



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Honeywell International Inc.

Call Sign: E020074

Authorization Type: Modification of License

File Number: SES-MOD-20151223-00960

Non Common Carrier

Grant date: 03/24/2016

Expiration Date: 03/07/2018



Nature of Service: Mobile 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)	1	25,000 INMARSAT D(D+ and M2M) half duplex METs throughout in U.S. Conus,				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 March 7, 2003 (3 AM Eastern Standard Time) and ending March 7, 2018 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is March 24, 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)	1626.5000-1645.5000	R	2K50F1D	Tx	9.00	9.00	1		2 level FSK, 256Hz tone spacing, symbol rates
2)	1525.0000-1544.0000	R	2K50F1D	Rx			1		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 sysmbols/sec or Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
3)	1626.5000-1645.5000	R	2K50F1D	Tx	9.00	9.00	2		2 level FSK, 256Hz tone spacing, symbol rates



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4)	1525.0000-1544.0000	R	2K50F1D	Rx			2		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
5)	1626.5000-1645.5000	R	2K50F1D	Tx	9.00	9.00	3		2 level FSK, 256Hz tone spacing, symbol rates
6)	1525.0000-1544.0000	R	2K50F1D	Rx			3		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
7)	1626.5000-1645.5000	R	2K50F1D	Tx	9.00	9.00	4		2 level FSK, 256Hz tone spacing, symbol rates
8)	1525.0000-1544.0000	R	2K50F1D	Rx			4		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
9)	1626.5000-1645.5000	R	2K50F1D	Tx	9.00	9.00	5		2 level FSK, 256Hz tone spacing, symbol rates
10)	1525.0000-1544.0000	R	2K50D1D	Rx			5		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.
11)	1626.5000-1645.5000	R	2K50F1D	Tx	9.00	9.00	6		2 level FSK, 256Hz tone spacing, symbol rate 16 symbols/sec
12)	1525.0000-1544.0000	R	2K50F1D	Rx			6		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate: 16 symbols/sec.



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13)	1626.5000-1645.5000	R	2K50F1D	Tx	9.00	9.00	7		2 level FSK, 256Hz tone spacing, symbol rate 16 symbols/sec
14)	1525.0000-1544.0000	R	2K50F1D	Rx			7		Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbols/sec or Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate
15)	1626.5000-1645.5000	R	2K50F1D	Tx	6.00	6.00	8		2-ary FSK, 256Hz tone spacing, symbol rate 128 symbol/sec max.
16)	1525.0000-1544.0000	R	2K50F1D	Rx			8		Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate 16 symbol/sec.
17)	1626.5000-1645.5000	R	2K50F1D	Tx	6.00	6.00	9		2-ary FSK, 256Hz tone spacing, symbol rate 128 symbol/sec max.
18)	1525.0000-1544.0000	R	2K50F1D	Rx			9		Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate 16 symbol/sec.

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)	1626.5000-1645.5000			05.0-90.0		360.0-360.0		9	1
2)	1525.0000-1544.0000			05.0-90.0		360.0-360.0			1
3)	1626.5000-1645.5000			05.0-90.0		360.0-360.0		9	2
4)	1525.0000-1544.0000			05.0-90.0		360.0-360.0			2
5)	1626.5000-1645.5000			05.0-90.0		360.0-360.0		9	3
6)	1525.0000-1544.0000			05.0-90.0		360.0-360.0			3
7)	1626.5000-1645.5000			05.0-05.0		360.0-360.0		9	3
8)	1525.0000-1544.0000			05.0-05.0		360.0-360.0			3
9)	1626.5000-1645.5000			05.0-05.0		360.0-360.0		9	4
10)	1525.0000-1544.0000			05.0-05.0		360.0-360.0			4



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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)	1626.5000-1645.0000			05.0-90.0		360.0-360.0		9	5
12)	1525.0000-1544.0000			05.0-90.0		360.0-360.0		0	5
13)	1626.0000-1645.0000			05.0-90.0		360.0-360.0		9	6
14)	1525.0000-1544.0000			05.0-90.0		360.0-360.0		0	6
15)	1626.5000-1645.5000			05.0-90.0		360.0-360.0		9	7
16)	1525.0000-1544.0000			05.0-90.0		360.0-360.0			7
17)	1626.5000-1645.5000			05.0-90.0		360.0-360.0		6	8
18)	1525.0000-1544.0000			05.0-90.0		360.0-360.0			8
19)	1626.5000-1645.5000			05.0-90.0		360.0-360.0		6	9
20)	1525.0000-1544.0000			05.0-90.0		360.0-360.0			9

D) Points of Communications

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

1) 1 to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band

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	25000	0.11	JRC (Size of MET: 121mm x 121mm x 41mm)	JUE-610 DT		0 AMSL	167
Max Gains(s): 1.5 dBi @ 1.5000 GHz 6.5 dBi @ 1.6000 GHz								
Maximum total input power at antenna flange (Watts) = 1.80								
Maximum aggregate output EIRP for all carriers (dBW) = 9.00								
1	2		0.11	SKYWAVE	DMR-200		0 AMSL	167
Max Gains(s): 1.5 dBi @ 1.5000 GHz 6.5 dBi @ 1.6000 GHz								
Maximum total input power at antenna flange (Watts) = 1.80								
Maximum aggregate output EIRP for all carriers (dBW) = 9.00								



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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	3		0.11	SATAMATICS	SAT-101			167
Max Gains(s): 1.5 dBi @ 1.5000 GHz 5.3 dBi @ 1.6000 GHz								
Maximum total input power at antenna flange (Watts) = 1.00								
Maximum aggregate output EIRP for all carriers (dBW) = 9.00								
1	4		0.11	SATAMATICS	SAT-201			167
Max Gains(s): 1.5 dBi @ 1.5000 GHz 5.3 dBi @ 1.6000 GHz								
Maximum total input power at antenna flange (Watts) = 1.00								
Maximum aggregate output EIRP for all carriers (dBW) = 9.00								
1	5	1	0.11	SATMATICS	SAT 200/202			
Max Gains(s): 1.5 dBi @ 1.5000 GHz 5.3 dBi @ 1.6000 GHz								
Maximum total input power at antenna flange (Watts) = 1.00								
Maximum aggregate output EIRP for all carriers (dBW) = 9.00								
1	6	1	0.03	EMS Global Tracking	SAT-232			
Max Gains(s): 1.5 dBi @ 1.5000 GHz 5.3 dBi @ 1.6000 GHz								
Maximum total input power at antenna flange (Watts) = 1.00								
Maximum aggregate output EIRP for all carriers (dBW) = 9.00								
1	7	1	0.08	SPECTRUM CONTROL INC.	SAT-242			
Max Gains(s): 4.0 dBi @ 1.5250 GHz 4.0 dBi @ 1.6260 GHz								
Maximum total input power at antenna flange (Watts) = 1.00								
Maximum aggregate output EIRP for all carriers (dBW) = 9.00								
1	8	1	0.11	HONEYWELL GLOBAL TRACKING	TAM-401			
Max Gains(s): 6.0 dBi @ 1.5250 GHz 6.0 dBi @ 1.6265 GHz								
Maximum total input power at antenna flange (Watts) = 1.00								
Maximum aggregate output EIRP for all carriers (dBW) = 6.00								



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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	9	1	0.11	HONEYWELL GLOBAL TRACKING	SAT-401			
Max Gains(s): 6.0 dBi @ 1.5250 GHz 6.0 dBi @ 1.6265 GHz								
Maximum total input power at antenna flange (Watts) = 1.00								
Maximum aggregate output EIRP for all carriers (dBW) = 6.00								

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:

167 --- This authorization is limited to the total number of terminals listed in Section A of this license for this Site ID.

214 --- Authority IS GRANTED pursuant to Section 25.210(j) of the Commission's rules, to permit operations of earth stations with the Inmarsat 4F2 satellite, maintained at ± 10 degree of the 52.75° W.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 4F2 satellite's ± 0.10 degree stationkeeping volume, but would not overlap the Inmarsat 4F2 satellite's $\pm 0.05^\circ$ degree stationkeeping volume, unless Inmarsat has successfully coordinated its physical operations with those of the other spacecraft.

215 --- Operations via the Inmarsat 4F2 satellite using a north-south inclination of as much as three degrees ARE GRANTED, conditioned on operations of the 4F2 complying with the inclined orbit requirements set forth in Sections 25.280(b)(1)-(3) of the Commission's rules

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.



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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:

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.

394 --- Richtech/Satamatics by this File No. SES-ASG-20040316-00417. Satamatics/LXE by this File No. SES-ASG-20090319-00350.

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.

2325 --- Antennas and all antenna supporting structures used under this authorization shall not exceed 20 feet in height.

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.



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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:

- 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).
- 3920 --- This authorization is issued to (1) increase to 15 years license term, (2) increase to 25,000 METs, and (3) eliminate the channel limitation, pursuant to Richtec's agreement to limit average shutdown time of 1.35 seconds and a maximum shutdown time of 2.6 seconds (File No. SES-MOD-20031126-01728, November 26, 2003) in meeting the priority and preemption requirements for the lower part of the 1.5/1.6 GHz MSS bands sharing with GMDSS services. This condition supercedes the condition 5895 on the previous authorization.
- 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.
- 5747 --- Licensee's mobile earth station terminals operating on board aircraft shall comply with all applicable Federal Aviation Administration and International Civil Aviation Organization (ICAO) rules and regulations and all other international agreements in forces to which the United States is a party.
- 5748 --- Licensee's mobile earth station terminals operating on board maritime vessels shall comply with all applicable U.S. Coast Guard and International Maritime Organization (IMO) rules and regulations and all other international agreements in force to which the United States is a party.
- 5749 --- Licensee's mobile earth station terminals operating on board aircraft shall comply with the Section 87.147(d) of the Commission's Rules. See 47 C.F.R. Section 87.147(d).
- 5779 --- Upon completion of construction each 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 construction of the facility as authorized has been completed, and that the station is operational including the date of commencement of service, and will remain operational during the license period unless the license is submitted for cancellation.
- 5898 --- This authorization is subject to operation of Inmarsat under Section 648 of the ORBIT Act imposing restrictions on exclusive arrangements for the provision of satellite services between the United States and other countries.
- 5900 --- For the half-duplex METs authorized herein to operate in the 1525-1544 MHz and 1626.5-1645.5 MHz bands, footnotes US315 and S5.353A to Section 2.106 of the Commission's Rules ARE WAIVED to permit the half-duplex METs authorized herein to operate in a portion of the lower L-band (1525-1544 MHz and 1626.5-1645.5 MHz) on a non-real-time preemptive basis. Under this waiver, operations of half-duplex METs in the lower L-band shall be on a secondary basis to safety and distress communications of those stations operating in the GMDSS.



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

5901 --- Richtec's METs shall comply with the out-of-band emission limits set forth in Sections 25.202(f) and 25.216 of the Commission's rules. See 47 C.F.R. § 25.202(f); Out-of-Band Emission Order, FCC 02-34 (rel. May 14, 2002).

5914 --- This authorization permits the licensee to provide common carrier service consistent with Richtec's Section 214 authorization in File No. ITC-214-20020228-00160. See Public Notice, Report No. TEL-00522, 17 FCC Rcd 7391 (April 25, 2002). See also Public Notice, Report No. TEL-00673, DA 03-1814, File No. ISP-PDR-20030422-00013, May 29, 2003; and Public Notice, Report No. SES-00504, File No. SES-T/C-20030423-00516, June 4, 2003.

5956 --- The authorized mobile earth terminals (METs) shall comply with the out-of-band emission limits set forth in Sections 25.202(f) and 25.216 of the Commission's rules. See 47 C.F.R. §§ 25.202(f) and 25.216; Out-of-Band Emission Orders, FCC 02-34 (rel. May 14, 2002), as amended by FCC-03-0283 (rel. November 18, 2003).

5957 --- Licensees must comply with the terms of any L-band operator-to-operator coordination agreement. In the absence of a continuing L-band operator-to-operator coordination agreement, operations of METs in the 1525-1559 and 1626.5-1660.5 MHz bands will be on a non-harmful interference basis until a future operator-to-operator agreement is concluded. In this instance, each licensee must notify the other operators in these frequency bands that it will be operating on a non-harmful interference basis. Each licensee must notify its customers that its operations are on a non-harmful interference basis.



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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.

