



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Intelsat License LLC

Call Sign: E202208

Authorization Type: License
 Non Common Carrier

File Number: SES-LIC-20201222-01428

Grant date: 10/24/2022 **Expiration Date:** 10/24/2037

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	66C Teleport Drive Brewster, WA 98812	48°8'45.6"N	119°41'50.3"W	384.67	NA

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 October 24, 2022 (3 AM Eastern Standard Time) and ending October 24, 2037 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is October 24, 2023 (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)	5850.0000-6425.0000	H, V, L, R	1M00F9D	Tx	85.98	62.00	BRW-C01		TT&C
2)	5850.0000-6425.0000	H, V, L, R	1M50F9D	Tx	86.40	60.66	BRW-C01		TT&C
3)	5850.0000-6425.0000	H, V, L, R	64K0G7W	Tx	53.49	41.45	BRW-C01		Digital data
4)	5850.0000-6425.0000	H, V, L, R	72M0G7W	Tx	84.00	41.45	BRW-C01		Digital data
5)	3700.0000-4200.0000	H, V, L, R	1M50G9D	Rx			BRW-C01		TT&C
6)	3700.0000-4200.0000	H, V, L, R	500KG9D	Rx			BRW-C01		TT&C
7)	3700.0000-4200.0000	H, V, L, R	56K0G7W	Rx			BRW-C01		Digital data
8)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			BRW-C01		Digital data
9)	6715.0000-6725.0000	H, V, L, R	1M00F9D	Tx	85.98	62.00	BRW-C02		TT&C



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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
10)	6715.0000-6725.0000	H, V, L, R	1M50F9D	Tx	87.60	61.86	BRW-C02		TT&C
11)	5850.0000-6425.0000	H, V, L, R	1M00F9D	Tx	85.98	62.00	BRW-C02		TT&C
12)	5850.0000-6425.0000	H, V, L, R	1M50F9D	Tx	87.60	61.86	BRW-C02		TT&C
13)	5850.0000-6425.0000	H, V, L, R	64K0G7W	Tx	53.49	41.45	BRW-C02		Digital data
14)	5850.0000-6425.0000	H, V, L, R	72M0G7W	Tx	84.00	41.45	BRW-C02		Digital data
15)	3700.0000-4200.0000	H, V, L, R	1M50G9D	Rx			BRW-C02		TT&C
16)	3700.0000-4200.0000	H, V, L, R	500KG9D	Rx			BRW-C02		TT&C
17)	3700.0000-4200.0000	H, V, L, R	56K0G7W	Rx			BRW-C02		Digital data
18)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			BRW-C02		Digital data
19)	5850.0000-6425.0000	H, V, L, R	1M00F9D	Tx	81.60	57.62	BRW-C05		TT&C
20)	5850.0000-6425.0000	H, V, L, R	1M50F9D	Tx	81.60	55.86	BRW-C05		TT&C
21)	5850.0000-6425.0000	H, V, L, R	64K0G7W	Tx	51.09	39.05	BRW-C05		Digital data
22)	5850.0000-6425.0000	H, V, L, R	72M0G7W	Tx	81.60	39.05	BRW-C05		Digital data
23)	3700.0000-4200.0000	H, V, L, R	1M50G9D	Rx			BRW-C05		TT&C
24)	3700.0000-4200.0000	H, V, L, R	500KG9D	Rx			BRW-C05		TT&C
25)	3700.0000-4200.0000	H, V, L, R	56K0G7W	Rx			BRW-C05		Digital data
26)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			BRW-C05		Digital data
27)	5850.0000-6425.0000	H, V, L, R	1M00F9D	Tx	81.60	57.62	BRW-C06		TT&C
28)	5850.0000-6425.0000	H, V, L, R	1M50F9D	Tx	81.60	55.86	BRW-C06		TT&C
29)	5850.0000-6425.0000	H, V, L, R	64K0G7W	Tx	51.09	39.05	BRW-C06		Digital data
30)	5850.0000-6425.0000	H, V, L, R	72M0G7W	Tx	81.60	39.05	BRW-C06		Digital data
31)	3700.0000-4200.0000	H, V, L, R	1M50G9D	Rx			BRW-C06		TT&C
32)	3700.0000-4200.0000	H, V, L, R	500KG9D	Rx			BRW-C06		TT&C
33)	3700.0000-4200.0000	H, V, L, R	56K0G7W	Rx			BRW-C06		Digital data



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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
34)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			BRW-C06		Digital 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)	5850.0000-6425.0000	53.0W	180.0W	06.7	10.8	107.8	247.0	8.56	BRW-C01
2)	3700.0000-4200.0000	53.0W	180.0W	06.7	10.8	107.8	247.0		BRW-C01
3)	6715.0000-6725.0000	53.0W	180.0W	06.7	10.8	107.8	247.0	8.57	BRW-C02
4)	5850.0000-6425.0000	53.0W	180.0W	06.7	10.8	107.8	247.0	8.56	BRW-C02
5)	3700.0000-4200.0000	53.0W	180.0W	06.7	10.8	107.8	247.0		BRW-C02
6)	3700.0000-4200.0000	53.0W	180.0W	06.7	10.8	107.8	247.0		BRW-C05
7)	5850.0000-6425.0000	53.0W	180.0W	06.7	10.8	107.8	247.0	8.99	BRW-C05
8)	5850.0000-6425.0000	53.0W	180.0W	06.7	10.8	107.8	247.0	8.99	BRW-C06
9)	3700.0000-4200.0000	53.0W	180.0W	06.7	10.8	107.8	247.0		BRW-C06

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 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 2) 1 to GALAXY 15 @ 133.1 WL (S2387) (U.S.-licensed satellite)
- 3) 1 to GALAXY 13 satellite (S2386) @ 127 degrees W.L. (U.S.-licensed)
- 4) 1 to GALAXY 12 (S2422) @ 129 W.L. (U.S.-licensed satellite)
- 5) 1 to GALAXY 18 satellite (S2733) @ 123 W.L.(U.S.-licensed satellite)
- 6) 1 to GALAXY 23 (S2592) @ 121 degrees W. L.(U.S.-licensed)
- 7) 1 to GALAXY 16 (S2687)
- 8) 1 to GALAXY 19 (S2647) @ 97 W.L. (U.S.-licensed)
- 9) 1 to GALAXY 3C (S2381) @ 95.05 W.L. (U.S.-licensed)
- 10) 1 to GALAXY 17 (S2715)
- 11) 1 to GALAXY 28 (S2160) @ 89 degrees W.L. (U.S.-licensed)
- 12) 1 to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)



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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:

- 13) 1 to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 14) 1 to INTELSAT 23 (S2831) @ 53 degrees W.L. (U.S.-licensed)
- 15) 1 to Permitted Space Station List
- 16) 1 to GALAXY 14 satellite (S2385) @ 125 W.L.(U.S.-licensed satellite)

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	BRW-C01	1	13.1	CPI Sat	13.1KPC	384.67	5.49 AGL/ 384.67 AMSL	
Max Gains(s): 53.0 dBi @ 3.9500 GHz 56.6 dBi @ 6.2500 GHz Maximum total input power at antenna flange (Watts) = 955.00 Maximum aggregate output EIRP for all carriers (dBW) = 86.40								
1	BRW-C02	1	13.1	CPI Sat	13.1THC	384.67	5.49 AGL/ 384.67 AMSL	
Max Gains(s): 53.0 dBi @ 3.9500 GHz 56.6 dBi @ 6.2500 GHz 6.7150 GHz Maximum total input power at antenna flange (Watts) = 1,259.00 Maximum aggregate output EIRP for all carriers (dBW) = 87.60								
1	BRW-C05	1	7.3	CPI Sat	7.3KXC	384.67	4.88 AGL/ 383.88 AMSL	
Max Gains(s): 48.1 dBi @ 3.9500 GHz 51.8 dBi @ 6.2500 GHz Maximum total input power at antenna flange (Watts) = 955.00 Maximum aggregate output EIRP for all carriers (dBW) = 81.60								
1	BRW-C06	1	7.3	CPI Sat	7.3KXC	384.67	4.88 AGL/ 384.67 AMSL	
Max Gains(s): 51.8 dBi @ 6.2500 GHz 48.1 dBi @ 3.9500 GHz Maximum total input power at antenna flange (Watts) = 955.00 Maximum aggregate output EIRP for all carriers (dBW) = 81.60								

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 Communications Filing System (ICFS) using the "Pleadings and Comments" link on the ICFS homepage within 10 days of the change.

6 --- Licensee must comply with the license modification application and notification requirements of 47 CFR §§ 25.117 and 25.118, as applicable, to change the coordinates of its authorized earth station.

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

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

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 section 1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 CFR §§ 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) do(es) not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b), 1.1310. 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 updated 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 satellites must comply with 47 CFR § 25.212 levels and operations above these levels must be coordinated with satellite operators prior to operations.

90642 --- Authorized frequencies to communicate with the geostationary orbit space stations listed as points of communication in Section D above are subject to the Particulars of Operations and identified frequencies included in Section B above and the licensee's application.



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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 47 CFR §§ 25.103, 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 47 CFR § 25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.

900634 --- [[Note: Intelsat seeks a waiver of NG182, which provides, in relevant part: "(b) In areas outside the contiguous United States, the band 3700-4000 MHz is also allocated to the fixed satellite service (space-to-Earth) on a primary basis. (c) In the contiguous United States, i.e., the contiguous 48 states and the District of Columbia as defined by Partial Economic Areas Nos. 1-41, 43-211, 213-263, 265-297, 299-359, and 361-411, which includes areas within 12 nautical miles of the U.S. Gulf coastline (see § 27.6(m) of this chapter), the following provisions apply: (1) Incumbent use of the fixed-satellite service (space-to-Earth) in the band 3700-4000 MHz is subject to the provisions of §§ 25.138, 25.147, 25.203(n) and part 27, subpart O of this chapter." Depending on the decision on Intelsat's pending petition for reconsideration, IB will grant in part/deny in part to match the frequencies authorized in the Order responding to the petition for recon.]]

900649 --- This Authorization is granted pursuant to Expanding Flexible Use of the 3.7 to 4.2 GHz Band, Report and Order and Order of Proposed Modification, 35 FCC Rcd. 2343, paras, 374-381 (Mar. 3, 2020) and 47 CFR Section 25.203(n).



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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 does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct 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.