UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession
Call Sign: KA261
Authorization Type: Modification of License
File Number: SES-MOD-20180418-00364
Non Common Carrier **Grant date:** 10/14/2020 **Expiration Date:** 03/31/2024

Nature of Service: Fixed Satellite Service

Class of Station: Fixed Earth Stations

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	1	17625 TECHNOLOGY BLVD. HAGERSTOWN, WASHINGTON, MD 21740	39°35'57.0"N	77°45'22.0"W	166	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 October 14, 2021 (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)	6176.3000-6176.3000	H,V,L,R	850KF7D	Tx	85.30	61.30	1		TT&C
2)	6173.7000-6173.7000	H,V,L,R	850KF7D	Tx	85.30	61.30	1		TT&C
3)	5925.0000-6425.0000	H,V,L,R	NON	Tx	55.70	55.70	1		IOT
4)	5925.0000-6425.0000	H,V,L,R	1M00F2D	Tx	79.70	55.70	1		TT&C
5)	5925.0000-6425.0000	H,V,L,R	200KF2D	Tx	72.70	55.70	1		TT&C
6)	5925.0000-6425.0000	H,V,L,R	56K0G7W	Tx	67.20	55.70	1		DIGITAL DATA
7)	5925.0000-6425.0000	H,V,L,R	72M0G7W	Tx	79.70	37.10	1		DIGITAL DATA
8)	5850.0000-5925.0000	H,V,L,R	56K0G7W	Tx	67.20	55.70	1		DIGITAL DATA, VIDEO AND VOICE SERVICES
9)	5850.0000-5925.0000	H,V,L,R	72M0G7W	Tx	88.00	45.40	1		DIGITAL DATA, VIDEO AND VOICE SERVICES

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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
10)	3952.5000-3952.5000	H,V,L,R	500KF7D	Rx			1		TT&C
11)	3948.0000-3948.0000	H,V,L,R	500KF7D	Rx			1		TT&C
12)	3947.5000-3947.5000	H,V,L,R	500KF7D	Rx			1		TT&C
13)	3700.0000-4200.0000	H,V,L,R	NON	Rx			1		IOT
14)	3700.0000-4200.0000	H,V,L,R	1M00F2D	Rx			1		TT&C
15)	3700.0000-4200.0000	H,V,L,R	200KF2D	Rx			1		TT&C
16)	3700.0000-4200.0000	H,V,L,R	56K0G7W	Rx			1		DIGITAL DATA
17)	3700.0000-4200.0000	H,V,L,R	72M0G7W	Rx			1		DIGITAL DATA
18)	3625.0000-4200.0000	H,V,L,R	56K0G7W	Rx			1		DIGITAL DATA, VIDEO AND VOICE SERVICES
19)	3625.0000-4200.0000	H,V,L,R	72M0G7W	Rx			1		DIGITAL DATA, VIDEO AND VOICE SERVICES

C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.) East Limit	Satellite Arc (Deg. Long.) West Limit	Elevation (Degrees) East Limit	Elevation (Degrees) West Limit	Azimuth (Degrees) East Limit	Azimuth (Degrees) West Limit	Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
1)	5925.0000-6425.0000	18.0W	65.0W	14.4	42.3	110.4	160.4	0.3	1
2)	5850.0000-5925.0000	24.0W	25.0W	18.9	19.6	115.0	115.8	0.3	1
3)	3625.0000-3700.0000	24.0W	25.0W	18.9	19.6	115.0	115.8	0	1
4)	3700.0000-4200.0000	18.0W	65.0W	14.4	42.3	110.4	160.4	0	1
5)	5925.0000-6425.0000	6.0W	65.0W	05.3	42.3	101.9	160.4	-7.22	1
6)	3700.0000-4200.0000	6.0W	65.0W	05.3	42.3	101.9	160.4	0	1
7)	6173.7000-6173.7000	6.0W	65.0W	05.3	42.3	101.9	160.4	-8.73	1
8)	6176.3000-6176.3000	6.0W	65.0W	05.3	42.3	101.9	160.4	-8.73	1

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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:

1) 1 to Permitted Space Station List
2) 1 to INTELSAT 905 (S2409) @ 24.5 degrees W.L. (U.S.-licensed)
3) 1 to INTELSAT 9 (S2380) @ 50.0 W.L. (U.S.-licensed) (Inclined orbit)
4) 1 to INTELSAT 901 (S2405) @ 27.5 degrees W.L. (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	1	1	15.2	VERTEX	15.2KPC	166	17.35 AGL/ 183.35 AMSL	

Max Gains(s): 55.0 dBi @ 3.9500 GHz 58.4 dBi @ 6.1750 GHz
Maximum total input power at antenna flange (Watts) = 1,500.00
Maximum aggregate output EIRP for all carriers (dBW) = 90.20

F) Remote Control Point:

1 **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:

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 Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.

5 --- Licensee must notify the Commission when this earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.

6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.

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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:

5822 --- 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. Additionally, per US 245, in the band 3600-3650 MHz, these fixed-satellite service operations are limited to international inter-continental satellite systems.

5859 --- 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. Additionally, per US 245, in the band 3650-3700 MHz, these fixed-satellite service operations are limited to international inter-continental satellite systems.

90023 --- Operation on extended C-band frequencies 3625-3700 MHz will be on non-protected basis.

90397 --- Telemetry, tracking and command (TT&C) operations identified in part B, Particulars of Operation in this authorization may be transmitted within the assigned bands that are not at a band edge only if the transmissions cause no greater interference and require no greater protection from harmful interference than the communications traffic on the satellite network or have been coordinated with operators of authorized co-frequency space stations at orbital locations within six degrees of the assigned orbital location. Frequencies, polarization, and coding of telemetry, tracking, and command transmissions must be selected to minimize interference into other satellite networks.

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 §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)

90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) 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. Physical 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.

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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:

90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

3600-4200 MHz (space-to-Earth)
5850-6725 MHz (Earth-to-space)
10.95-11.2 GHz (space-to-Earth)
11.45-12.2 GHz (space-to-Earth)
13.75-14.5 GHz (Earth-to-space)
18.3-18.8 GHz (space-to-Earth)
19.7-20.2 GHz (space-to-Earth)
24.75-25.25 GHz (Earth-to-space)
28.35-28.6 GHz (Earth-to-space)
29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.

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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 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 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.