



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

Name: Intelsat License LLC

Call Sign: E060384

Authorization Type: Modification of License

File Number: SES-MOD-20180611-01319

Non Common Carrier

Grant date: 08/27/2018

Expiration Date: 11/27/2021



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	22401 JUNIPER FLATS ROAD NUEVO, RIVERSIDE, CA 92567	33°47'47.3"N	117°5'15.0"W	553	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 November 27, 2006 (3 AM Eastern Standard Time) and ending November 27, 2021 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is August 27, 2019 (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)	14000.0000-14500.0000	H, V, L, R	36M0F3F	Tx	87.10	60.10	IPC-08C		ANALOG VIDEO
2)	14000.0000-14500.0000	H, V, L, R	45K8G7D-	Tx	56.70	46.10	IPC-08C		DIGITAL CARRIERS
3)	14000.0000-14500.0000	H, V, L, R	16K0F8D	Tx	58.10	52.10	IPC-08C		ANALOG TT&C CARRIER
4)	14000.0000-14500.0000	H, V, L, R	1M00F8D	Tx	76.10	52.10	IPC-08C		ANALOG TT&C CARRIER
5)	14000.0000-14500.0000	H, V, L, R	1M00G7D	Tx	70.10	46.10	IPC-08C		DIGITAL TT&C CARRIERS
6)	14000.0000-14500.0000	H, V, L, R	200KG7D	Tx	63.10	46.10	IPC-08C		DIGITAL TT&C CARRIERS
7)	14000.0000-14500.0000	H, V, L, R	72M0G7D	Tx	88.70	46.10	IPC-08C		COMBINATION OF DIGITAL CARRIERS
8)	13997.5000-13997.5000	H, V, L, R	850KG7D	Tx	85.00	61.70	IPC-08C		TT&C
9)	13750.0000-14000.0000	H, V, L, R	900KF2D	Tx	85.00	61.50	IPC-08C		COMMAND CARRIER



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.  
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 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)	11700.0000-12200.0000	H, V, L, R	72M0G7D	Rx			IPC-08C		COMBINATION OF DIGITAL CARRIERS
11)	11700.0000-12200.0000	H, V, L, R	200KG7D	Rx			IPC-08C		DIGITAL TT&C CARRIERS
12)	11700.0000-12200.0000	H, V, L, R	1M00G7D	Rx			IPC-08C		DIGITAL TT&C CARRIERS
13)	11700.0000-12200.0000	H, V, L, R	1M00F8D	Rx			IPC-08C		ANALOG TT&C CARRIER
14)	11700.0000-12200.0000	H, V, L, R	16K0F8D	Rx			IPC-08C		ANALOG TT&C CARRIER
15)	11700.0000-12200.0000	H, V, L, R	45K8G7D-	Rx			IPC-08C		DIGITAL CARRIERS
16)	11700.0000-12200.0000	H, V, L, R	36M0F3F	Rx			IPC-08C		ANALOG VIDEO
17)	10950.0000-11200.0000	H, V, L, R	600KG7D	Rx			IPC-08C		TELEMETRY CARRIER
18)	10950.0000-11200.0000	H, V, L, R	600KF2D	Rx			IPC-08C		TELEMETRY CARRIER
19)	12198.2500-12198.2500	H, V, L, R	300KF7D	Rx			IPC-08C		TELEMETRY CARRIER
20)	12198.7500-12198.7500	H, V, L, R	300KF7D	Rx		0.00	IPC-08C		TELEMETRY CARRIER
21)	13997.5000-13997.5000	H, V, L, R	850KF7D	Tx	88.80	64.00	IPC-08C		COMMAND
22)	14199.5000-14499.5000	H, V, L, R	850KF7D	Tx	88.80	64.00	IPC-08C		COMMAND

**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								IPC-08C
2)	11700.0000-12200.0000								IPC-08C
3)	13750.0000-14000.0000	94.9W	95.1W	44.1	44.2	143.8	144.0	-8.6	IPC-08C
4)	10950.0000-11200.0000	94.9W	95.1W	44.1	44.2	143.8	144.0	-3.19	IPC-08C
5)	13997.5000-13997.5000	74.8W	76.8W	30.4	32.0	121.5	123.3	-3.19	IPC-08C



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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 16 (S2750) @ 76.2 W.L. (U.S.-licensed)
- 3) 1 to INTELSAT 30 (S2887) @ 95.05 degrees W.L. (U.S.-licensed)
- 4) 1 to INTELSAT 31 (S2924) @ 95.05 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	IPC-08C	1	9	VERTEX/RSI	9M.	553	10 AGL/ 563 AMSL	
Max Gains(s):		58.5 dBi @	12.0000 GHz	60.1 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =					750.00			
Maximum aggregate output EIRP for all carriers (dBW) =					88.80			

**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 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.

90186 --- The emission carriers 900KF2D and 600KG7D and associated power levels as proposed in this application SES-MFS-20141030-00829 are limited as coordinated for operations with Intelsat 30 and Intelsat 31 points of communication. Grant of this authorization is without prejudice to any determination that the Commission may make regarding any other pending or future application seeking to communicate with Intelsat 30 and Intelsat 31.



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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:

- 90187 --- SES-MFS-20141030-00829 is authorized to conduct command operation on 13.7505 GHz and 14.0035 GHz (Earth-to-space) frequencies and telemetry on 11.198 GHz and 11.1985 GHz or 11.19925 GHz and 11.19975 GHz (space-to-Earth) frequencies for Intelsat 30 (S2887) pursuant to FCC file number SAT-LOA-20121025-00187.
- 90188 --- SES-MFS-20141030-00829 is authorized to conduct command operation on 13.9985 GHz and 14.006 GHz (Earth-to-space) and telemetry on 11.19425 GHz and 11.1955 GHz or 11.19625 GHz and 11.19675 GHz (space-to-Earth) for Intelsat 31 (S2924) pursuant to FCC file number SAT-LOA-20140410-00038.
- 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)
- 90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above this levels must coordinate with satellite operators prior to operations.
- 90482 --- SES-MOD020180611-01319 authorized conduct of TT&C operations with Intelsat 16 (S2750) on center frequencies 12198.25 MHz, 12198.75 MHz (space-to-Earth) and 13997.5 MHz, 14499.5 MHz (Earth-to-space).
- 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.

