



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

Name: Intelsat License LLC

Call Sign: E020169

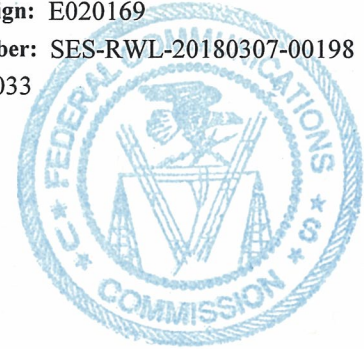
Authorization Type: Renewal of License

File Number: SES-RWL-20180307-00198

Non Common Carrier

Grant date: 06/01/2018

Expiration Date: 04/11/2033



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)	Nuevo	22401 Juniper Flats Road Nuevo, Riverside, CA 92567	33°47'46.5"N	117°5'15.0"W	550	83	

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 April 11, 2018 (3 AM Eastern Standard Time) and ending April 11, 2033 (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)	6603.5000-6650.0000	H,V,L,R	44M5G7W	Tx	86.00	45.50	16.4		Combination of digital carriers, various FEC rates
2)	6603.5000-6650.0000	H,V,L,R	43K8G7W-	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates
3)	6603.5000-6649.0000	H,V,L,R	36M0F3F	Tx	85.50	58.50	16.4		Analog Video
4)	6596.5000-6603.5000	H,V,L,R	6M50F3F	Tx	73.40	46.40	16.4		Analog Video
5)	6596.5000-6603.5000	H,V,L,R	43K8G7W-	Tx	56.80	46.40	16.4		Digital Video, Voice, and Data
6)	6591.0000-6596.5000	H,V,L,R	3M50G7W	Tx	85.50	56.10	16.4		Combination of digital carriers, various FEC rates



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7)	6591.0000-6596.5000	H, V, L, R	43K8G7W-	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates
8)	6579.0000-6591.0000	H, V, L, R	11M5F3F	Tx	74.00	47.00	16.4		Analog Video
9)	6579.0000-6591.0000	H, V, L, R	43K8G7W-	Tx	57.40	47.00	16.4		Digital Video, Voice, and Data
10)	6579.0000-6571.0000	H, V, L, R	11M5G7W	Tx	81.60	47.00	16.4		Digital Video, Voice, and Data
11)	6551.0000-6579.0000	H, V, L, R	26M0G7W	Tx	86.00	47.90	16.4		Combination of digital carriers, various FEC rates
12)	6551.0000-6579.0000	H, V, L, R	43K8G7W-	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates
13)	6539.0000-6551.0000	H, V, L, R	11M5F3F	Tx	72.70	45.70	16.4		Analog Video
14)	6539.0000-6551.0000	H, V, L, R	11M5G7W	Tx	80.30	45.70	16.4		Digital Video, Voice, and Data
15)	6539.0000-6551.0000	H, V, L, R	43K8G7W-	Tx	56.10	45.70	16.4		Digital Video, Voice, and Data
16)	6525.0000-6539.0000	H, V, L, R	12M0G7W	Tx	85.50	50.70	16.4		Combination of digital carriers, various FEC rates
17)	6525.0000-6539.0000	H, V, L, R	43K8G7W-	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates
18)	6425.0000-6525.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Analog Video
19)	6425.0000-6525.0000	H, V, L, R	72M0G7W	Tx	86.00	43.40	16.4		Digital Video, Voice, and Data
20)	6425.0000-6525.0000	H, V, L, R	43K8G7W	Tx	66.70	56.30	16.4		Digital Video, Voice, and Data
21)	5925.0000-6425.0000	H, V, L, R	43K8G7W	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
22)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	86.00	43.50	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.



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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
23)	5925.0000-6425.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Standard Video
24)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	86.00	56.30	16.4		Digital Video, Voice and Data
25)	5925.0000-6425.0000	H, V, L, R	43K8G7W	Tx	86.00	56.30	16.4		Digital Video, Voice and Data
26)	5925.0000-6425.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Analog Video
27)	5925.0000-6425.0000	H, V, L, R	43K8G7W	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
28)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	86.00	43.50	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
29)	5925.0000-6425.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Standard Video
30)	5925.0000-6425.0000	H, V, L, R	800KFXD	Tx	77.00	54.00	16.4		TT&C Carrier
31)	5850.0000-5925.0000	H, V, L, R	43K8G7W	Tx	66.70	56.30	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
32)	5850.0000-5925.0000	H, V, L, R	72M0G7W	Tx	86.00	43.50	16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
33)	5850.0000-5925.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Standard Video
34)	5850.0000-5925.0000	H, V, L, R	72M0G7W	Tx	86.00	56.30	16.4		Digital Video, Voice and Data
35)	5850.0000-5925.0000	H, V, L, R	43K8G7W	Tx	86.00	56.30	16.4		Digital Video, Voice and Data
36)	5850.0000-5925.0000	H, V, L, R	36M0F3F	Tx	83.30	56.30	16.4		Analog Video
37)	3700.0000-4200.0000	H, V, L, R	43K8G7W	Rx			16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.



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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
38)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			16.4		Combination of digital carriers, various FEC rates, various data rates, various modulation.
39)	3700.0000-4200.0000	H, V, L, R	36M0F3F	Rx			16.4		Standard Video
40)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			16.4		Digital Video, Voice and Data
41)	3700.0000-4200.0000	H, V, L, R	43K8G7W	Rx			16.4		Digital Video, Voice and Data
42)	3700.0000-4200.0000	H, V, L, R	350KFXD	Rx			16.4		TT&C Carrier
43)	3625.0000-4200.0000	H, V, L, R	43K8G7W	Rx			16.4		Digital Video, Voice and Data
44)	3625.0000-4200.0000	H, V, L, R	36M0F3F	Rx			16.4		Analog Video
45)	3625.0000-3700.0000	H, V, L, R	72M0G7W	Rx			16.4		Digital Video, Voice and Data
46)	6596.5000-6603.5000	H, V, L, R	5M50G7W	Tx	78.50	46.40	16.4		Digital Video, Voice, and Data

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)	3600.0000-3625.0000	50.0W	190.0W	10.3	05.5	103.2	260.3		16.4
2)	6425.0000-6525.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	29.5	16.4
3)	6539.0000-6551.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	16.9	16.4
4)	6579.0000-6591.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	18.2	16.4
5)	6596.5000-6603.5000	50.0W	190.0W	10.3	05.5	103.2	260.3	17.6	16.4
6)	5850.0000-5925.0000	180.0W	186.0W	13.8	08.8	254.1	257.9	14.6	16.4
7)	3625.0000-3700.0000	50.0W	190.0W	10.3	05.5	103.2	260.3		16.4
8)	5850.0000-5925.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	29.2	16.4
9)	5925.0000-6425.0000	50.0W	60.0W	10.3	18.6	103.2	109.8	10.65	16.4
10)	5925.0000-6425.0000	180.0W	186.0W	13.8	08.8	254.1	257.9	14.6	16.4



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#	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		
11)	3700.0000-4200.0000	50.0W	190.0W	10.3	05.5	103.2	260.3		16.4
12)	5925.0000-6425.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	29.2	16.4
13)	3700.0000-4200.0000	50.0W	190.0W	10.3	05.5	103.2	260.3		16.4
14)	5925.0000-6425.0000	50.0W	190.0W	10.3	05.5	103.2	260.3	24.17	16.4
15)	6525.0000-6539.0000	55.0W	56.0W	14.5	15.3	106.4	107.1	3.34	16.4
16)	6551.0000-6579.0000	55.0W	56.0W	14.5	15.3	106.4	107.1	3.34	16.4
17)	6591.0000-6596.5000	55.0W	56.0W	14.5	15.3	106.4	107.1	3.34	16.4
18)	6603.5000-6649.0000	55.0W	56.0W	14.5	15.3	106.4	107.1	6.04	16.4
19)	6603.5000-6650.0000	55.0W	56.0W	14.5	15.3	106.4	017.1	3.34	16.4
20)	3700.0000-4200.0000	50.0W	186.0W	10.3	08.8	103.2	257.9	0	16.4
21)	5925.0000-6425.0000	50.0W	186.0W	10.3	08.8	103.2	257.9	14.5	16.4
22)	5850.0000-5925.0000	50.0W	60.0W	10.3	18.6	103.2	109.8	10.65	16.4

D) Points of Communications

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

- 1) Nuevo to Permitted Space Station List
- 2) Nuevo to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)
- 3) Nuevo to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)
- 4) Nuevo to EUTELSAT 172A (S2610) @ 174 degrees E.L. (formerly GE-23) (U.S.-licensed)
- 5) Nuevo to INTELSAT 23 (S2831) @ 53 degrees W.L. (U.S.-licensed)
- 6) Nuevo to INTELSAT 18 (S2817) @ 180 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)
Nuevo	16.4	1	16.4	Vertex Comm.	THC	550	17.4 AGL/ 567.4 AMSL	

Max Gains(s): 54.8 dBi @ 4.0000 GHz 59.0 dBi @ 6.0000 GHz
 Maximum total input power at antenna flange (Watts) = 1,000.00
 Maximum aggregate output EIRP for all carriers (dBW) = 89.00



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F) Remote Control Point:

Nuevo

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

5833 --- The operation with ALSAT shall be limited to the 5925-6425 and 3700-4200 MHz frequency bands.

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 this 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.