



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

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

Call Sign: E950307

Authorization Type: Renewal of License

File Number: SES-RWL-20200814-00877

Non Common Carrier

Grant date: 09/18/2020

Expiration Date: 09/15/2035

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	961 ANSELMO COURT NAPA, CA 94558	38°14'43.2"N	122°16'51.1"W	7.62	UNK

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 September 15, 2020 (3 AM Eastern Standard Time) and ending September 15, 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)	6176.3000-6176.3000	L, R	850KFXD	Tx	78.97	70.20	1	90296	TELEMETRY & RANGING
2)	6173.7000-6173.7000	L, R	850KFXD	Tx	78.97	55.70	1	90296	TELEMETRY & RANGING
3)	5925.0000-6425.0000	H, V, L, R	1M36G7W	Tx	68.00	42.70	1		DATA
4)	5925.0000-6425.0000	H, V, L, R	950KF3D	Tx	77.00	53.20	1		TT&C
5)	5925.0000-6425.0000	H, V, L, R	27M0F8F	Tx	82.80	52.80	1		ANALOG TV
6)	5925.0000-6425.0000	H, V, L, R	30M0F8F	Tx	83.20	53.20	1		ANALOG TV
7)	5925.0000-6425.0000	H, V, L, R	36M0F8F	Tx	84.00	54.00	1		ANALOG TV
8)	5925.0000-6425.0000	H, V, L, R	24M0G7F	Tx	80.50	42.70	1		DIGITAL TV
9)	5925.0000-6425.0000	H, V, L, R	2M70G7F	Tx	71.00	42.70	1		DIGITAL TV



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

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

Call Sign: E950307

Authorization Type: Renewal of License

File Number: SES-RWL-20200814-00877

Non Common Carrier

Grant date: 09/18/2020

Expiration Date: 09/15/2035

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)	5925.0000-6425.0000	H, V, L, R	54M0G7F	Tx	84.00	42.70	1		DIGITAL TV
11)	5925.0000-6425.0000	H, V, L, R	6M50G7F	Tx	74.80	42.70	1		DIGITAL TV
12)	5925.0000-6425.0000	H, V, L, R	8M00G7F	Tx	75.70	42.70	1		DIGITAL TV
13)	5925.0000-6425.0000	H, V, L, R	9M80G7F	Tx	76.60	42.70	1		DIGITAL TV
14)	5925.0000-6425.0000	H, V, L, R	1M00G7W	Tx	64.00	40.00	1		DIGITAL DATA, VIDEO OR VOICE
15)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	73.00	30.50	1		DIGITAL DATA, VIDEO OR VOICE
16)	5850.0000-5925.0000	H, V, L, R	1M00G7D	Tx	63.90	39.90	1		DIGITAL DATA, VIDEO OR VOICE
17)	5850.0000-5925.0000	H, V, L, R	72M0G7D	Tx	73.00	30.40	1		DIGITAL DATA, VIDEO OR VOICE
18)	3947.0000-3953.0000	R	850KF7D	Rx	0.00		1	90296	TELEMETRY & RANGING
19)	3700.0000-4200.0000	H, V, L, R	1M36G7W	Rx			1		DATA
20)	3700.0000-4200.0000	H, V, L, R	200KF7D	Rx			1		TT&C
21)	3700.0000-4200.0000	H, V, L, R	1M00G7W	Rx			1		DIGITAL DATA, VIDEO OR VOICE
22)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			1		DIGITAL DATA, VIDEO OR VOICE
23)	3625.0000-3700.0000	H, V, L, R	60M0G7D	Rx			1		DIGITAL DATA, VIDEO OR VOICE
24)	6421.5000-6425.0000	H, V, L, R	1M50F7D	Tx	93.50	70.20	NAP-C21	90486	TT&C
25)	5850.0000-5853.5000	H, V, L, R	1M50F7D	Tx	93.50	70.20	NAP-C21	90486	TT&C
26)	4199.2500-4199.2500	H, V, L, R	1M50F7D	Rx			NAP-C21	90486	TT&C
27)	4198.7500-4198.7500	H, V, L, R	1M50F7D	Rx			NAP-C21	90486	TT&C
28)	4198.2500-4198.2500	H, V, L, R	1M50F7D	Rx			NAP-C21	90486	TT&C
29)	4197.7500-4197.7500	H, V, L, R	1M50F7D	Rx			NAP-C21	90486	TT&C



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

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

Call Sign: E950307

Authorization Type: Renewal of License

File Number: SES-RWL-20200814-00877

Non Common Carrier

Grant date: 09/18/2020

Expiration Date: 09/15/2035

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)	5925.0000-6425.0000	58.0W	194.0W	11.4	05.6	106.6	258.4	8.9	1
2)	3700.0000-4200.0000	58.0W	194.0W	11.4	05.6	106.6	258.4	0	1
3)	5850.0000-5925.0000	58.0W	194.0W	11.4	05.6	106.6	258.4	8.9	1
4)	3625.0000-3700.0000	58.0W	194.0W	11.4	05.6	106.6	258.4	0	1
5)	6173.7000-6176.3000	190.0W	192.0W	08.7	07.2	255.8	257.1	11.37	1
6)	6421.5000-6425.0000	50.0W	194.0W	05.6	05.2	101.2	258.4	21.16	NAP-C21
7)	5850.0000-5853.5000	50.0W	194.0W	05.6	05.2	101.2	258.4	21.16	NAP-C21
8)	4197.7500-4197.7500	50.0W	194.0W	05.6	05.2	101.2	258.4		NAP-C21
9)	4198.2500-4198.2500	50.0W	194.0W	05.6	05.2	101.2	258.4		NAP-C21
10)	4198.7500-4198.7500	50.0W	194.0W	05.6	05.2	101.2	258.4		NAP-C21
11)	4199.2500-4199.2500	50.0W	194.0W	05.6	05.2	101.2	258.4		NAP-C21

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 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 2) 1 to INTELSAT 805 (S2404) @ 304.5 E.L. (U.S.-licensed)
- 3) 1 to Permitted Space Station List
- 4) 1 to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)
- 5) 1 to INTELSAT 35e (S2959) @ 34.5 degrees W.L. (U.S.-licensed)
- 6) 1 to Permitted Space Station List
- 7) 1 to TDRS-5 (@ 174.3 W.L.) satellite(s) of the COLUMBIA system. (U.S.-licensed)
- 8) 1 to INTELSAT 905 (S2409) @ 24.5 degrees W.L. (U.S.-licensed)
- 9) 1 to HORIZONS 3 (S2947) satellite @ 169 degrees E.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	15.2 KPC	7.62	15.39 AGL/ 23.01 AMSL	
Max Gains(s): 54.9 dBi @ 3.9500 GHz 58.4 dBi @ 6.1750 GHz								
Maximum total input power at antenna flange (Watts) =					3,225.00			
Maximum aggregate output EIRP for all carriers (dBW) =					93.50			



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

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

Call Sign: E950307

Authorization Type: Renewal of License

File Number: SES-RWL-20200814-00877

Non Common Carrier

Grant date: 09/18/2020

Expiration Date: 09/15/2035

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	NAP-C21	1	15.2	VERTEX	15.2 KPC	7.62	15.39 AGL/ 23.01 AMSL	
Max Gains(s): 54.9 dBi @ 3.9500 GHz 58.4 dBi @ 6.1750 GHz								
Maximum total input power at antenna flange (Watts) =					3,225.00			
Maximum aggregate output EIRP for all carriers (dBW) =					93.50			

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.
- 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.
- 9 --- Site location coordinates are based on the WGS84 datum.

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.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: E950307

Authorization Type: Renewal of License

File Number: SES-RWL-20200814-00877

Non Common Carrier

Grant date: 09/18/2020

Expiration Date: 09/15/2035

H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 90012 --- Transmission and reception of TT&C signals using emission designators specified herein SES-MFS-20110204-00111 not at the edge of the 3700-4200 MHz (space to Earth) or 5925-6425 MHz (Earth to space) bands are granted only if a waiver of 47 C.F.R. § 25.202(g) has been granted to the U.S. licensed satellite.
- 90296 --- Limited only with Intelsat 805 (S2404) at 169° E.L. (191° W.L.) pursuant to the granted SAT-MOD-20151020-00072/SAT-AMD-201120-00077.
- 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.
- 90486 --- TT&C operation with Horizon 3e satellite (S2947).



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: E950307

Authorization Type: Renewal of License

File Number: SES-RWL-20200814-00877

Non Common Carrier

Grant date: 09/18/2020

Expiration Date: 09/15/2035

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.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: E950307

Authorization Type: Renewal of License

File Number: SES-RWL-20200814-00877

Non Common Carrier

Grant date: 09/18/2020

Expiration Date: 09/15/2035

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.