



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Intelsat License LLC

Call Sign: E4132

Authorization Type: Modification of License

File Number: SES-MFS-20151120-00855

Non Common Carrier

Grant date: 02/29/2016

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)	NAD	Special Provisions (Refer to Section H)
1)	1	33 TELEGRAPH ROAD FILLMORE, VENTURA, CA 93015	34°24'22.0"N	118°53'34.0"W	305	27	

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 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)	6666.5000-6666.5000	H, V, L, R	750KG7D	Tx	75.00	52.20	FF-1		COMMAND CARRIER
2)	6420.0000-6425.0000	H, V, L, R	800KF2D	Tx	72.01	49.00	FF-1		COMMAND, RANGING AND TRACKING TRANSMISSION
3)	6176.3000-6176.3000	L, R	850KFXD	Tx	74.37	51.10	FF-1	90296	COMMAND AND RANGING
4)	6173.7000-6173.7000	L, R	850KFXD	Tx	74.37	51.10	FF-1	90296	COMMAND AND RANGING
5)	5925.0000-6425.0000	H, V, L, R	27M0F8F	Tx	73.00	46.00	FF-1		ANALOG VIDEO
6)	5925.0000-6425.0000	H, V, L, R	36M0F8F	Tx	76.00	49.00	FF-1		ANALOG VIDEO
7)	5925.0000-6425.0000	H, V, L, R	64K0G7D	Tx	55.40	43.40	FF-1		DIGITAL DATA
8)	5925.0000-6425.0000	H, V, L, R	5M00F9D	Tx	69.00	38.00	FF-1		COMMAND CARRIER
9)	5925.0000-6425.0000	H, V, L, R	750KF2D	Tx	69.00	46.20	FF-1		COMMAND CARRIER



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10)	5925.0000-6425.0000	H, V, L, R	3M00G7W	Tx	67.50	38.70	FF-1		DIGITAL VIDEO & DATA
11)	5925.0000-6425.0000	H, V, L, R	54M0G7W	Tx	76.00	34.70	FF-1		DIGITAL VIDEO & DATA
12)	5925.0000-5930.0000	H, V, L, R	800KF2D	Tx	72.01	49.00	FF-1		COMMAND, RANGING AND TRACKING TRANSMISSION
13)	4195.0000-4200.0000	H, V, L, R	200KG7W	Rx			FF-1		TELEMETRY, RANGING AND TRACKING TRANSMISSION
14)	3947.0000-3953.0000	R	850KFxD	Rx			FF-1	90296	TELEMETRY, RANGING
15)	3700.0000-4200.0000	H, V, L, R	100KF0N	Rx			FF-1		
16)	3700.0000-4200.0000	H, V, L, R	27M0F8F	Rx			FF-1		
17)	3700.0000-4200.0000	H, V, L, R	3M00G7W	Rx			FF-1		
18)	3700.0000-4200.0000	H, V, L, R	54M0G7W	Rx			FF-1		
19)	3700.0000-4200.0000	H, V, L, R	5M00F9D	Rx			FF-1		
20)	3700.0000-4200.0000	H, V, L, R	64K0G7D	Rx			FF-1		
21)	3700.0000-4200.0000	H, V, L, R	750KF2D	Rx			FF-1		
22)	3700.0000-4200.0000	H, V, L, R	82K0F3D	Rx			FF-1		
23)	3700.0000-4200.0000	H, V, L, R	36M0F8F	Rx			FF-1		ANALOG
24)	3700.0000-3705.0000	H, V, L, R	200KG7W	Rx			FF-1		TELEMETRY, RANGING AND TRACKING TRANSMISSION

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



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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 DBSD G-1 (S2651) @ 92.85 W.L. (United Kingdom licensed)
- 3) 1 to INTELSAT 805 @ 169 E.L. degrees (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			

F) Remote Control Point:

1 33 E. TELEGRAPH ROAD Call Sign: E4132
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:

- 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.



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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:

- 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.
- 229 --- PanAmSat is limited to using only the emissions specified when communicating with the ICO-G1 satellite.
- 1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.
- 1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.
- 2010 --- This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.
- 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 2938 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: (1) name of the licensee, (2) file number of the application, (3) call sign of the antenna, (4) date of the license, (5) certification that the facility as authorized has been completed, (6) certification that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209, and (7) certification that the station is operational (including the date of commencement of service) and will remain operational during the license period unless the license is submitted for cancellation.
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).



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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:

5208 --- The licensee shall take all necessary measures to ensure that the antenna 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 wherever such exposures might occur. 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.

5216 --- All operations shall be on a non-common carrier basis.

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.



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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.