UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Federal Aviation Administration
Call Sign: E050299
Authorization Type: Null
File Number: SES-FBM-20190911-00484
Grant date: 11/12/2019 **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)	NAD	Special Provisions (Refer to Section H)
1)	1	AIRPORT SPUR ROAD (DLG) DILLINGHAM, AK 99576	59°0'0.2"N	158°32'53.5"W	35.7	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 November 28, 2005 (3 AM Eastern Standard Time) and ending 00/00/0000. The required date of completion of construction and commencement of operation is November 12, 2020 (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

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	297KG7D	Tx	57.00	33.00	Alternate		QPSK
2)	5925.0000-6425.0000	H,V	915KG7D	Tx	57.00	33.00	Alternate		QPSK
3)	3700.0000-4200.0000	H,V	915KG7D	Rx			Alternate		QPSK
4)	3700.0000-4200.0000	H,V	340KG7D	Rx			Alternate		QPSKrequests modification of its fixed earth station in Culver City, CA to add new antennas (C-band and Ku-band), update site coordinates, and frequencys on its existing license.
5)	5925.0000-6425.0000	H,V	297KG7D	Tx	57.00	33.00	Primary		QPSK
6)	5925.0000-6425.0000	H,V	915KG7D	Tx	57.00	33.00	Primary		QPSK

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Grant date: 11/12/2019 **Expiration Date:** N/A

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
7)	3700.0000-4200.0000	H,V	297KG7D	Rx			Primary		QPSK
8)	3700.0000-4200.0000	H,V	306KG7D	Rx			Primary		QPSK

C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.) East Limit	Satellite Arc (Deg. Long.) West Limit	Elevation (Degrees) East Limit	Elevation (Degrees) West Limit	Azimuth (Degrees) East Limit	Azimuth (Degrees) West Limit	Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
1)	5925.0000-6425.0000	115.0W-150.0W		13.5-22.6		132.0-170.0		-22	Primary
2)	3700.0000-4200.0000	115.0W-150.0W		13.5-22.6		132.0-170.0			Primary
3)	5925.0000-6425.0000	115.0W-150.0W		13.5-22.6		132.0-170.0		-22	Alternate
4)	3700.0000-4200.0000	115.0W-150.0W		13.5-22.6		132.0-170.0			Alternate

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

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	Alternate	1	4.5	SCIENTIFIC ATLANTA	8345	35.7	2.74 AGL/ 38.44 AMSL	

Max Gains(s): 43.6 dBi @ 6.0000 GHz 433.0 dBi @ 4.0000 GHz
Maximum total input power at antenna flange (Watts) = 10.70
Maximum aggregate output EIRP for all carriers (dBW) = 56.59

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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		Primary	1	4.5	SCIENTIFIC ATLANTA	8345	35.7	2.74 AGL/ 38.44 AMSL	

Max Gains(s): 46.3 dBi @ 6.0000 GHz 43.3 dBi @ 4.0000 GHz
Maximum total input power at antenna flange (Watts) = 10.70
Maximum aggregate output EIRP for all carriers (dBW) = 56.59

F) Remote Control Point:

1 **Call Sign:** ZAN

ANCHORAGE, ANCHORAGE BAROU, AK
907-269-1808

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

A)

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.

2465 --- Operation of this receive-only earth station shall be in accordance with the frequency coordination exhibit completed for this station.

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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H) Special and General Provisions

A)

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.

90407 --- Reception of downlink transmissions in Region 2 is on a non-interference, non-protected basis from the following geostationary orbit space stations: AsiaSat 7 at 105.5° E.L. in the 12.25-12.75 GHz frequency band; and IS-33e (Call Sign S2939) at 60.0° E.L. in the 12.5-12.6 GHz frequency band. Operations are not authorized in these bands over the U.S. and it territories. When receiving transmissions from these space stations in these frequency bands, the ESAA operations authorized herein must accept interference from any authorized user of the band.

90471 --- The application for this authorization was filed with a coordination report therefore operations of this earth station in the 3700-4200 MHz band are protected within the limits establish by the coordination report filed.