



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: E4132

Authorization Type: Modification of License

File Number: SES-MOD-20180327-00279

Non Common Carrier

Grant date: 04/22/2021

Expiration Date: 04/04/2021

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	33 TELEGRAPH ROAD FILMORE, VENTURA, CA 93015	34°24'20.9"N	118°53'38.7"W	305	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 April 4, 2006 (3 AM Eastern Standard Time) and ending April 4, 2021 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is April 22, 2022 (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)	6420.0000-6425.0000	H, V, L, R	800KF2D	Tx	72.01	49.00	FF-1		COMMAND, RANGING AND TRACKING TRANSMISSION
2)	5925.0000-6425.0000	H, V, L, R	27M0F8F	Tx	73.00	46.00	FF-1		ANALOG VIDEO
3)	5925.0000-6425.0000	H, V, L, R	36M0F8F	Tx	76.00	49.00	FF-1		ANALOG VIDEO
4)	5925.0000-6425.0000	H, V, L, R	64K0G7D	Tx	55.40	43.40	FF-1		DIGITAL DATA
5)	5925.0000-6425.0000	H, V, L, R	5M00F9D	Tx	69.00	38.00	FF-1		COMMAND CARRIER
6)	5925.0000-6425.0000	H, V, L, R	750KF2D	Tx	69.00	46.20	FF-1		COMMAND CARRIER
7)	5925.0000-6425.0000	H, V, L, R	3M00G7W	Tx	67.50	38.70	FF-1		DIGITAL VIDEO & DATA
8)	5925.0000-6425.0000	H, V, L, R	54M0G7W	Tx	76.00	34.70	FF-1		DIGITAL VIDEO & DATA
9)	5925.0000-5930.0000	H, V, L, R	800KF2D	Tx	72.01	49.00	FF-1		COMMAND, RANGING AND TRACKING TRANSMISSION



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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)	4195.0000-4200.0000	H, V, L, R	200KG7W	Rx			FF-1		TELEMETRY, RANGING AND TRACKING TRANSMISSION
11)	3700.0000-4200.0000	H, V, L, R	100KF0N	Rx			FF-1		
12)	3700.0000-4200.0000	H, V, L, R	27M0F8F	Rx			FF-1		
13)	3700.0000-4200.0000	H, V, L, R	3M00G7W	Rx			FF-1		
14)	3700.0000-4200.0000	H, V, L, R	54M0G7W	Rx			FF-1		
15)	3700.0000-4200.0000	H, V, L, R	5M00F9D	Rx			FF-1		
16)	3700.0000-4200.0000	H, V, L, R	64K0G7D	Rx			FF-1		
17)	3700.0000-4200.0000	H, V, L, R	750KF2D	Rx			FF-1		
18)	3700.0000-4200.0000	H, V, L, R	82K0F3D	Rx			FF-1		
19)	3700.0000-4200.0000	H, V, L, R	36M0F8F	Rx			FF-1		ANALOG
20)	3700.0000-3705.0000	H, V, L, R	200KG7W	Rx			FF-1		TELEMETRY, RANGING AND TRACKING TRANSMISSION
21)	6666.5000-6666.5000	H, V, L, R	750KG7D	Tx	75.00	52.20	FIL-C20		COMMAND CARRIER
22)	6421.5000-6425.0000	H, V, L, R	1M20F7D	Tx	88.50	63.70	FIL-C20	90486	TT&C
23)	6421.5000-6425.0000	H, V, L, R	85K0F7D	Tx	88.50	65.20	FIL-C20	90486	TT&C
24)	5850.0000-5853.5000	H, V, L, R	1M20F7D	Tx	88.50	63.70	FIL-C20	90486	TT&C
25)	5850.0000-5853.5000	H, V, L, R	850KF7D	Tx	88.50	65.20	FIL-C20	90486	TT&C
26)	4199.2500-4199.2500	H, V, L, R	500KF7D	Rx			FIL-C20	90486	TT&C
27)	4198.7500-4198.7500	H, V, L, R	500KF7D	Rx			FIL-C20	90486	TT&C
28)	4198.2500-4198.2500	H, V, L, R	500KF7D	Rx			FIL-C20	90486	TT&C
29)	4197.7500-4197.7500	H, V, L, R	500KF7D	Rx			FIL-C20	90486	TT&C



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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	50.0W	-191.0W	08.7	-06.0	102.3	-259.7	7.76	FF-1
2)	3700.0000-4200.0000	50.0W	-191.0W	08.7	-06.0	102.3	-259.7		FF-1
3)	6666.5000-6666.5000	60.0W	-127.0W	16.9	-49.1	108.8	-194.1	4.2	FF-1
4)	6173.7000-6176.3000	190.0W	-192.0W	06.9	-05.2	259.1	-260.3	4.07	FF-1
5)	6421.5000-6425.0000	50.0W	-191.0W	08.7	-06.0	102.3	-259.7	21.67	FIL-C20
6)	5850.0000-5853.5000	50.0W	-191.0W	08.7	-06.0	102.3	-259.7	21.67	FIL-C20
7)	4197.7500-4197.7500	50.0W	-191.0W	08.7	-06.0	102.3	-259.7		FIL-C20
8)	4198.2500-4198.2500	50.0W	-191.0W	08.7	-06.0	102.3	-259.7		FIL-C20
9)	4198.7500-4198.7500	50.0W	-191.0W	08.7	-06.0	102.3	-259.7		FIL-C20
10)	4199.2500-4199.2500	50.0W	-191.0W	08.7	-06.0	102.3	-259.7		FIL-C20

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 DBSD G-1 (S2651) @ 92.85 W.L. (United Kingdom licensed)
- 3) 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	FF-1	1	10	SCIENTIFIC ATLANTA	3311	305	9.3 AGL/ 314.3 AMSL	
	Max Gains(s):		50.5 dBi @	4.0000 GHz	53.8 dBi @	6.0000 GHz		
	Maximum total input power at antenna flange (Watts) =					3,000.00		
	Maximum aggregate output EIRP for all carriers (dBW) =					88.50		
1	FIL-C20	1	10	SCIENTIFIC ATLANTA	3311	305	9.3 AGL/ 314.3 AMSL	
	Max Gains(s):		50.5 dBi @	4.0000 GHz	53.8 dBi @	6.0000 GHz		
	Maximum total input power at antenna flange (Watts) =					3,000.00		
	Maximum aggregate output EIRP for all carriers (dBW) =					88.50		



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F) Remote Control Point:

1

33 E. TELEGRAPH ROAD

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FILLMORE, VENTURA, CA 93015

805-524-4444

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.

- 224 --- PanAmSat's use of the 5925-5930 MHz, 6420-6425 MHz, 3700-3705 MHz, and 4195-4200 MHz frequency bands to communicate with the ICO-G1 satellite at 92.85° W.L. are limited to TT&C operations that cannot be accommodated within ICO-G1's service bands for on-station TT&C: 29.9955 GHz and 29.9995 GHz (command) and 20.1965 GHz and 20.1985 GHz (telemetry).
- 225 --- In the event that on-station TT&C operations cannot be conducted in the 29.9955 GHz, 29.9995 GHz, 20.1965 GHz and 20.1985 GHz frequency bands, PanAmSat may use the 5925-5930 MHz, 6420-6425 MHz, 3700-3705 MHz, and 4195-4200 MHz bands for TT&C operations, for five consecutive days, ending at 12:00 p.m. on the fifth day. If additional time is needed, PanAmSat must file a request with the Commission for special temporary authority to continue its operations for communicating with the ICO-G1 satellite.
- 226 --- PanAmSat has two days to notify the Commission, in writing, once it begins use of these frequency bands indicating the basis for commencing communications with the ICO-G1.
- 227 --- PanAmSat must coordinate its TT&C operations for the ICO-G1 satellite with any authorized satellites within two degrees of the 92.85° W.L. orbital location.
- 228 --- If the ICO-G1 satellite moves from the 92.85° W.L. orbital location or the technical information on file for the ICO-G1 satellite for the 3700-3705, 4195-4200, 5925-5930, or 6420-6425 MHz bands is modified, PanAmSat must file an application to modify this authorization.



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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:

- 229 --- PanAmSat is limited to using only the emissions specified when communicating with the ICO-G1 satellite.
- 6663 --- Per Clearance - The band 5850-5925 MHz is shared on a co-primary basis with federal systems. In accordance with the US245, this earth station transmitter has been successfully coordinated with the federal government. The federal operators have evaluated the potential interference from this earth station transmitter to their radiolocation receivers and have concluded that no unacceptable interference will occur. Any conditions placed on the earth station transmitter are included in supplementary details. Any conditions required to protect radiolocation receivers will also be included in the FCC license (S819); per clearance - This is a shared band with the federal government. In accordance with US245, the applicant is aware of the potential allocation and electromagnetic compatibility issues in the 5850-5925 MHz band, and agrees to accept this potential for unacceptable interference in accordance with footnote G2 and these fixed-satellite service operations are limited to international inter-continental satellite systems (S818).
- 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).



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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.