



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: KA275

Authorization Type: Modification of License

File Number: SES-MOD-20180418-00367

Non Common Carrier

Grant date: 04/23/2021

Expiration Date: 03/31/2024

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	17625 TECHNOLOGY BLVD HAGERSTOWN, WASHINGTON, MD 21740	39°35'55.0"N	77°45'35.0"W	164	83

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 March 31, 2009 (3 AM Eastern Standard Time) and ending March 31, 2024 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is April 23, 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)	6424.5000-6424.5000	H, V, L, R	1M20F7D	Tx	81.20	56.40	C90		TT&C
2)	6424.5000-6424.5000	H, V, L, R	850KF7D	Tx	73.70	56.40	C90		TT&C
3)	6389.0000-6391.0000	H, V, L, R	800KGXD	Tx	79.40	56.40	C90		TELEMETRY SIGNAL
4)	6359.0000-6361.0000	H, V, L, R	800KGXD	Tx	79.40	56.40	C90		TELEMETRY SIGNAL
5)	6329.0000-6331.0000	H, V, L, R	800KGXD	Tx	79.40	56.40	C90		TELEMETRY SIGNAL
6)	6271.0000-6273.0000	H, V, L, R	800KGXD	Tx	79.40	56.40	C90		TELEMETRY SIGNAL
7)	6217.0000-6219.0000	H, V, L, R	800KGXD	Tx	79.40	56.40	C90		TELEMETRY SIGNAL
8)	6176.3000-6176.3000	H, V, L, R	850KF7D	Tx	79.70	56.40	C90		TT&C
9)	6173.7000-6173.7000	H, V, L, R	850KF7D	Tx	79.70	56.40	C90		TT&C



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: KA275

Authorization Type: Modification of License

File Number: SES-MOD-20180418-00367

Non Common Carrier

Grant date: 04/23/2021

Expiration Date: 03/31/2024

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)	6172.0000-6178.0000	H, V, L, R	800KFXD	Tx	79.40	56.40	C90		TTC&M
11)	6172.0000-6178.0000	H, V, L, R	800KFXD	Tx	79.40	56.40	C90		COMMAND/RANGING
12)	6135.0000-6137.0000	H, V, L, R	800KGXD	Tx	79.40	56.40	C90		TELEMETRY SIGNAL
13)	6078.0000-6080.0000	H, V, L, R	800KGXD	Tx	79.40	56.40	C90		TELEMETRY SIGNAL
14)	5961.0000-5963.0000	H, V, L, R	800KGXD	Tx	79.40	56.40	C90		TELEMETRY SIGNAL
15)	5925.0000-6425.0000	H, V, L, R	1M50F3X	Tx	85.74	60.00	C90		TTC&M
16)	5925.0000-6425.0000	H, V, L, R	N0N	Tx	56.40	56.40	C90		TT&C RANGING
17)	5925.0000-6425.0000	H, V, L, R	1M20F7D	Tx	81.58	56.40	C90		TT&C RANGING
18)	5925.0000-6425.0000	H, V, L, R	660KF2D	Tx	79.77	56.40	C90		TT&C RANGING
19)	5925.0000-6425.0000	H, V, L, R	56K0G7W	Tx	69.06	56.40	C90		DIGITAL, DATA
20)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	94.66	52.09	C90		DIGITAL, DATA
21)	5925.0000-6425.0000	H, V, L, R	800KFXD	Tx	79.40	56.40	C90		TTC&M COMMAND AND RANGING CARRIER
22)	5853.0000-5853.0000	H, V, L, R	1M20F7D	Tx	90.30	65.50	C90		TT&C
23)	5853.0000-5853.0000	H, V, L, R	850KF7D	Tx	90.30	67.00	C90		TT&C
24)	5850.0000-5925.0000	H, V, L, R	800KGXD	Tx	90.00	67.00	C90		TTC&M
25)	4199.2500-4199.2500	H, V, L, R	500KF7D	Rx			C90		TT&C
26)	4198.7500-4198.7500	H, V, L, R	500KF7D	Rx			C90		TT&C
27)	4198.2500-4198.2500	H, V, L, R	500KF7D	Rx			C90		TT&C
28)	4197.7500-4197.7500	H, V, L, R	500KF7D	Rx			C90		TT&C
29)	3952.5000-3952.5000	H, V, L, R	500KF7D	Rx			C90		TT&C
30)	3952.0000-3952.0000	H, V, L, R	500KF7D	Rx			C90		TT&C
31)	3948.0000-3948.0000	H, V, L, R	500KF7D	Rx			C90		TT&C
32)	3947.5000-3947.5000	H, V, L, R	500KF7D	Rx			C90		TT&C



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: KA275

Authorization Type: Modification of License

File Number: SES-MOD-20180418-00367

Non Common Carrier

Grant date: 04/23/2021

Expiration Date: 03/31/2024

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
33)	3700.0000-4200.0000	H, V, L, R	1M50F3X	Rx			C90		TTC&M
34)	3700.0000-4200.0000	H, V, L, R	800KFXD	Rx			C90		TTC&M
35)	3700.0000-4200.0000	H, V, L, R	800KGXD	Rx			C90		TTC&M
36)	3700.0000-4200.0000	H, V, L, R	N0N	Rx			C90		TT&C RANGING
37)	3700.0000-4200.0000	H, V, L, R	1M20F7D	Rx			C90		TT&C RANGING
38)	3700.0000-4200.0000	H, V, L, R	56K0G7W	Rx			C90		TT&C RANGING
39)	3700.0000-4200.0000	H, V, L, R	660KF2D	Rx			C90		TT&C RANGING
40)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			C90		TT&C RANGING
41)	3700.0000-4200.0000	H, V, L, R	800KFXD	Rx			C90		TELEMETRY/RANGING
42)	3625.0000-3700.0000	H, V, L, R	1M50F3X	Rx			C90		TTC&M
43)	3625.0000-3700.0000	H, V, L, R	800KGXD	Rx			C90		TTC&M
44)	3625.0000-3700.0000	H, V, L, R	800KFXD	Rx			C90		TTC&M COMMAND AND RANGING CARRIER

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)	5961.0000-5963.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	15.35	C90
2)	6078.0000-6080.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	15.35	C90
3)	6135.0000-6137.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	15.35	C90
4)	6217.0000-6219.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	7.45	C90
5)	6329.0000-6331.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	15.35	C90
6)	6359.0000-6361.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	15.35	C90
7)	5925.0000-6425.0000	6.0W	149.0W	05.4	05.6	102.0	257.9	10.57	C90
8)	5925.0000-6425.0000	0.0W	0.0W	00.7	00.7	097.9	097.9	14.47	C90
9)	5925.0000-6425.0000	0.0W	0.0W	00.7	00.7	097.9	097.9	23.18	C90



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

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

Call Sign: KA275

Authorization Type: Modification of License

File Number: SES-MOD-20180418-00367

Non Common Carrier

Grant date: 04/23/2021

Expiration Date: 03/31/2024

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		
10)	3700.0000-4200.0000	6.0W	149.0W	05.4	05.6	102.0	257.9		C90
11)	3700.0000-4200.0000	6.0W	149.0W	05.4	05.6	102.0	257.9		C90
12)	3700.0000-4200.0000	0.0W	0.0W	00.7	00.7	097.9	097.9		C90
13)	3625.0000-4200.0000	18.5W	65.0W	14.9	42.4	110.9	160.8		C90
14)	6389.0000-6391.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	15.35	C90
15)	5850.0000-6425.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	15.35	C90
16)	6172.0000-6178.0000	6.0W	149.0W	05.4	05.6	102.0	257.9	23.18	C90
17)	6271.0000-6273.0000	18.5W	65.0W	14.9	42.4	110.9	160.8	15.35	C90
18)	6424.5000-6424.5000	6.0W	149.0W	05.3	05.7	101.9	257.8	17.03	C90
19)	5853.0000-5853.0000	6.0W	149.0W	05.3	05.7	101.9	257.8	17.03	C90
20)	6176.3000-6176.3000	6.0W	149.0W	05.3	05.7	101.9	257.8	13.03	C90
21)	6173.7000-6173.7000	6.0W	149.0W	05.3	05.7	101.9	257.8	13.03	C90

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 New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
- 3) 1 to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)
- 4) 1 to INTELSAT 23 (S2831) @ 53 degrees W.L. (U.S.-licensed)
- 5) 1 to INTELSAT AOR (S2411) @ 332.5 E.L. satellite of the INTELSAT system (U.S.-licensed)
- 6) 1 to INTELSAT 903 (S2407) @ 31.5 W.L. (U.S.-licensed)
- 7) 1 to Intelsat 904 (S2408) @ 29.5 degrees W.L. (U.S.-licensed)
- 8) 1 to INTELSAT 905 (S2409) @ 24.5 degrees W.L. (U.S.-licensed)
- 9) 1 to INTELSAT 35e (S2959) @ 34.5 degrees W.L. (U.S.-licensed)
- 10) 1 to SES-6 (S2870) @ 40.5 degrees W.L. (Netherlands-licensed)
- 11) 1 to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 12) 1 to INTELSAT 35e (S2959) @ 34.5 degrees W.L. (U.S.-licensed)
- 13) 1 to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 14) 1 to INTELSAT 903 (S2407) @ 31.5 W.L. (U.S.-licensed)
- 15) 1 to INTELSAT 901 (S2405) @ 27.5 degrees W.L. (U.S.-licensed)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: KA275

Authorization Type: Modification of License

File Number: SES-MOD-20180418-00367

Non Common Carrier

Grant date: 04/23/2021

Expiration Date: 03/31/2024

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	C90	1	19	GD SATCOM	19M CFPA	164	30 AGL/ 175.26 AMSL	
Max Gains(s):		55.6 dBi @	3.9500 GHz	59.1 dBi @	6.1750 GHz			
Maximum total input power at antenna flange (Watts) =					3,600.00			
Maximum aggregate output EIRP for all carriers (dBW) =					94.66			

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.

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.

2610 --- No harmful interference shall be caused by the operation of this station to other lawfully operated radio stations and operation of this station must be terminated immediately upon notification of harmful interference.

5738 --- This authorization is subject to the conditions and terms set forth in the Commission's Order and Authorization, FCC 99-210, released August 6, 1999, and Memorandum Opinion and Order, FCC 01-107, released March 29, 2001, and New Skies Satellites N.V., Petition for Declaratory Ruling, Order, DA 01-513 (Int'l Bureau, Satellite and Radiocommunication Division, released Mar. 29, 2001)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: KA275

Authorization Type: Modification of License

File Number: SES-MOD-20180418-00367

Non Common Carrier

Grant date: 04/23/2021

Expiration Date: 03/31/2024

H) Special and General Provisions

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

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.

5859 --- The 3650-3700 MHz band is shared on a co-primary basis in three Federal Government radiolocation systems identified in US348. Unacceptable interference may be caused to this earth station from these three radiolocation systems operating in the frequency band. Consistent with the applicant's EMC analysis (as required by US348 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 from the three stations identified in US348. 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 3650-3700 MHz, these fixed-satellite service operations are limited to international inter-continental satellite systems.

5881 --- The extended C-band frequencies 5850-5925 MHz and 3625-3700 MHz are only for use with the INTELSAT and New Skies Satellite, N.V. satellites listed in Section D (Points of Communications) of this authorization.

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.

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.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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

Call Sign: KA275

Authorization Type: Modification of License

File Number: SES-MOD-20180418-00367

Non Common Carrier

Grant date: 04/23/2021

Expiration Date: 03/31/2024

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: KA275

Authorization Type: Modification of License

File Number: SES-MOD-20180418-00367

Non Common Carrier

Grant date: 04/23/2021

Expiration Date: 03/31/2024

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.