



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION**

**RADIO STATION AUTHORIZATION**

**Name:** Intelsat License LLC

**Call Sign:** KA265

**Authorization Type:** Modification of License

**File Number:** SES-MFS-20160229-00177

Non Common Carrier

**Grant date:** 05/31/2016

**Expiration Date:** 03/31/2024

**Nature of Service:** Fixed Satellite Service

**Nature of Service:** International 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	KAM HIGHWAY PAUMALU, OAHU, HI 96712	21°40'27.0"N	158°2'16.0"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 March 31, 2009 (3 AM Eastern Standard Time) and ending March 31, 2024 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is 00/00/0000. 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)	6176.3000-6176.3000	L,R	850KF2D	Tx	78.70	54.70	C-LMA-T3		COMMAND AND RANGING of Intelsat 805
2)	6173.7000-6173.7000	L,R	850KF2D	Tx	78.70	54.70	C-LMA-T3		COMMAND AND RANGING of Intelsat 805
3)	6172.0000-6178.0000	L,R	800KFXD	Tx	83.00	60.00	C-LMA-T3		COMMAND SIGNAL
4)	5925.0000-6425.0000	H,V	256KG7W	Tx	65.56	47.50	C-LMA-T3		DIGITAL DATA, VIDEO OR VOICE
5)	5925.0000-6425.0000	H,V	36M0G7W	Tx	79.04	39.50	C-LMA-T3		DIGITAL DATA, VIDEO OR VOICE
6)	5925.0000-6425.0000	H,V	72M0G7W	Tx	79.05	36.50	C-LMA-T3		DIGITAL DATA, VIDEO OR VOICE
7)	5850.0000-6425.0000	L,R	1M50F3X	Tx	83.00	57.30	C-LMA-T3		ENERGY-DISPERSED FM TEST SIGNAL



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**B) Particulars of Operations**

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#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
8)	3947.5000-3952.5000	R	300KF2D	Rx		0.00	C-LMA-T3		COMMAND AND RANGING of Intelsat 805
9)	3700.0000-4200.0000	H, V	256KG7W	Rx			C-LMA-T3		DIGITAL DATA, VIDEO OR VOICE
10)	3700.0000-4200.0000	H, V	36M0G7W	Rx			C-LMA-T3		DIGITAL DATA, VIDEO OR VOICE
11)	3700.0000-4200.0000	H, V	72M0G7W	Rx			C-LMA-T3		DIGITAL DATA, VIDEO OR VOICE
12)	3625.0000-4200.0000	L, R	800KFXD	Rx			C-LMA-T3		COMMAND SIGNAL
13)	3625.0000-4200.0000	L, R	1M50F3X	Rx			C-LMA-T3		ENERGY-DISPERSED FM TEST SIGNAL

**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)	5850.0000-6425.0000	83.0W	-233.0W	05.0	-05.0	095.6	-264.3	31.2	C-LMA-T3
2)	6172.0000-6178.0000	83.0W	-233.0W	05.0	-05.0	095.6	-264.3	31.2	C-LMA-T3
3)	3625.0000-4200.0000	83.0W	-233.0W	05.0	-05.0	095.6	-264.3		C-LMA-T3
4)	5925.0000-6425.0000	83.0W	-233.0W	05.0	-05.0	095.6	-264.3	31.2	C-LMA-T3
5)	3700.0000-4200.0000	83.0W	-233.0W	05.0	-05.0	095.6	-264.3		C-LMA-T3
6)	6173.7000-6173.7000	169.0W	-168.9W	61.7	-61.7	152.2	-152.4	7.94	C-LMA-T3
7)	6176.3000-6176.3000	169.0W	-168.9W	61.7	-61.7	152.2	-152.4		C-LMA-T3

**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 @ 176.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 2) 1 to New Skies Satellite, N.V. 513 @ 183.0 E.L. (Netherlands-licensed) (Non-U.S.-licensed)
- 3) 1 to INTELSAT POR @ 174.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 4) 1 to INTELSAT POR @ 180.0 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 5) 1 to Permitted Space Station List



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**D) Points of Communications**

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

6) 1 to INTELSAT 805 @ 169 E.L. degrees (U.S.-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)
1	C-LMA-T3	1	9	VERTEX	9KPC (TTC&M)	144.8	9.8 AGL/ 154.6 AMSL	
Max Gains(s):		53.5 dBi @	6.1750 GHz	50.1 dBi @	3.9500 GHz			
Maximum total input power at antenna flange (Watts) =					900.00			
Maximum aggregate output EIRP for all carriers (dBW) =					83.00			

**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:

- 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.
- 2510 --- Waiver of Section 25.203 (e) of the Commission's Rules and Regulations is granted for the beam intersections listed in the application(s) for this facility.
- 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).



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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:

5013 --- In the event of the failure of a satellite with which operations are authorized in Section D of this license, operations are authorized in conjunction with the authorized INTELSAT satellite in the affected Ocean Region that provides the services authorized herein in order to maintain the continuity of commercial service; provided that the licensee(s) immediately notify the Commission of the nature of this emergency and its expected duration; and provided that the operational limits of elevation angle and azimuth range specified in Section C of this license are not exceeded. In the event that such emergency operations require emissions not specified in Section B of this license, such emissions may be utilized provided that the EIRP's of such emissions do not exceed the limits set forth in this license.

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](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

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)

5833 --- The operation with ALSAT shall be limited to the 5925-6425 and 3700-4200 MHz frequency bands.

5880 --- Use of this facility to provide international service on a common carrier basis requires a separate authorization under Section 214 of the Communication Act of 1934, as amended.

5881 --- The extended C-band frequencies 5850-5925 MHz and 3625-3700 MHz are only for use with the INTELSAT and New Skies Satellite, N.V. satellites listed in Section D (Points of Communications) of this authorization.

90133 --- Operations with the point of communication ALSAT or Permitted list must comply with the routine licensing provisions of parts 25 of Title 47 of the Code of Federal Regulations.



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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.**