



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC

Call Sign: E980502

Authorization Type: Modification of License

File Number: SES-MOD-20170725-00801

Non Common Carrier

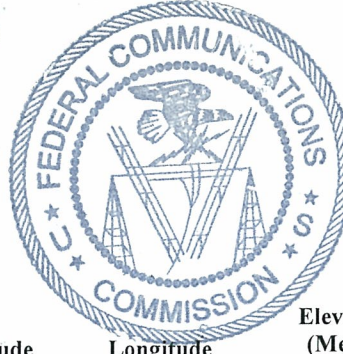
Grant date: 09/13/2017

Expiration Date: 12/28/2024

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	2857 FORK CREEK CHURCH ROAD ELLENWOOD, CLAYTON, GA 30294	33°39'53.0"N	84°16'19.0"W	237.7	27

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 December 28, 2009 (3 AM Eastern Standard Time) and ending December 28, 2024 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is September 13, 2018 (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)	14494.5000-14494.5000	H, V, L, R	850KF7D	Tx	68.80	45.50	AK-6		TT&C
2)	14000.5000-14000.5000	H, V, L, R	850KF7D	Tx	68.80	45.50	AK-6		TT&C
3)	14000.0000-14500.0000	H, V	750KF2D	Tx	85.00	62.27	AK-6	2610	COMMAND
4)	14000.0000-14500.0000	H, V	18M0F8F	Tx	82.00	55.00	AK-6		ANALOG VIDEO
5)	14000.0000-14500.0000	H, V	36M0F8F	Tx	85.00	58.00	AK-6		ANALOG VIDEO
6)	14000.0000-14500.0000	H, V	64K0G7D	Tx	57.74	45.70	AK-6		DIGITAL DATA
7)	14000.0000-14500.0000	H, V	36M0G7W	Tx	85.00	45.46	AK-6		DIGITAL DATA/VIDEO
8)	14000.0000-14500.0000	H, V	3M00G7W	Tx	74.45	45.70	AK-6		DIGITAL DATA/VIDEO
9)	13750.0000-14000.0000	H, V	750KF2D	Tx	85.00	62.27	AK-6	3462 3854	COMMAND



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10)	13750.0000-14000.0000	H, V	18M0F8F	Tx	82.00	55.00	AK-6	3462 3854	ANALOG VIDEO
11)	13750.0000-14000.0000	H, V	36M0F8F	Tx	85.00	58.00	AK-6	3462 3854	ANALOG VIDEO
12)	13750.0000-14000.0000	H, V	64K0G7D	Tx	68.00	55.96	AK-6	3462 3854	DIGITAL DATA
13)	13750.0000-14000.0000	H, V	36M0G7W	Tx	85.00	45.46	AK-6	3462 3854	DIGITAL DATA/VIDEO
14)	13750.0000-14000.0000	H, V	3M00G7W	Tx	75.00	46.25	AK-6	3462 3854	DIGITAL DATA/VIDEO
15)	12750.0000-13250.0000	H, V	75K0F2D	Tx	85.00	62.27	AK-6	2610	COMMAND
16)	12750.0000-13250.0000	H, V	18M0F8F	Tx	82.00	55.00	AK-6		ANALOG VIDEO
17)	12750.0000-13250.0000	H, V	36M0F8F	Tx	85.00	58.00	AK-6		ANALOG VIDEO
18)	12750.0000-13250.0000	H, V	64K0G7D	Tx	57.74	45.70	AK-6		DIGITAL DATA
19)	12750.0000-13250.0000	H, V	36M0G7W	Tx	85.00	45.46	AK-6		DIGITAL DATA/VIDEO
20)	12750.0000-13250.0000	H, V	3M00G7W	Tx	74.45	45.70	AK-6		DIGITAL DATA/VIDEO
21)	11702.0000-11702.0000	H, V, L, R	850KF7D	Rx			AK-6		TT&C
22)	11700.5000-11700.5000	H, V, L, R	850KF7D	Rx			AK-6		TT&C
23)	11700.0000-12200.0000	H, V	750KF2D	Rx			AK-6		COMMAND
24)	11700.0000-12200.0000	H, V	18M0F8F	Rx			AK-6		ANALOG VIDEO
25)	11700.0000-12200.0000	H, V	36M0F8F	Rx			AK-6		ANALOG VIDEO
26)	11700.0000-12200.0000	H, V	64K0G7D	Rx			AK-6		DIGITAL DATA
27)	11700.0000-12200.0000	H, V	36M0G7W	Rx			AK-6		DIGITAL DATA/VIDEO
28)	11700.0000-12200.0000	H, V	3M00G7W	Rx			AK-6		DIGITAL DATA/VIDEO
29)	11200.0000-11450.0000	H, V	750KF2D	Rx			AK-6		COMMAND
30)	11200.0000-11450.0000	H, V	18M0F8F	Rx			AK-6		ANALOG VIDEO
31)	11200.0000-11450.0000	H, V	36M0F8F	Rx			AK-6		ANALOG VIDEO



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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
32)	11200.0000-11450.0000	H, V	64K0G7D	Rx			AK-6		DIGITAL DATA
33)	11200.0000-11450.0000	H, V	36M0G7W	Rx			AK-6		DIGITAL DATA/VIDEO
34)	11200.0000-11450.0000	H, V	3M00G7W	Rx			AK-6		DIGITAL DATA/VIDEO
35)	10700.0000-11200.0000	H, V	750KF2D	Rx			AK-6		COMMAND
36)	10700.0000-11200.0000	H, V	18M0F8F	Rx			AK-6		ANALOG VIDEO
37)	10700.0000-11200.0000	H, V	36M0F8F	Rx			AK-6		ANALOG VIDEO
38)	10700.0000-11200.0000	H, V	64K0G7D	Rx			AK-6		DIGITAL DATA
39)	10700.0000-11200.0000	H, V	36M0G7W	Rx			AK-6		DIGITAL DATA/VIDEO
40)	10700.0000-11200.0000	H, V	3M00G7W	Rx			AK-6		DIGITAL DATA/VIDEO

**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)	14000.0000-14500.0000	43.0W	139.0W	31.3	20.6	122.3	248.6	-1.4	AK-6
2)	12750.0000-13250.0000	43.0W	58.0W	31.3	41.8	122.3	248.6	-5.94	AK-6
3)	13750.0000-14000.0000	43.0W	58.0W	31.3	41.8	122.3	248.6	-5.94	AK-6
4)	10700.0000-11700.0000	43.0W	58.0W	31.3	41.8	122.3	248.6		AK-6
5)	11200.0000-11450.0000	43.0W	58.0W	31.3	41.8	122.3	248.6		AK-6
6)	11700.0000-12200.0000	43.0W	139.0W	31.3	20.6	122.3	248.6		AK-6

**D) Points of Communications**

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

- 1) 1 to PANAMSAT-3R (PAS-3R @ 43.0 W.L.) satellite(s) of the PANAMSAT system. (U.S.-licensed)
- 2) 1 to Permitted Space Station List
- 3) 1 to PANAMSAT 1R (PAS-1R ) @ 45.0 W.L. (U.S.-licensed domestic satellite)
- 4) 1 to PANAMSAT 8B (PAS-8B) or PAS-6 @ 43.0 W.L. (U.S.-licensed domestic satellite)



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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:

- 5) 1 to PANAMSAT 9 @ 58.0 W.L. S2380 (U.S.-licensed domestic satellite)
- 6) 1 to INTELSAT 9 (S2380) @ 29.5 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	AK-6	1	8.1	COMSAT RSI	8.1 KPC	237.7	8.3 AGL/ 246 AMSL	
Max Gains(s):		58.3 dBi @	12.0000 GHz	59.6 dBi @	14.0000 GHz			
Maximum total input power at antenna flange (Watts) =					2,900.00			
Maximum aggregate output EIRP for all carriers (dBW) =					94.20			

**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 (IBFS) in the "Other Filings" tab within 10 days of the change.
- 5 --- Licensee must notify the Commission when an 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.

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.



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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:

- 3462 --- Use of the extended Ku-band frequency band (13.75 GHz to 14.0 GHz) has been approved by The National Telecommunications and Information Administration. This authorization is subject to the terms and conditions set forth in the Commission's Report and Order adopted September 12, 1996, (11 FCC Record 11951).
- 3840 --- The use of the bands 10.7-10.95 GHz, 11.2-11.45 GHz and 12.75-13.25 GHz by the fixed-satellite service shall be in accordance with the provisions of Appendix 30B.
- 3841 --- The use of the frequency bands 10.7-11.7 GHz and 12.75-13.25 GHz in the fixed-satellite service is limited to international systems.
- 3854 --- Licensee shall comply with EIRP density limit 71 dBW in any 6MHz band from 13.77 to 13.78 GHz, per ITU footnote S5.503 and the Section 25.204 (f) of the Commission's Rules.
- 5225 --- This action constitutes the final step with respect to the provision of the services only insofar as the US regulatory process is concerned. However, this authority shall not be construed as authorizing the distribution of programming where the appropriate copyright clearances have not been obtained or where the U.S. Government has determined that appropriate copyright protection does not otherwise exist.
- 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](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.



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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.**