



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Intelsat License LLC

Call Sign: KA450

Authorization Type: Renewal of License

File Number: SES-RWL-20191218-01734

Non Common Carrier

Grant date: 08/04/2020

Expiration Date: 01/26/2035

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	961 ANSELMO COURT NAPA, NAPA, CA 94558	38°14'42.7"N	122°16'48.9"W	7.92	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 January 26, 2020 (3 AM Eastern Standard Time) and ending January 26, 2035 (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)	14000.0000-14500.0000	H, V	1M36G7W	Tx	63.40	38.10	3-I/9M		DATA
2)	14000.0000-14500.0000	H, V	24M0F8F	Tx	82.20	55.20	3-I/9M		ANALOG TV/FM
3)	14000.0000-14500.0000	H, V	27M0F8F	Tx	82.70	55.70	3-I/9M		ANALOG TV/FM
4)	14000.0000-14500.0000	H, V	30M0F8F	Tx	83.10	53.10	3-I/9M		ANALOG TV/FM
5)	14000.0000-14500.0000	H, V	36M0F8F	Tx	83.90	53.90	3-I/9M		ANALOG TV/FM
6)	14000.0000-14500.0000	H, V	24M0G7F	Tx	82.20	44.40	3-I/9M		DIGITAL Compressed TV - MCPC
7)	14000.0000-14500.0000	H, V	2M70G7F	Tx	72.70	44.40	3-I/9M		DIGITAL Compressed TV - SCPC
8)	14000.0000-14500.0000	H, V	54M0G7F	Tx	85.70	44.40	3-I/9M		DIGITAL Compressed TV - MCPC



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9)	14000.0000-14500.0000	H, V	6M50G7F	Tx	76.50	44.40	3-I/9M		DIGITAL Compressed TV - SCPC
10)	14000.0000-14500.0000	H, V	8M00G7F	Tx	77.40	44.40	3-I/9M		DIGITAL Compressed TV - SCPC
11)	14000.0000-14500.0000	H, V	9M80G7F	Tx	78.30	44.40	3-I/9M		DIGITAL Compressed TV - SCPC
12)	11700.0000-12200.0000	H, V	1M36G7W	Rx	0.00	0.00	3-I/9M		DATA
13)	11700.0000-12200.0000	H, V	36M0F8F	Rx			3-I/9M		ANALOG TV/FM
14)	11700.0000-12200.0000	H, V	24M0F8F	Rx	0.00	0.00	3-I/9M		ANALOG TV/FM
15)	11700.0000-12200.0000	H, V	27M0F8F	Rx	0.00	0.00	3-I/9M		ANALOG TV/FM
16)	11700.0000-12200.0000	H, V	30M0F8F	Rx	0.00	0.00	3-I/9M		ANALOG TV/FM
17)	11700.0000-12200.0000	H, V	2M70G7F	Rx			3-I/9M		DIGITAL Compressed TV - SCPC
18)	11700.0000-12200.0000	H, V	24M0G7F	Rx	0.00	0.00	3-I/9M		DIGITAL Compressed TV - MCPC
19)	11700.0000-12200.0000	H, V	54M0G7F	Rx	0.00	0.00	3-I/9M		DIGITAL Compressed TV - MCPC
20)	11700.0000-12200.0000	H, V	6M50G7F	Rx	0.00	0.00	3-I/9M		DIGITAL Compressed TV - SCPC
21)	11700.0000-12200.0000	H, V	8M00G7F	Rx	0.00	0.00	3-I/9M		DIGITAL Compressed TV - SCPC
22)	11700.0000-12200.0000	H, V	9M80G7F	Rx	0.00	0.00	3-I/9M		DIGITAL Compressed TV - SCPC
23)	14497.6000-14498.4000	H, V	670KF1D	Tx	87.40	77.30	7-I/9M		COMMAND Wide-band FM via PAS-9
24)	14000.0000-14500.0000	H, V	1M36G7W	Tx	63.40	38.10	7-I/9M		DATA
25)	14000.0000-14500.0000	H, V	24M0F8F	Tx	82.20	55.20	7-I/9M		ANALOG TV/FM
26)	14000.0000-14500.0000	H, V	27M0F8F	Tx	82.70	55.70	7-I/9M		ANALOG TV/FM
27)	14000.0000-14500.0000	H, V	30M0F8F	Tx	83.10	53.10	7-I/9M		ANALOG TV/FM
28)	14000.0000-14500.0000	H, V	36M0F8F	Tx	83.90	53.90	7-I/9M		ANALOG TV/FM



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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
29)	14000.0000-14500.0000	H, V	24M0G7F	Tx	82.20	44.40	7-I/9M		DIGITAL Compressed TV - MCPC
30)	14000.0000-14500.0000	H, V	2M70G7F	Tx	72.70	44.40	7-I/9M		DIGITAL Compressed TV - SCPC
31)	14000.0000-14500.0000	H, V	54M0G7F	Tx	85.70	44.40	7-I/9M		DIGITAL Compressed TV - MCPC
32)	14000.0000-14500.0000	H, V	6M50G7F	Tx	76.50	44.40	7-I/9M		DIGITAL Compressed TV - SCPC
33)	14000.0000-14500.0000	H, V	8M00G7F	Tx	77.40	44.40	7-I/9M		DIGITAL Compressed TV - SCPC
34)	14000.0000-14500.0000	H, V	9M80G7F	Tx	78.30	44.40	7-I/9M		DIGITAL Compressed TV - SCPC
35)	14000.0000-14500.0000	H, V	32K0G7W	Tx	55.40	46.40	7-I/9M		DIGITAL VIDEO, AUDIO AND DATA
36)	14000.0000-14500.0000	H, V	36M0G7W	Tx	74.00	34.50	7-I/9M		DIGITAL VIDEO, AUDIO AND DATA
37)	13998.6000-13999.4000	R	670KF1D	Tx	84.00	73.90	7-I/9M		COMMAND Wide-band FM via PAS-9
38)	12750.0000-13250.0000	H, V	1M64G7W	Tx	62.00	35.90	7-I/9M		DATA via PAS-9
39)	12750.0000-13250.0000	H, V	655KG7W	Tx	60.00	37.90	7-I/9M		DATA via PAS-9
40)	12750.0000-13250.0000	H, V	82K0G7W	Tx	51.00	37.90	7-I/9M		DATA via PAS-9
41)	12750.0000-13250.0000	H, V	18M0F8F	Tx	78.00	51.00	7-I/9M		ANALOG TV/FM via PAS-9
42)	12750.0000-13250.0000	H, V	36M0F8F	Tx	81.00	51.00	7-I/9M		ANALOG TV/FM via PAS-9
43)	12750.0000-13250.0000	H, V	2M78G7F	Tx	65.00	36.60	7-I/9M		DIGITAL Compressed TV - SCPC via PAS-9
44)	12750.0000-13250.0000	H, V	36M0G7F	Tx	81.00	41.50	7-I/9M		DIGITAL Compressed TV - MCPC via PAS-9
45)	12750.0000-13250.0000	H, V	6M40G7F	Tx	68.50	36.50	7-I/9M		DIGITAL Compressed TV - SCPC via PAS-9
46)	11700.0000-12200.0000	H, V	1M36G7W	Rx	0.00	0.00	7-I/9M		DATA
47)	11700.0000-12200.0000	H, V	24M0F8F	Rx	0.00	0.00	7-I/9M		ANALOG TV/FM
48)	11700.0000-12200.0000	H, V	27M0F8F	Rx	0.00	0.00	7-I/9M		ANALOG TV/FM



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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
49)	11700.0000-12200.0000	H, V	30M0F8F	Rx	0.00	0.00	7-I/9M		ANALOG TV/FM
50)	11700.0000-12200.0000	H, V	36M0F8F	Rx	0.00	0.00	7-I/9M		ANALOG TV/FM
51)	11700.0000-12200.0000	H, V	24M0G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - MCPC
52)	11700.0000-12200.0000	H, V	2M70G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - SCPC
53)	11700.0000-12200.0000	H, V	54M0G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - MCPC
54)	11700.0000-12200.0000	H, V	6M50G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - SCPC
55)	11700.0000-12200.0000	H, V	8M00G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - SCPC
56)	11700.0000-12200.0000	H, V	9M80G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - SCPC
57)	11454.0000-11454.0000	L, R	4K00N0N	Rx			7-I/9M		UPC Beacon via PAS-9
58)	11451.9000-11452.1000	H	80K0P7D	Rx			7-I/9M		Telemetry - PM/PSK via PAS-9
59)	11450.9000-11451.1000	H	80K0P7D	Rx			7-I/9M		Telemetry - PM/PSK via PAS-9
60)	11450.0000-11700.0000	H, V	32K0G7W	Rx			7-I/9M		DIGITAL VIDEO, AUDIO AND DATA
61)	11450.0000-11700.0000	H, V	36M0G7W	Rx			7-I/9M		DIGITAL VIDEO, AUDIO AND DATA
62)	11200.0000-11450.0000	H, V	1M64G7W	Rx	0.00	0.00	7-I/9M		DATA via PAS-9
63)	11200.0000-11450.0000	H, V	655KG7W	Rx	0.00	0.00	7-I/9M		DATA via PAS-9
64)	11200.0000-11450.0000	H, V	82K0G7W	Rx	0.00	0.00	7-I/9M		DATA via PAS-9
65)	11200.0000-11450.0000	H, V	18M0F8F	Rx	0.00	0.00	7-I/9M		ANALOG TV/FM via PAS-9
66)	11200.0000-11450.0000	H, V	36M0F8F	Rx	0.00	0.00	7-I/9M		ANALOG TV/FM via PAS-9
67)	11200.0000-11450.0000	H, V	2M78G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - SCPC via PAS-9
68)	11200.0000-11450.0000	H, V	36M0G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - MCPC via PAS-9



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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
69)	11200.0000-11450.0000	H, V	6M40G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - SCPC via PAS-9
70)	10950.0000-11200.0000	H, V	32K0G7W	Rx			7-I/9M		DIGITAL VIDEO, AUDIO AND DATA
71)	10950.0000-11200.0000	H, V	36M0G7W	Rx			7-I/9M		DIGITAL VIDEO, AUDIO AND DATA
72)	10700.0000-14500.0000	H, V	1M64G7W	Rx	0.00	0.00	7-I/9M		DATA via PAS-9
73)	10700.0000-14500.0000	H, V	655KG7W	Rx	0.00	0.00	7-I/9M		DATA via PAS-9
74)	10700.0000-14500.0000	H, V	82K0G7W	Rx	0.00	0.00	7-I/9M		DATA via PAS-9
75)	10700.0000-14500.0000	H, V	18M0F8F	Rx	0.00	0.00	7-I/9M		ANALOG TV/FM via PAS-9
76)	10700.0000-14500.0000	H, V	2M78G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - SCPC via PAS-9
77)	10700.0000-14500.0000	H, V	36M0G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - MCPC via PAS-9
78)	10700.0000-14500.0000	H, V	6M40G7F	Rx	0.00	0.00	7-I/9M		DIGITAL Compressed TV - SCPC via PAS-9
79)	10700.0000-10950.0000	H, V	36M0F8F	Rx			7-I/9M		ANALOG TV/FM via PAS-9

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)	14000.0000-14500.0000	58.0W	194.0W	11.4	-05.6	106.6	-258.4	6.8	7-I/9M
2)	14497.6000-14498.4000	57.0W	59.0W	10.6	-12.2	105.9	-107.3	23.3	7-I/9M
3)	13998.6000-13999.4000	57.9W	58.0W	11.4	-11.4	106.6	-106.6	19.38	7-I/9M
4)	12750.0000-13250.0000	57.0W	59.0W	10.6	-12.2	105.9	-107.3	-2.23	7-I/9M
5)	11200.0000-11700.0000	58.0W	194.0W	11.4	-05.6	106.6	-258.4	0	7-I/9M
6)	10700.0000-10950.0000	58.0W	194.0W	11.4	-05.6	106.6	-258.4	0	7-I/9M
7)	10950.0000-11200.0000	180.0W	188.0W	16.5	-10.3	248.6	-254.4		7-I/9M
8)	11450.0000-11700.0000	180.0W	188.0W	16.5	-10.3	248.6	-254.4		7-I/9M
9)	14000.0000-14500.0000	180.0W	188.0W	16.5	-10.3	248.6	-254.4	-7.1	7-I/9M



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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		
10)	14000.0000-14500.0000	103.0W	194.0W	41.3	05.6	150.5	258.4	6.8	3-I/9M
11)	11700.0000-12200.0000	58.0W	195.0W	11.4	05.6	106.6	258.4	0	3-I/9M

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 INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 3) 1 to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 4) 1 to INTELSAT 19 (S2850) @ 166.0 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	3-I/9M	1	9	VERTEX	9 KPK	7.92	9.76 AGL/ 17.68 AMSL	
Max Gains(s): 59.6 dBi @ 11.9500 GHz 59.6 dBi @ 13.0000 GHz 60.4 dBi @ 14.2500 GHz								
Maximum total input power at antenna flange (Watts) =					1,995.00			
Maximum aggregate output EIRP for all carriers (dBW) =					93.40			
1	7-I/9M	1	9	VERTEX	9 KPK	7.92	9.76 AGL/ 17.68 AMSL	
Max Gains(s): 59.6 dBi @ 11.9500 GHz 59.6 dBi @ 13.0000 GHz 60.4 dBi @ 14.2500 GHz								
Maximum total input power at antenna flange (Watts) =					150.00			
Maximum aggregate output EIRP for all carriers (dBW) =					93.40			

F) Remote Control Point:

1

Call Sign: KA450

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 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.
- 3840 --- The use of the bands 10.7-10.95 GHz, 11.2-11.45 GHz and 12.75-13.25 GHz by the fixed-satellite service shall be in accordance with the provisions of Appendix 30B.
- 3841 --- The use of the frequency bands 10.7-11.7 GHz and 12.75-13.25 GHz in the fixed-satellite service is limited to international systems.
- 5225 --- This action constitutes the final step with respect to the provision of the services only insofar as the US regulatory process is concerned. However, this authority shall not be construed as authorizing the distribution of programming where the appropriate copyright clearances have not been obtained or where the U.S. Government has determined that appropriate copyright protection does not otherwise exist.
- 5778 --- This authorization is issued pursuant to the Commission's Order released December 9, 1999 (DA99-2752).
- 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.



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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.

900409 --- Access to satellite networks of Canada shall be in compliance with the satellite coordination agreements reached between the administration of the United States and Canada



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Expiration Date: 01/26/2035

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.