



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Federal Aviation Administration

Call Sign:

E960352

Authorization Type: Null

File Number: SES-DBM-20190311-00485

Grant date: 02/13/2020

Expiration Date: N/A

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)	freeze	(ASTI) DUTCH HARBOR, AK	53°54'16.2"N	166°32'51.4"W	78.2	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 February 13, 2020 (3 AM Eastern Standard Time) and ending 00/00/0000. 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

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)	5925.0000-6425.0000	H, V	197KG7D	Tx	57.00	33.00	Alternate		QPSK
2)	5925.0000-6425.0000	H, V	436KG7D	Tx	57.00	33.00	Alternate		QPSK
3)	3700.0000-4200.0000	H, V	197KG7D	Rx			Alternate		QPSK
4)	3700.0000-4200.0000	H, V	436KG7D	Rx			Alternate		QPSK
5)	5925.0000-6425.0000	H, V	197KG7D	Tx	57.00	33.00	Primary		QPSK
6)	5925.0000-6425.0000	H, V	436KG7D	Tx	57.00	33.00	Primary		QPSK
7)	3700.0000-4200.0000	H, V	197KG7D	Rx			Primary		QPSK
8)	3700.0000-4200.0000	H, V	436KG7D	Rx			Primary		QPSK



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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	115.0W	-115.0W	13.0	-26.6	122.7	-159.8	-22	Primary
2)	3700.0000-4200.0000	115.0W	-115.0W	13.0	-36.6	122.7	-158.8		Primary
3)	5925.0000-6425.0000	115.0W	-115.0W	13.0	-36.6	122.7	-158.8	-22	Alternate
4)	3700.0000-4200.0000	115.0W	-115.0W	13.0	-36.6	122.7	-158.8		Alternate

D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) freeze to Permitted Space Station List

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)
freeze	Alternate	1	4.5	SCIENTIFIC ATLANTA	8345	78.2	2.74 AGL/ 80.94 AMSL	
		Max Gains(s):	46.7 dBi @	6.1750 GHz	43.6 dBi @	4.0000 GHz		
		Maximum total input power at antenna flange (Watts) =				5.10		
		Maximum aggregate output EIRP for all carriers (dBW) =				53.78		
freeze	Primary	1	4.5	SCIENTIFIC ATLANTA	8345	78.2	2.74 AGL/ 80.94 AMSL	
		Max Gains(s):	46.7 dBi @	6.1750 GHz	43.6 dBi @	4.0000 GHz		
		Maximum total input power at antenna flange (Watts) =				5.10		
		Maximum aggregate output EIRP for all carriers (dBW) =				53.78		

F) Remote Control Point:

freeze

Call Sign: ZAN

ANCHORGE, ANCHORAGE BOROU, AK
907-269-1808

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

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- 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.
- 55238 --- The database entry reflects the fact that a government station has been authorized by the National Telecommunications and Information Administration and that the FCC has agreed to provide that station protection on a primary basis.
- 55239 --- The operator 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.
- 55240 --- Continued protection for this earth station will be maintained for the duration of the respective NTIA authorization.
- 55241 --- This database entry 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.
- 55242 --- This database entry is issued on the applicant'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.
- 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)



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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.

90504 --- This authorization is subject to modification to bring it into conformance with any rules or policies adopted by the Commission in the future, including the outcome of GN Docket 18-122.

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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