



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Inmarsat Inc.

Call Sign: KA25

Authorization Type: Modification of License

File Number: SES-MFS-20141003-00787

Non Common Carrier

Grant date: 01/13/2015

Expiration Date: 01/10/2018

Nature of Service: Fixed Satellite Service

Class of Station: Fixed Earth Stations

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	P.O. BOX 698 58-350, KAMEHAMEHA HWY HALEIWA, HI 96712	21°40'14.6"N	158°2'3.1"W	144.8	83

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning January 10, 2003 (3 AM Eastern Standard Time) and ending January 10, 2018 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is January 13, 2016 (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)	6538.5500-6558.5500	L,R	20M0X2D	Tx	85.00	48.00	1		NAVIGATIONAL CARRIER via 4F1 and 4F3
2)	6532.5200-6536.5200	L,R	4M00X2D	Tx	85.00	55.00	1		NAVIGATIONAL CARRIER via 4F1 and 4F3
3)	6425.0000-6575.0000	H,V,L,R	200KG7D	Tx	80.70	63.70	1		DIGITAL DATA
4)	6425.0000-6575.0000	H,V,L,R	750HG7D	Tx	63.70	63.70	1		DIGITAL DATA
5)	6425.0000-6575.0000	L,R	2K50G1D	Tx	59.60	61.64	1		Packet-switched data
6)	6425.0000-6575.0000	L,R	2K50G1D	Tx	61.00	63.04	1		Packet-switched data
7)	6425.0000-6575.0000	L,R	10K0G1D	Tx	63.70	59.72	1		Circuit-switched data
8)	6425.0000-6575.0000	L,R	5K00G1D	Tx	60.70	59.73	1		Circuit-switched data
9)	6425.0000-6575.0000	L,R	17K5G1E	Tx	63.70	57.29	1		Circuit-switched voice



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10)	6425.0000-6575.0000	L, R	45K0G7D	Tx	65.50	55.50	1		Packet-switched data and ISDN
11)	6425.0000-6575.0000	L, R	200KG7D	Tx	80.70	63.70	1		DIGITAL DATA/Feeder Link & AFC via 4F1 and 4F3
12)	6425.0000-6575.0000	L, R	750HG7D	Tx	63.70	63.70	1		DIGITAL DATA/Feeder Link & AFC via 4F1 and 4F3
13)	6425.0000-6475.0000	L, R	5K00G1D	Tx	58.60	57.63	1		Packet-switched data
14)	6390.3000-6425.0000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
15)	6390.3000-6425.0000	L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
16)	6350.6000-6360.0000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
17)	6338.4000-6340.3000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
18)	6338.0000-6342.0000	L, R	1M40F2D	Tx	77.00	53.50	1		DIGITAL (EMERGENCY) DATA/TTAC
19)	6338.0000-6342.0000	L, R	1M40F2D	Tx	89.00	65.50	1		DIGITAL (EMERGENCY) DATA/TTAC
20)	6338.0000-6342.0000	L, R	1M40F3X	Tx	89.00	65.50	1		DIGITAL (EMERGENCY) DATA/TTAC
21)	6338.0000-6342.0000	L, R	1M40F2D	Tx	69.00	45.50	1		DIGITAL (ON-STATION) DATA/TTAC
22)	6338.0000-6342.0000	L, R	1M40F3X	Tx	69.00	45.50	1		DIGITAL (ON-STATION) DATA/TTAC
23)	6338.0000-6342.0000	L, R	1M40F3X	Tx	77.00	53.50	1		DIGITAL DATA /TTAC (ON-STATION)
24)	6242.0000-6308.1000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
25)	6172.0000-6178.0000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		COMMAND/TTC&M
26)	6172.0000-6178.0000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TRACKING, TELEMETRY AND RANGING CARRIER
27)	6145.7000-6189.5000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER



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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
28)	6098.6000-6115.4000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
29)	6027.1000-6088.3000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
30)	5990.0000-5996.8000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
31)	5925.0000-6425.0000	H, V, L, R	1M50F3X	Tx	93.00	67.30	1		TEST/TTC&M
32)	5925.0000-5930.0000	H, V, L, R	800KFXD	Tx	93.00	70.00	1		TTC&M COMMAND AND RANGING CARRIER
33)	5850.0000-5925.0000	L, R	1M50F3X	Tx	93.00	67.30	1		TEST/TTC&M
34)	3947.0000-3953.0000	H, V, L, R	800KGXD	Rx			1		TELEMETRY/TTC&M
35)	3945.0000-3955.0000	H, V, L, R	200KG7D	Rx			1		DIGITAL DATA
36)	3945.0000-3955.0000	H, V, L, R	750HG7D	Rx			1		DIGITAL DATA
37)	3945.0000-3955.0000	L, R	200KG7D	Rx			1		DIGITAL DATA/TTAC
38)	3945.0000-3955.0000	L, R	750HG7D	Rx			1		DIGITAL DATA/TTAC
39)	3700.0000-4200.0000	H, V, L, R	1M50F3X	Rx			1		TEST/TTC&M
40)	3700.0000-4200.0000	H, V, L, R	800KFXD	Rx			1		TRACKING, TELEMETRY AND RANGING CARRIER
41)	3625.0000-3700.0000	L, R	1M50F3X	Rx			1		TEST/TTC&M
42)	3600.0000-3700.0000	H, V, L, R	200KG7D	Rx			1		DIGITAL DATA
43)	3600.0000-3700.0000	H, V, L, R	750HG7D	Rx			1		DIGITAL DATA
44)	3600.0000-3700.0000	L, R	2K50G1D	Rx			1		Packet-switched data
45)	3600.0000-3700.0000	L, R	2K50G1D	Rx			1		Packet-switched data
46)	3600.0000-3700.0000	L, R	5K00G1D	Rx			1		Packet-switched data
47)	3600.0000-3700.0000	L, R	10K0G1D	Rx			1		Circuit-switched data
48)	3600.0000-3700.0000	L, R	5K00G1D	Rx			1		Circuit-switched data
49)	3600.0000-3700.0000	L, R	17K5G1E	Rx			1		Circuit-switched voice



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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
50)	3600.0000-3700.0000	L, R	45K0G7D	Rx			1		Packet-switched data and ISDN
51)	3600.0000-3700.0000	H, V, L, R	200KG7D	Rx			1		DIGITAL DATA/Feeder Link & AFC via 4F1 & 4F3
52)	3600.0000-3700.0000	H, V, L, R	750HG7D	Rx			1		DIGITAL DATA/Feeder Link & AFC via 4F1 & 4F3
53)	1626.5000-1660.5000	H, V, L, R	100KN0N	Tx	41.00	41.00	1		UNMODULATED CONTINUOUS WAVE PILOT CARRIERS
54)	1626.5000-1660.5000	R	100KN0N	Tx	41.00	41.00	1		Unmodulated continuous wave pilot carriers/Automatic Frequency compensation (AFC) via 4F1 & 4F3
55)	1525.0000-1559.0000	H, V, L, R	100KN0N	Rx			1		UNMODULATED CONTINUOUS WAVE PILOT CARRIERS
56)	1525.0000-1559.0000	R	100KN0N	Rx			1		Unmodulated continuous wave pilot carriers/Automatic Frequency compensation (AFC) via 4F1 & 4F3

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)	6172.0000-6178.0000	83.0W	-233.0W	05.2	-05.3	095.6	-264.3	30.4	1
2)	5850.0000-6425.0000	83.0W	-233.0W	05.2	-05.3	095.6	-264.3	30.4	1
3)	3947.0000-3950.0000	83.0W	-233.0W	05.2	-05.3	095.6	-264.3		1
4)	3625.0000-4200.0000	83.0W	-233.0W	05.2	-05.3	095.6	-264.3		1
5)	3700.0000-4200.0000	0.0W	-0.0W	05.0	-05.0	000.0	-360.0		1
6)	6172.0000-6178.0000	0.0W	-0.0W	05.0	-05.0	000.0	-360.0	15.3	1
7)	6242.0000-6808.1000	0.0W	-0.0W	05.0	-05.0	000.0	-360.0	15.3	1
8)	6145.7000-6189.5000	0.0W	-0.0W	05.0	-05.0	000.0	-360.0	15.3	1
9)	6098.6000-6115.4000	0.0W	-0.0W	05.0	-05.0	000.0	-360.0	15.3	1
10)	6027.1000-6088.3000	0.0W	-0.0W	05.0	-05.0	000.0	-360.0	15.3	1



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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		
11)	5990.0000-5996.8000	0.0W	0.0W	05.0	-05.0	000.0	-360.0	15.3	1
12)	5925.0000-5930.0000	0.0W	0.0W	05.0	-05.0	000.0	-360.0	15.3	1
13)	6338.4000-6340.3000	0.0W	0.0W	05.0	-05.0	000.0	-360.0	15.3	1
14)	6390.3000-6425.0000	0.0W	0.0W	05.0	-05.0	000.0	-360.0	15.3	1
15)	6350.6000-6360.0000	0.0W	0.0W	05.0	-05.0	000.0	-360.0	15.3	1
16)	1525.0000-1559.0000			05.0	-05.0				1
17)	3600.0000-3700.0000			05.0	-05.0				1
18)	3945.0000-3955.0000			05.0	-05.0				1
19)	1626.5000-1660.5000			05.0	-05.0			-4.8	1
20)	6425.0000-6575.0000			05.0	-05.0			15.3	1
21)	1525.0000-1559.0000	97.0W	-98.0W	05.0	-05.0		-360.0		1
22)	3600.0000-3700.0000	97.0W	-98.0W	05.0	-05.0		-360.0		1
23)	1626.5000-1660.5000	97.0W	-98.0W	05.0	-05.0		-360.0	-4.8	1
24)	6425.0000-6575.0000	97.0W	-98.0W	05.0	-05.0		-360.0	15.3	1
25)	1626.5000-1660.5000	143.0E	-144.0E	05.0	-05.0		-360.0	-4.8	1
26)	6425.0000-6575.0000	143.0E	-144.0E	05.0	-05.0		-360.0	15.3	1
27)	1525.0000-1559.0000	143.0E	-144.0E	05.0	-05.0		-360.0		1
28)	3600.0000-3700.0000	143.0E	-144.0E	05.0	-05.0		-360.0		1

D) Points of Communications

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

- 1) 1 to INTELSAT POR @ 174.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 2) 1 to INTELSAT POR @ 180.0 E.L. (U.S.-licensed)
- 3) 1 to INTELSAT POR @ 176.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 4) 1 to New Skies Satellite, N.V. 513 @ 183.0 E.L. (Netherlands-licensed) (Non-U.S.-licensed)
- 5) 1 to Permitted Space Station List
- 6) 1 to INTELSAT POR @ 178.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 7) 1 to INTELSAT POR @ 157.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 8) 1 to INMARSAT 4F3 satellite(s) @ 98 degrees W.L. (United Kingdom-licensed)
- 9) 1 to INMARSAT 4F1 satellite(s) @ 143.5 degrees E.L. (United Kingdom-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)
1	1	1	19	TIW (CFPA19M)	19M	144.8	20.1 AGL/ 164.9 AMSL	
Max Gains(s):		55.6 dBi @	3.9500 GHz	59.2 dBi @	6.1750 GHz	45.7 dBi @		
		1.6430 GHz						
Maximum total input power at antenna flange (Watts) =					2,400.00			
Maximum aggregate output EIRP for all carriers (dBW) =					93.00			

F) Remote Control Point:

1

Call Sign: KA25

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:

198 --- This emission is not authorized for communications with the INMARSAT-4F1 or INMARSAT-4F3 satellites.

216 --- Operations in the 1544-1545/1645.5-1646.5 MHz frequency bands ARE LIMITED to distress and safety communications, in accordance with International Footnotes 5.356 and 5.375 of the ITU Radio Regulations.

293 --- Operations via the Inmarsat 4F3 satellite using a north-south inclination of as much as three degrees ARE GRANTED, conditioned on operations of the 4F3 complying with the inclined orbit requirements set forth in Sections 25.280(b)(1)-(3) of the Commission's rules.

294 --- Authority IS GRANTED pursuant to Section 25.210(j) of the Commission's rules, to permit operations of earth stations with the Inmarsat 4F1 satellite, maintained at ±.10 degree of the 143.5° E.L., subject to the condition that this waiver and the operations it permits shall terminate in the event that a satellite is launched into a location such that its stationkeeping volume would overlap the Inmarsat 4F1 satellite's ± 0.10 degree stationkeeping volume, but would not overlap the Inmarsat 4F1 satellite's ±0.05° degree stationkeeping volume, unless Inmarsat has successfully coordinated its physical operations with those of the other spacecraft.

295 --- Operations via the Inmarsat 4F1 satellite using a north-south inclination of as much as three degrees ARE GRANTED, conditioned on operations of the 4F1 complying with the inclined orbit requirements set forth in Sections 25.280(b)(1)-(3) of the Commission's rules.



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- 296 --- Until such time that the operations in the 3600-3700 and 6425-6575 MHz bands over the INMARSAT 4F1 satellite network have been coordinated with adjacent satellite operators within 6 degrees of 143.5 E.L., operations in the 3600-3700 and 6425-6575 MHz bands in communication with the INMARSAT 4F1 satellite (1) shall not claim protection from U.S. services provided by U.S. authorized satellite networks that are compliant with the Commission's two-degree spacing rules; (2) shall not cause harmful interference to, nor shall operators accessing these satellite networks claim protection from, United States-authorized services that are compliant with the Commission's two-degree spacing rules and provided over non-United States authorized satellite networks; (3) and shall cease immediately upon notification of harmful interference. Complaints of all radio interference shall be forwarded immediately to the Commission in writing.
- 297 --- Operations in the 1525-1559 MHz and 1626.5-1660.5 MHz frequency bands shall have the following minimum set of capabilities to ensure compliance with Footnotes 5.357A, 5.353A, US308, and US315 to Section 2.106 of the Commission's rules, 47 C.F.R. 2.106:
- (1) All Land Earth Station (LES) transmissions to mobile earth stations (MESs) shall have a priority assigned to them that preserves the priority and preemptive access given to maritime distress and safety communications.
 - (2) The LES shall recognize the priority of calls to and from MES and make channel assignments taking into account the priority access that is given to maritime distress and safety communications.
 - (3) The LES shall be capable of receiving the MES identification number when transmitted and verifying that it is an authorized user of the system to prohibit unauthorized access.
 - (4) The LES shall be capable of transmitting channel assignment commands to the MESs.
 - (5) The communications channels used between the LES and the MES shall have provision for signalling within the voice/data channel, for an MES, which does not continuously monitor the LES signalling channel during the time of a call.
 - (6) The LES shall transmit periodic control signalling signals to MES, which do not continuously monitor the LES signalling channel.
 - (7) The LES shall automatically inhibit all transmissions to MESs to which it is not transmitting a signalling channel or signalling within the communications channel.
 - (8) The LES shall be capable of transmitting channel-shut-off commands to the MESs on signalling or communications channels.
 - (9) Each LES shall be capable of interrupting, and if necessary, preempting ongoing routine traffic from an MES in order to complete a maritime distress, urgency or safety call to that particular MES.
 - (10) Each LES shall be capable of automatically turning off one or more of its associated channels in order to complete a maritime distress, urgency or safety call.
- 307 --- This authorization is 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.



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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:

336 --- Inmarsat's request for a waiver of Section 25.202(g) is GRANTED. Section 25.202(g) requires "telemetry, tracking, and telecommand (TT&C) functions for U.S. domestic satellites shall be conducted at either or both edges of the allocated band(s). Frequencies, polarization, and coding shall be selected to minimize interference into other satellite networks and within their own satellite system." This waiver is based on the following findings:

(a) the Inmarsat 4F1 and 4F3 spacecraft have been coordinated with adjacent operators to allow TT&C in these bands;

(b) altering current coordination agreements for these and adjacent locations would be unduly disruptive of ongoing operations;

(c) the Inmarsat 4FI and 4F3 spacecraft have been placed into operation and the TT&C frequencies upon which they rely cannot be altered. Inmarsat states that the design of the Inmarsat 4 spacecraft was completed in 2001, before it anticipated performing TT&C operations for these spacecraft in the U.S.

341 --- Grant of Intelsat's waiver of 25.202(g) is subject to the following conditions:

(a) Inmarsat must coordinate its operations with space stations operating within 6 degrees of the Inmarsat 4F1 and 4F3 space stations.

(b) Notwithstanding the International Coordination Status, Inmarsat's operations must be on non-interference basis, i.e., Inmarsat may not cause harmful interference to, or claim protection from, any authorized space stations operating in the conventional C-band frequencies, and shall cease operations immediately upon notification of such interference.

(c) In the event Inmarsat is notified of interference, it may request special temporary authority to operate TT&C under an alternate plan.

(d) Within 90 days of the grant of this authorization, Inmarsat must file with the Commission a comprehensive plan detailing how it will protect other authorized operators using the C-band frequencies. This plan should specify Inmarsat's power levels, and include a list of all parties with which Inmarsat has coordination agreements.

(e) Inmarsat must accommodate future space station and earth station networks that are compliant with Section 25.202(g).

(f) The uplink antenna sizes for this earth station must be no less than 16 meters.

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.



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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:

- 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.
- 2610 --- No harmful interference shall be caused by the operation of this station to other lawfully operated radio stations and operation of this station must be terminated immediately upon notification of harmful interference.
- 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
- 5216 --- All operations shall be on a non-common carrier basis.
- 5738 --- This authorization is subject to the conditions and terms set forth in the Commission's Order and Authorization, FCC 99-210, released August 6, 1999, and Memorandum Opinion and Order, FCC 01-107, released March 29, 2001, and New Skies Satellites N.V., Petition for Declaratory Ruling, Order, DA 01-513 (Int'l Bureau, Satellite and Radiocommunication Division, released Mar. 29, 2001)
- 5930 --- Operations of this station with any earth station antenna angle between 0 and 360 degrees in azimuth (with respect to true north) and above 5 degrees in elevation are authorized during launch & early orbit phase (LEOP) operations only, provided such operations do not cause any harmful interference to any other lawfully operated radio station.
- 5959 --- The extended C-band frequencies 5850-5925 MHz and 3625-3700 MHz are not permitted with ALSAT-designated satellites.
- 6627 --- Authority IS GRANTED, pursuant to Section 25.210(j) of the Commission's rules, 47 C.F.R. § 25.210(j), to permit operations of earth stations with the Inmarsat 4F3 satellite maintained at ± 0.10 degree of the 98° W.L. orbital location, subject to the condition that this waiver shall terminate in the event that a satellite is launched into a location such that its station keeping volume would overlap the Inmarsat 4F3 satellite's ± 0.10 degree station keeping volume, but would not overlap the Inmarsat 4F3 satellite's ± 0.05 degree station keeping volume, unless Inmarsat has successfully coordinated its physical operations with those of the other spacecraft.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Inmarsat Inc.

Call Sign: KA25

Authorization Type: Modification of License

File Number: SES-MFS-20141003-00787

Non Common Carrier

Grant date: 01/13/2015

Expiration Date: 01/10/2018

H) Special and General Provisions

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

- 15822 --- The 3600-3650 MHz band is shared on a co-primary basis in the U.S. and Possessions with Federal Government radiolocation systems. Unacceptable interference may be caused to this earth station from radiolocation systems, including high-powered, highly mobile, shipborne and airborne radar transmitters, operating in the frequency band. Consistent with the applicant's EMC analysis (as required by US245 and based on the NTIA TR-99-361 Report, Technical Characteristics of Radiolocation Systems operating in the 3.1-3.7 GHz Band and Procedures for assessing EMC with Fixed Earth Station Receivers (available at <http://www.ntia.doc.gov/osmhome/reports.html>), the licensee accepts this potential for unacceptable interference. In the case that out-of-band interference does occur, the licensee is further aware that use of a RF filter ahead of the low noise amplifier (LNA) will limit potential out-of-band interference to its receiving earth station.
- 15823 --- The 5850-5925 MHz band is shared in the U.S. and Possessions on a co-primary basis with Federal Government radiolocation systems. Unacceptable interference may be caused to this earth station's communication links from radiolocation systems, including high-powered land-based transportable and shipborne radar transmitters, operating in the frequency band in accordance with footnote G2. (See, e.g., NTIA Report Federal Radar Spectrum Requirements, (<http://www.ntia.doc.gov/osmhome/reports/ntia00-40/ntia00-40.pdf>), NTIA Report 83-115, Spectrum Resource Assessment in the 5650-5925 MHz Band (http://www.fcc.gov/ib/srd/fedreg_ntiareport.html), and FCC Fifth Notice of Inquiry in Preparation for a General World Administrative Conference in 1979 (Docket No. 20271; FCC 77-349)). As required by US245, the earth station licensee is aware of the EMC environment and this sharing situation with the radiolocation service and accepts the potential for unacceptable interference.
- 15859 --- The 3650-3700 MHz band is shared on a co-primary basis in three Federal Government radiolocation systems identified in US348. Unacceptable interference may be caused to this earth station from these three radiolocation systems operating in the frequency band. Consistent with the applicant's EMC analysis (as required by US348 and based on the NTIA TR-99-361 Report, Technical Characteristics of Radiolocation Systems operating in the 3.1-3.7 GHz Band and Procedures for assessing EMC with Fixed Earth Station Receivers (available at <http://www.ntia.doc.gov/osmhome/reports.html>), the licensee accepts this potential for unacceptable interference from the three stations identified in US348. In the case that out-of-band interference does occur, the licensee is further aware that use of a RF filter ahead of the low noise amplifier (LNA) will limit potential out-of-band interference to its receiving earth station.



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Non Common Carrier

Grant date: 01/13/2015

Expiration Date: 01/10/2018

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.