K.-licensed)
- 9) Aero 3 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 10) Aero 3 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 11) Aero 3 to INMARSAT 5F1 satellite @ 63 degrees E.L. (U. K. licensed)
- 12) Aero 3 to HYLAS-4 (S3130) @ 33.5° W.L. (U.K.-licensed)
- 13) Aero 4 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 14) Aero 4 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 15) Aero 4 to INMARSAT 5F1 satellite @ 63 degrees E.L. (U. K. licensed)
- 16) Aero 4 to HYLAS-4 (S3130) @ 33.5° W.L. (U.K.-licensed)
- 17) Aero 8 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 18) Aero 8 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 19) Aero 5 to INMARSAT 5F1 satellite @ 63 degrees E.L. (U. K. licensed)
- 20) Aero 5 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 21) Aero 5 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 22) Aero 5 to HYLAS-4 (S3130) @ 33.5° W.L. (U.K.-licensed)
- 23) Aero 6 to INMARSAT 5F1 satellite @ 63 degrees E.L. (U. K. licensed)
- 24) Aero 6 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 25) Aero 6 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 26) Aero 6 to HYLAS-4 (S3130) @ 33.5° W.L. (U.K.-licensed)
- 27) Aero 7 to INMARSAT 5F1 satellite @ 63 degrees E.L. (U. K. licensed)
- 28) Aero 7 to INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
- 29) Aero 7 to INMARSAT 5F3 satellite @ 179.6 degrees E.L. degrees (U. K. licensed)
- 30) Aero 7 to HYLAS-4 (S3130) @ 33.5° W.L. (U.K.-licensed)

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
Aero 1	AERO1	4000	0.61	Honeywell	MCS 8200		0.0 AGL	
Max Gains(s):36.9 dBi @ 19.9500 GHz 36.9 dBi @ 20.2000 GHz 39.8 dBi @ 29.5000 GHz 39.8 dBi @ 29.7500 GHz 39.8 dBi @ 30.0000 GHz 36.8 dBi @ 19.7000 GHz								
Maximum total input power at antenna flange (Watts) = 12.6Maximum aggregate output EIRP for all carriers (dBW)50.8								
Aero 2	AERO2	4000	0.3	Honeywell	MCS 8000		0.0 AGL	
Max Gains(s):32.7 dBi @ 19.7000 GHz 32.8 dBi @ 19.9500 GHz 32.6 dBi @ 20.2000 GHz 37.0 dBi @ 29.5000 GHz 37.0 dBi @ 29.7500 GHz 37.0 dBi @ 30.0000 GHz								
Maximum total input power at antenna flange (Watts) = 12.0Maximum aggregate output EIRP for all carriers (dBW)47.8								
Aero 3	AERO3	50	0.3	INMARSAT	KA30			
Max Gains(s):32.5 dBi @ 19.7000 GHz 32.5 dBi @ 20.2000 GHz 37.4 dBi @ 29.5000 GHz 37.4 dBi @ 30.0000 GHz								
Maximum total input power at antenna flange (Watts) = 8.2								
Maximum aggregate output EIRP for all carriers (dBW)46.5								



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Aero 4	AERO4	4000	0.3	GET SAT	MILLISATEX
Max Gains(s):34.9 dBi @ 20.2000 GHz 35.3 dBi @ 19.7000 GHz 37.8 dBi @ 29.5000 GHz 38.2 dBi @ 30.0000 GHz					
Maximum total input power at antenna flange (Watts) = 12.0					
Maximum aggregate output EIRP for all carriers (dBW)48.9					
Aero 5	AERO5	200	0.3	SMITHS INTERCONNECT	KA5000
Max Gains(s):32.1 dBi @ 19.7000 GHz 32.1 dBi @ 20.2000 GHz 37.0 dBi @ 29.5000 GHz 37.0 dBi @ 30.0000 GHz					
Maximum total input power at antenna flange (Watts) = 10.0					
Maximum aggregate output EIRP for all carriers (dBW)47.0					
Aero 6	AERO6	4000	0.61	HONEYWELL	MCS8562
Max Gains(s):36.8 dBi @ 19.7000 GHz 36.9 dBi @ 20.2000 GHz 39.8 dBi @ 29.5000 GHz 39.8 dBi @ 30.0000 GHz 36.9 dBi @ 19.9500 GHz					
39.8 dBi @ 29.7500 GHz					
Maximum total input power at antenna flange (Watts) = 12.6Maximum aggregate output EIRP for all carriers (dBW)50.8					
Aero 7	AERO7	4000	0.46	ORBIT	GX46
Max Gains(s):37.7 dBi @ 19.7000 GHz 37.9 dBi @ 20.2000 GHz 41.2 dBi @ 30.0000 GHz 42.1 dBi @ 29.5000 GHz 37.8 dBi @ 19.9500 GHz					
41.7 dBi @ 29.7500 GHz					
Maximum total input power at antenna flange (Watts) = 12.6Maximum aggregate output EIRP for all carriers (dBW)52.2					
Aero 8	AERO8	200	0.656	THINKOM	KA2517
Max Gains(s):34.7 dBi @ 29.5000 GHz 35.0 dBi @ 30.0000 GHz 36.3 dBi @ 19.7000 GHz 36.7 dBi @ 20.2000 GHz					
Maximum total input power at antenna flange (Watts) = 40.0					
Maximum aggregate output EIRP for all carriers (dBW)50.1					

F) Remote Control

Aero 1	6211 Glen Circle Lino Lakes, Anoka, MN, 55014 8086385820	Call Sign:	E120072
Aero 2	6211 Glen Circle Lino Lakes, Anoka, MN, 55014 8086385820	Call Sign:	E120072
Aero 3	6211 Glen Circle Lino Lakes, Anoka, MN, 55014 8086385820	Call Sign:	E120072
Aero 4	6211 Glen Circle Lino Lakes, Anoka, MN, 55014 8086385820	Call Sign:	E120072
Aero 8	6211 Glen Circle Lino Lakes, Anoka, MN, 55014 8086385820	Call Sign:	E120072
Aero 5	6211 Glen Circle Lino Lakes, Anoka, MN, 55014 8086385820	Call Sign:	E120072
Aero 6	6211 Glen Circle Lino Lakes, Anoka, MN, 55014 8086385820	Call Sign:	E120072



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Aero 7 6211 Glen Circle **Call Sign:** E120072
Lino Lakes, Anoka, MN, 55014
8086385820

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 Communications Filing System (ICFS) using the "Pleadings and Comments" link on the ICFS homepage within 10 days of the change.
- 8 Licensee must notify the Commission when all earth stations under this authorization are no longer operational or when they have not been used to provide service during any continuous six-month period.
- 9662 The 17.8-20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the fixed-Satellite Services. Services within the United States over the satellite network of which this is a cooperating earth station are subject to coordination under US334 and operation of the earth station(s) authorized herein will be subject to any technical constraints resulting from this coordination. See footnote US334 of the U.S. Table of Frequency Allocations, 47 CFR § 2.106(a), (c)(334).
- 90075 Licensee is afforded 30 days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.
- 90079 ESAAs in aircraft on the ground must not transmit at elevation angles less than three degrees. There is no minimum angle of antenna elevation for ESAAs while airborne.
- 90105 Authority is granted to operate this station by remote control provided that the operator is responsible for ensuring the operations are in accordance with the terms and conditions of the license and pursuant to Section 25.271 of the Commission's rules, 47 CFR § 25.271.
- 90116 The licensee must maintain a U.S. point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. The licensee shall have available, at all times, the technical personnel necessary to perform supervision of remote station operations.
- 90118 The licensee shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.
- 90123 Operations authorized pursuant to this license are operations by U.S.-registered aircraft anywhere within the coverage area/frequency bands identified in the application for the satellites listed as points of communication. Operations authorized pursuant to this license also include operations by non-U.S.-registered aircraft within U.S. territory, including territorial waters. Authorization for operations by U.S.-registered aircraft outside U.S. territory, pursuant to this license, does not constitute a grant of access to the market in the United States under the Commission's DISCO II policies.
- 90144 The earth stations in this blanket license are operated by remote control. The remote control point is a material term of the license and may not be changed without prior authorization under Section 25.117 of the Commission's rules. Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points," DA 06-978 (rel. May 4, 2006).
- 90209 ISAT US, Inc. is granted a waiver of the Table of Frequency Allocations, Section 2.106 of the Commission's rules, and a waiver of the Ka-band 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 US, Inc. is authorized to operate in the 19.7-20.2 GHz and 29.5-30.0 GHz frequency bands on a non-harmful interference basis. ISAT US, Inc. must not cause harmful interference to any authorized radio station operating in conformance with the U.S. Table of Frequency Allocations.



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H) Special and General Provisions

- 90245 When the ESAA network is put into operation, 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, date of the license and certification that the network was put into operation and will remain operational during the license period unless the license is submitted for cancellation.
- 90246 ESAAs authorized herein must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.
- 90247 ESAAs 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 ESAA to determine if it is malfunctioning, and each ESAA must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed-satellite service network.
- 90248 Stations authorized herein must not be used to provide air traffic control communications.
- 90256 Operation of ESAAs authorized herein are subject to any requirements the Commission may adopt in any future proceeding concerning operations in the 18.3-19.3 GHz, 19.7-20.2 GHz, 28.35-29.1 GHz, and 29.5-30.0 GHz band frequencies including, but not limited to, ESAAs communicating with geostationary orbit space stations.
- 90286 Communications between ISAT US, Inc.'s ESAAs and Inmarsat-5 F1, Inmarsat-5 F2 and Inmarsat-5 F3 must be in compliance with all existing and future space station coordination agreements reached between the United Kingdom and other Administrations.
- 90287 This grant is based upon a finding that the Inmarsat 5-F2 and Inmarsat 5-F3 satellites are and will be subject to direct and effective regulation by the United Kingdom concerning orbital debris mitigation. This grant will remain effective only to the extent that launch and space operations continue to be authorized by the United Kingdom Space Agency under the United Kingdom Outer Space Act. See In the Matter of Inmarsat Mobile Networks, Inc., Order and Authorization and Declaratory Ruling, DA 15-392 (rel. March 30, 2015), IBFS File Nos. SES-LIC-20130426-00397, SES-AMD-20120823-00781, and SES- AMD-20150114-00008, and IBFS File Nos SES-LIC-20150402-00188 .
- 90288 The ESAAs are authorized, on a non-protected and non-harmful interference basis, to transmit to the following geostationary-orbit space stations: Inmarsat-5 F1 at 63° E.L., Inmarsat-5 F2 at 55° W.L. and Inmarsat-5 F3 at 179.6° W.L. using the 29.5-30.0 GHz frequency band. The aircraft earth stations authorized herein must immediately terminate operations upon notification that such operation is causing harmful interference to any other radio system lawfully operating in the 29.5-30.0 GHz frequency band. The aircraft earth stations authorized herein cannot claim protection from harmful interference from any radio system lawfully operating in the 29.5-30.0 GHz frequency band.
- 90289 The ESAAs are authorized, on a non-protected and non-harmful interference basis, to receive downlink transmissions from the following geostationary-orbit space stations: Inmarsat-5 F1 at 63° E.L., Inmarsat-5 F2 at 55° W.L. and Inmarsat-5 F3 at 179.6° W.L. in the 19.7-20.2 GHz frequency band. The aircraft earth station operation authorized herein must accept interference from any radio system lawfully operating in the 19.7-20.2 GHz frequency band.
- 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.
- 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 section 1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 CFR §§ 1.1307, 1.1308 and 1.1311)
- 90451 The Aero 1 and Aero 2 terminals, operating consistent with the antenna parameters authorized for operations as ESAA, were also authorized to operate at fixed and temporary fixed locations within the U.S. and its territories and possessions, pursuant to IBFS File No. SES-MOD-20160302-00191.
- 90535 Communications between licensee aircraft earth stations and the relevant space station must be in compliance with all existing and future space station coordination agreements reached between the space station Administration and other Administrations.



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File Number: SES-MOD-20240717-01579

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Non Common Carrier Grant Date: 12/11/2024 Expiration Date: 08/11/2030

H) Special and General Provisions

- 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).
- 90642 Authorized frequencies to communicate with the geostationary orbit space stations listed as points of communication in Section D above are subject to the Particulars of Operations and identified frequencies included in Section B above and the licensee's application.
- 90731 HYLAS-4 satellite (Call Sign S3130) was authorized by granted U.S. Market Access through IBFS File Nos. SAT-PDR20211221-00202, SAT-MPL-20220512-00050.
- 90900 Grant of the instant application is subject to the terms and condition of all associated current or future space station authorization(s) or grant(s) of market access. Operations pursuant to the instant authorization must be consistent with the associated space station(s) authorizations(s) or grant(s) of market access.
- 90926 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). Licensee must take all necessary measures to ensure that the earth stations do 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. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements.
- 90993 ISAT US, Inc.'s request for partial waiver of 25.115(g)(1)(i) and 25.218(i) of the Commission's rules, with respect to the Antenna ID Aero 3, Model Number KA30, is granted. Section 25.115(g)(1)(i) requires an applicant to provide measured data relating to the maximum co-polarized EIRP density at off-axis angles from -180 degrees to 180 degrees for the planes tangent to the GSO arc, and Section 25.218(i) references this information. Waiver is granted because the data provided is sufficient in this instance to evaluate compliance with the off-axis EIRP spectral density limits in 25.218(i), where the plot of the maximum co-polarized EIRP density at off-axis angles from -64 degrees to 64 degrees shows that the maximum co-polarized EIRP density in the plane tangent to the GSO arc is far below the relevant section 25.218 EIRP density envelope under clear sky conditions, such that it has been demonstrated that it would not exceed the envelope at off-axis angles between -180 degrees and -64 degrees and 64 degrees and 180 degrees.
- 90994 ISAT US, Inc.'s request for partial waiver of 25.115(g)(1)(i) and 25.218(i) of the Commission's rules, with respect to the Antenna ID Aero 8, Model Number KA2517, is granted. Section 25.115(g)(1) requires an applicant to provide measured data relating to the maximum co-polarized EIRP density at different off-axis angles from -180 degrees to 180 degrees for the planes tangent to the GSO arc, and Section 25.218(i) references this information. Waiver is granted because the data provided is sufficient in this instance to evaluate compliance with the off-axis EIRP spectral density limits in 25.218(i), where the plot of the maximum co-polarized EIRP density at off-axis angles from -10 degrees to 10 degrees shows that the maximum co-polarized EIRP density in the plane tangent to the GSO arc is far below the relevant section 25.218 EIRP density envelope under clear sky conditions, such that it has been demonstrated that it would not exceed the envelope at off-axis angles between -180 degrees and -10 degrees and 10 degrees and 180 degrees.
- 90995 Applicant states that the antenna performance specifications do not comply with 47 CFR § 25.125(g)(1) or 47 CFR § 25.209. Therefore, operation of these antenna is on a non-interference, unprotected basis to the extent that harmful interference would not be expected to be caused to an antenna conforming with 47 CFR § 25.209.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Current Authorization : FCC WEB Reproduction
Unofficial Copy

Name: ISAT US INC.

Call Sign: E140114
File Number: SES-MOD-20240717-01579

Authorization Type: Modification of License
Non Common Carrier Grant Date: 12/11/2024 Expiration Date: 08/11/2030

H) Special and General Provisions

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 regulates 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.