



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

**RADIO STATION
AUTHORIZATION**

Name: Inmarsat Mobile Networks, Inc.

Call Sign: E150028

Authorization Type: License

File Number: SES-LIC-20150402-00188

Non Common Carrier

Grant date: 01/26/2016

Expiration Date: 01/26/2031



Nature of Service: Fixed Satellite Service

Class of Station: Earth Stations on-board Vessels/VSAT

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	Remote 1	POR, AK, HI, CONUS (1M, 4000 UNITS)			0	NA
2)	Remote 2	POR, AK, HI, CONUS (.65M, 4000 UNITS)			0	NA
3)	Remote 3	POR, AK, HI, CONUS (1.03M, 4000 UNITS)			0	NA
4)	Remote 4	POR, AK, HI, CONUS (.65M, 4000 UNITS)			0	NA
5)	Remote 5	POR, AK, HI, CONUS (1.03M 4000 UNITS)			0	NA
6)	Remote 6	POR, AK, HI, CONUS (.65M, 4000 UNITS)			0	NA



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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 January 26, 2016 (3 AM Eastern Standard Time) and ending January 26, 2031 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is January 26, 2017 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	29500.0000-30000.0000	R	2M30G1W	Tx	54.10	26.50	Remote 1		Modulation and Services Digital Data Signaling
2)	29500.0000-30000.0000	R	5M00G1W	Tx	54.10	23.10	Remote 1		Modulation and Services Digital Data Signaling
3)	29500.0000-30000.0000	R	600KG7W	Tx	46.50	24.70	Remote 1		Various Modulations up to 32APSK; Digital Data Link
4)	29500.0000-30000.0000	R	6M96G7W	Tx	54.10	21.70	Remote 1		Various Modulations up to 32APSK; Digital Data Link
5)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Remote 1		Various Modulations up to 32APSK; Digital Data Link
6)	29500.0000-30000.0000	R	2M70G1W	Tx	50.30	22.00	Remote 2		Modulation and Services Digital Data Signaling
7)	29500.0000-30000.0000	R	5M00G1W	Tx	50.30	19.30	Remote 2		Modulation and Services Digital Data Signaling
8)	29500.0000-30000.0000	R	600KG7W	Tx	43.30	21.50	Remote 2		Various Modulations up to 32APSK; Digital Data Link
9)	29500.0000-30000.0000	R	6M96G7W	Tx	50.30	17.90	Remote 2		Various Modulations up to 32APSK; Digital Data Link
10)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Remote 2		Various Modulations up to 32APSK; Digital Data Link
11)	29500.0000-30000.0000	R	2M70G1W	Tx	54.30	26.00	Remote 3		Modulation and Services Digital Data Signaling
12)	29500.0000-30000.0000	R	5M00G1W	Tx	54.50	23.50	Remote 3		Modulation and Services Digital Data Signaling
13)	29500.0000-30000.0000	R	600KG7W	Tx	47.80	26.00	Remote 3		Various Modulations up to 32APSK; Digital Data Link
14)	29500.0000-30000.0000	R	6M96G7W	Tx	54.50	22.10	Remote 3		Various Modulations up to 32APSK; 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
15)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Remote 3		Various Modulations up to 32APSK; Digital Data Link
16)	29500.0000-30000.0000	R	2M70G1W	Tx	50.50	22.20	Remote 4		Modulation and Services Digital Data Signaling
17)	29500.0000-30000.0000	R	5M00G1W	Tx	50.90	19.90	Remote 4		Modulation and Services Digital Data Signaling
18)	29500.0000-30000.0000	R	600KG7W	Tx	44.00	22.20	Remote 4		Various Modulations up to 32APSK; Digital Data Link
19)	29500.0000-30000.0000	R	6M96G7W	Tx	50.90	18.50	Remote 4		Various Modulations up to 32APSK; Digital Data Link
20)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Remote 4		Various Modulations up to 32APSK; Digital Data Link
21)	29500.0000-30000.0000	R	1M79G1W	Tx	54.60	28.10	Remote 5		Modulation and Services Digital Data Signaling
22)	29500.0000-30000.0000	R	5M00G1W	Tx	54.50	23.50	Remote 5		Modulation and Services Digital Data Signaling
23)	29500.0000-30000.0000	R	600KG7W	Tx	47.80	26.00	Remote 5		Various Modulations up to 32APSK; Digital Data Link
24)	29500.0000-30000.0000	R	6M96G7W	Tx	54.50	22.10	Remote 5		Various Modulations up to 32APSK; Digital Data Link
25)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Remote 5		Various Modulations up to 32APSK; Digital Data Link
26)	29500.0000-30000.0000	R	2M20G1W	Tx	50.50	23.10	Remote 6		Modulation and Services Digital Data Signaling
27)	29500.0000-30000.0000	R	5M00G1W	Tx	50.90	19.90	Remote 6		Modulation and Services Digital Data Signaling
28)	29500.0000-30000.0000	R	492KG7W	Tx	44.00	23.10	Remote 6		Various Modulations up to 32APSK; Digital Data Link
29)	29500.0000-30000.0000	R	6M96G7W	Tx	50.90	18.50	Remote 6		Various Modulations up to 32APSK; Digital Data Link
30)	19700.0000-20200.0000	L	32M0G7W	Rx	0.00	0.00	Remote 6		Various Modulations up to 32APSK; Digital Data Link



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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		
1)	19700.0000-20200.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	0	Remote 1
2)	29500.0000-30000.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	-9	Remote 1
3)	19700.0000-20200.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	0	Remote 2
4)	29500.0000-30000.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	-9	Remote 2
5)	19700.0000-20200.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	0	Remote 3
6)	29500.0000-30000.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	-9	Remote 3
7)	19700.0000-20200.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	0	Remote 4
8)	29500.0000-30000.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	-9	Remote 4
9)	29500.0000-30000.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	-9	Remote 5
10)	19700.0000-20200.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	0	Remote 5
11)	19700.0000-20200.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	0	Remote 6
12)	29500.0000-30000.0000	101.6W	101.6E	05.0	05.0	000.0	000.0	-9	Remote 6

D) Points of Communications

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

- 1) Remote 1 to INMARSAT 5F3 satellite @ 179.6 E.L. (U. K. licensed)
- 2) Remote 2 to INMARSAT 5F3 satellite @ 179.6 E.L. (U. K. licensed)
- 3) Remote 3 to INMARSAT 5F3 satellite @ 179.6 E.L. (U. K. licensed)
- 4) Remote 4 to INMARSAT 5F3 satellite @ 179.6 E.L. (U. K. licensed)
- 5) Remote 5 to INMARSAT 5F3 satellite @ 179.6 E.L. (U. K. licensed)
- 6) Remote 6 to INMARSAT 5F3 satellite @ 179.6 E.L. (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)
Remote 1	Remote 1	4000	1	Cobham-Sea Tel	4012GX	0	0 AGL/ 0 AMSL	
Max Gains(s):		47.1 dBi @	29.5000 GHz	44.0 dBi @	19.7000 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)
Remote 2	Remote 2	4000	0.65	Cobham-Sea Tel	GX60	0	0 AGL/ 0 AMSL	
Max Gains(s):		43.3 dBi @	29.5000 GHz	40.4 dBi @	20.2000 GHz			
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						50.30		
Remote 3	Remote 3	4000	1.03	Cobham SatCom	Sailor 100 GX	0	0 AGL/ 0 AMSL	
Max Gains(s):		47.5 dBi @	29.7500 GHz	43.9 dBi @	19.9500 GHz	47.4 dBi @		
		29.5000 GHz	44.1 dBi @	20.2000 GHz	43.5 dBi @	19.7000 GHz	47.2	
		dBi @	30.0000 GHz					
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						54.50		
Remote 4	Remote 4	4000	0.65	JRC	JUE-60GX	0	0 AGL/ 0 AMSL	
Max Gains(s):		43.9 dBi @	30.0000 GHz	43.9 dBi @	29.7500 GHz	39.9 dBi @		
		19.9500 GHz	43.9 dBi @	29.5000 GHz	39.9 dBi @	20.2000 GHz	39.6	
		dBi @	19.7000 GHz					
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						50.90		
Remote 5	Remote 5	4000	1.03	Intellian	GX100	0	0 AGL/ 0 AMSL	
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	43.8 dBi @	19.7000 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		
Remote 6	Remote 6	4000	0.65	Intellian	GX60	0	0 AGL/ 0 AMSL	
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					
Maximum total input power at antenna flange (Watts) =						5.00		
Maximum aggregate output EIRP for all carriers (dBW) =						50.80		

F) Remote Control Point:

Remote 1 6211 Glen Circle
 Lino Lakes, Anoka, MN 55014
 808.469.7104

Call Sign:



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F) Remote Control Point:

Remote 2	6211 Glen Circle Lino Lakes, Anoka, MN 55014 808.469.7104	Call Sign:
Remote 3	6211 Glen Circle Lino Lakes, Anoka, MN 55014 808.469.7104	Call Sign:
Remote 4	6211 Glen Circle Lino Lakes, Anoka, MN 55014 808.469.7104	Call Sign:
Remote 5	6211 Glen Circle Lino Lakes, Anoka, MN 55014 808.469.7104	Call Sign:
Remote 6	6211 Glen Circle Lino Lakes, Anoka, MN 55014 808.469.7104	Call Sign:

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:

1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.

1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.



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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:

- 2300 --- Authority is granted to operate this station by remote control provided that: (1) the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).
- 5208 --- The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- 6609 --- The licensee must comply with any pertinent limits and provisions established by the International Telecommunication Union to protect other services allocated internationally.
- 6613 --- The licensee must maintain the following records for each antenna on maritime vessels: a record of the ship location (i.e., latitude and longitude), transmit frequency, channel bandwidth and satellite used. These records shall be time annotated and maintained for a period of not less than 1 year. Records will be obtained at time intervals of no greater than every 20 minutes while the antenna is transmitting. The licensee will make this data available upon request to a coordinator, fixed system operator, fixed satellite system operator, or the Commission within 24 hours of the request.
- 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.
- 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.
- 90228 --- The licensee's earth stations on maritime vessels 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.



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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:

- 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.
- 90232 --- The licensee must submit to the Commission a yearly report indicating the number of earth stations actually brought into service under its blanket licensing authority. The annual report is due to the Commission no later than the first day of April of each year and shall indicate the deployment figures for the preceding calendar year. See 47 C.F.R. § 25.145(f)(1)(iv)(2).
- 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.
- 90277 --- Licensees request for a waiver of Section 25.138, relating to the antenna pattern information provided for certain antenna types, is GRANTED. The licensee has submitted sufficient information to determine the licensee's conformance with the off-axis EIRP spectral density limits in the requested spectrum.
- 90278 --- Licensee must coordinate its space-to-Earth operations in the 19.7-20.2 GHz frequency bands with the U.S. Federal Systems, including Federal operations to earth stations in foreign countries, in accordance with footnote US334 to the U.S. Table of Frequency Allocations, 47 C.F.R. § 2.106
- 90281 --- The operation of the Inmarsat-5 F3 space station and associated earth stations must comport with (i) the applicable uplink limits in Section 25.138 in the frequency 29.5-30.0 GHz; and (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 179.6° E.L. Non-conforming operations must also be coordinated with respect to operation of non-U.S. licensed space stations within 6 degrees of 179.6° E.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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A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 90282 --- This grant is based upon the finding that Inmarsat is and will be subject to direct and effective regulation by the United Kingdom concerning orbital debris mitigation. Accordingly, Inmarsat's request for a waiver of Section 25.283(c) is unnecessary. This grant will remain effective only to the extent that launch and space operations are authorized by the United Kingdom Space Agency under the United Kingdom Outer Space Act.
- 90283 --- Transmissions between earth stations under call sign E150028 and the Inmarsat-5 F3 space station must comply with existing and future coordination agreements reached between the United Kingdom and other Administrations, including the United Kingdom and the United States.
- 90285 --- Operations in international waters and in territorial waters of other countries must be in compliance with the applicable laws, regulations, and licensing procedures of other countries, as well as with the conditions of this authorization.
- 90290 --- Inmarsat is granted U.S. market access to operate the Inmarsat-5 F3 satellite at the 179.6° E.L. orbital location in the 19.7-20.2 GHz and 29.5-30.0 GHz frequency bands.



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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.