



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E050174

Authorization Type: Renewal of License

File Number: SES-RWL-20200626-00678

Non Common Carrier

Grant date: 08/31/2020

Expiration Date: 08/09/2035

Nature of Service: Fixed Satellite Service

Class of Station: VSAT Network

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	100QS	CONUS 200 (1m antennas) CONUS,				NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
2)	120QS	CONUS 200 (1.2m antennas) CONUS,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
3)	75QS	CONUS 200 (.75 m antennas) CONUS,				NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
4)	96QS	CONUS 200 (.96M antennas) CONUS,				NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
5)	HUB (9.3 m)	2857 Fork Creek Church Rd Ellenwood, Dekalb, GA 30294	33°39'49.0"N	84°16'21.0"W	236	83
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				



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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 August 9, 2020 (3 AM Eastern Standard Time) and ending August 9, 2035 (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)	14000.0000-14500.0000	H,V	425KG1W	Tx	44.70	24.44	100QS		IP Video & Data
2)	14000.0000-14500.0000	H,V	4M09G1W	Tx	50.90	20.80	100QS		IP Video & Data
3)	11700.0000-12200.0000	H,V	36M0G7W	Rx			100QS		
4)	11700.0000-12200.0000	H,V	3M00G7W	Rx			100QS		
5)	14000.0000-14500.0000	H,V	4M58G1W	Tx	51.40	20.81	120QS		IP Video & Data
6)	14000.0000-14500.0000	H,V	600KG1W	Tx	46.10	24.34	120QS		IP Video & Data
7)	11700.0000-12200.0000	H,V	36M0G7W	Rx			120QS		
8)	11700.0000-12200.0000	H,V	3M00G7W	Rx			120QS		
9)	14000.0000-14500.0000	H,V	255KG1W	Tx	42.40	24.36	75QS		IP Video & Data
10)	14000.0000-14500.0000	H,V	2M68G1W	Tx	48.40	20.14	75QS		IP Video & Data
11)	11700.0000-12200.0000	H,V	36M0G7W	Rx			75QS		
12)	11700.0000-12200.0000	H,V	3M00G7W	Rx			75QS		
13)	14000.0000-14500.0000	H,V	3M68G1W	Tx	50.20	20.56	96QS		IP Video & Data
14)	14000.0000-14500.0000	H,V	400KG1W	Tx	44.30	24.30	96QS		IP Video & Data
15)	11700.0000-12200.0000	H,V	36M0G7W	Rx			96QS		
16)	11700.0000-12200.0000	H,V	3M00G7W	Rx			96QS		
17)	14000.0000-14500.0000	H,V	3M00G7W	Tx	67.50	38.75	AK-9		Digital video and data
18)	14000.0000-14500.0000	H,V	36M0G7W	Tx	78.30	38.76	AK-9		VSAT Hub IP video and data



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B) Particulars of Operations

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The General Provision 1900 applies to all transmitting frequency bands.

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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
19)	11700.0000-12200.0000	H, V	255KG1W	Rx			AK-9		
20)	11700.0000-12200.0000	H, V	36M0G7W	Rx			AK-9		
21)	11700.0000-12200.0000	H, V	3M00G7W	Rx			AK-9		
22)	11700.0000-12200.0000	H, V	4M58G1W	Rx			AK-9		

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)	11700.0000-12200.0000	123.0W	123.0W	14.5	14.5	242.9	242.9		75QS
2)	14000.0000-14500.0000	123.0W	123.0W	14.5	14.5	242.9	242.9	-11.97	75QS
3)	11700.0000-12200.0000	123.0W	123.0W	33.3	33.3	235.2	235.2		AK-9
4)	14000.0000-14500.0000	123.0W	123.0W	33.3	33.3	235.2	235.2	-28.3	AK-9
5)	11700.0000-12200.0000	123.0W	123.0W	14.5	14.0	242.9	242.9		120QS
6)	14000.0000-14500.0000	123.0W	123.0W	14.5	14.5	242.9	242.9	-15.86	120QS
7)	11700.0000-12200.0000	123.0W	123.0W	14.5	14.5	242.9	242.9		100QS
8)	14000.0000-14500.0000	123.0W	123.0W	14.5	14.5	242.9	242.9	-14.09	100QS
9)	11700.0000-12200.0000	123.0W	123.0W	14.5	14.5	242.9	242.9		96QS
10)	14000.0000-14500.0000	123.0W	123.0W	14.5	14.5	242.9	242.9	-13.93	96QS

D) Points of Communications

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

- 1) 75QS to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 2) HUB (9.3 m) to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 3) HUB (9.3 m) to Permitted Space Station List
- 4) 120QS to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 5) 100QS to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)
- 6) 96QS to GALAXY 10R satellite @ 123 W.L. (U.S.-licensed domestic satellite)



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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)
100QS	100QS	200	1	Prodelin	1000 iSNG		3 AGL	
		Max Gains(s):	40.0 dBi @	11.9500 GHz	41.5 dBi @	14.2500 GHz		
		Maximum total input power at antenna flange (Watts) =			8.70			
		Maximum aggregate output EIRP for all carriers (dBW) =			50.90			
120QS	120QS	200	1.2	Prodelin	1210 USA		3.2 AGL	
		Max Gains(s):	41.6 dBi @	11.9500 GHz	43.2 dBi @	14.2500 GHz		
		Maximum total input power at antenna flange (Watts) =			6.65			
		Maximum aggregate output EIRP for all carriers (dBW) =			51.40			
75QS	75QS	200	0.75	Channel Master (AVL Technologies)	750 iMoVSAT		2.75 AGL	
		Max Gains(s):	37.8 dBi @	11.9500 GHz	39.3 dBi @	14.2500 GHz		
		Maximum total input power at antenna flange (Watts) =			8.12			
		Maximum aggregate output EIRP for all carriers (dBW) =			48.40			
96QS	96QS	200	0.96	Channel Master (AVL Technologies)	960 AVSAT		2.96 AGL	
		Max Gains(s):	39.7 dBi @	11.9500 GHz	41.2 dBi @	14.2500 GHz		
		Maximum total input power at antenna flange (Watts) =			7.94			
		Maximum aggregate output EIRP for all carriers (dBW) =			50.20			
HUB (9.3 m)	AK-9	1	9.3	Vertex	9KPK	236	11.3 AGL/ 247.1 AMSL	
		Max Gains(s):	61.0 dBi @	14.0000 GHz	59.0 dBi @	12.0000 GHz		
		Maximum total input power at antenna flange (Watts) =			2,000.00			
		Maximum aggregate output EIRP for all carriers (dBW) =			93.00			

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions



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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:

- 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.
- 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.
- 8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

110 --- Operations under the authority of this license are on a non-interference basis only.

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.

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.



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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:

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 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.