Approved by OMB 3060–0678

Date & Time Filed: Dec 1 2016 3:34:45:353PM File Number: SES–DBA–INTR2016–02597

City:

**Country:** 

Washington

USA

Attention: Rodney Murphy

FCC APPLICATIO	ON FOR SPACE AND EARTH STAT	ION:MOD OR AMD – MAIN FOR	M FCC Use Only				
	FCC 312 MAIN FORM FOR OFFI	CIAL USE ONLY					
APPLICANT INFO	RMATION						
Enter a description of	of this application to identify it on t	he main menu:					
Yakutat ASTI Modif	ication						
1–8. Legal Name of A	1–8. Legal Name of Applicant						
Name:	Federal Aviation Administration	Phone Number:	202–267–9501				
DBA Name:		Fax Number:	202-267-6056				
Street:	800 Independence Avenue SW	E-Mail:	rodney.murphy@faa.gov				
	Room 7E–337						

DC

20591

\_

State:

Zipcode:

Name:	Federal Aviation Administration		Phone Number:	202-267-9501
Company:			Fax Number:	202-267-6056
Street:	800 Independence Av	enue SW	E-Mail:	rodney.murphy@faa.gov
	Room 7E-337			
City:	Washington		State:	DC
<b>Country:</b>	USA		Zipcode:	20591-
Attention:	Rodney Murphy		<b>Relationship:</b>	Same
<ul> <li>a1. Earth Station</li> <li>a2. Space Station</li> </ul>	b.	5. Assignme	nt of License or Registration	
a1. Earth Station	1		fication of License or Registr nt of License or Registration	
	Ũ		of Control of License or Registication of Minor Modification	
		N/A) b8. App tellite	plication for License of New	Receive–Only Station Using Non–U.S. Licensed
	St	ates		5. Licensed Satellite to Provide Service in the United
		(N/A) b11. Provide the		to Access a Non–U.S.satellite Not Currently Authoriz posed Frequencies in the United States ry
		b13. Ame	endment to a Pending Databa	se Entry Application

**b**14. Modification of Database Entry

17c. Is a fee submitted with this application							
• If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).							
● Governmental Entity ● Noncomme	Governmental Entity O Noncommercial educational licensee						
• Other(please explain):							
17d.							
Fee Classification CGX – Fixed Satellite 7 Station	Transmit/Receive Earth						
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a					
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:					
E960358		SESDBE1996051401188					

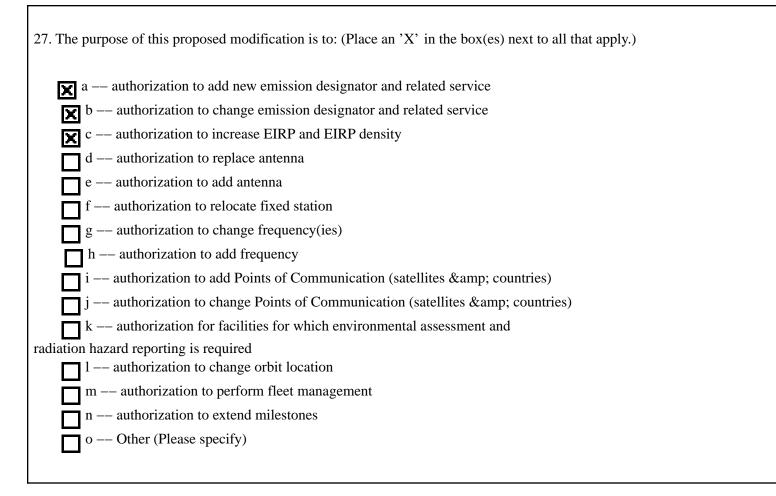
# TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	e or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier     Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
• Connected to a Public Switched Network • Not connected to a	Public Switched Network 💿 N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a	upplicable frequency band(s).
■ a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: Frequency Upper: (Please specify addition	onal frequencies in an attachment)

# TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
• b. Temporary–Fixed Earth Station
o c. 12/14 GHz VSAT Network
O d. Mobile Earth Station
• e. Geostationary Space Station
• f. Non–Geostationary Space Station
• g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit–Only Receive–Only N/A
"For Space Station applications, select N/A."

## PURPOSE OF MODIFICATION



## ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.				● Yes ● No Rad Haz			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rou	te or			
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	۲	No			
30. Is the applicant an alien or the representative of an alien?	0	Yes	۲	No	0	N/A	
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	۲	No	0	N/A	
32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	۲	No	0	N/A	

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

## BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	O Yes	le No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	● No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	● No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	O No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.



O No

Yes

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Digital Voice and Data

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	● A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	<b>О</b> <sup>В</sup>
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	<b>O</b> C

## CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)	
O Individual	
O Unincorporated Association	
• Partnership	
• Corporation	
Governmental Entity	
Other (please specify)	
	46. Title of Person Signing
Rodney Murphy	Telecommunications Specialist
>	
WILLFUL FALSE STATEMENTS MADE ON THIS FORM (U.S. Code, Title 18, Section 1001), AND/OR RE (U.S. Code, Title 47, Section 312(a)(1)), AND/OR F	VOCATION OF ANY STATION AUTHORIZATION

## SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth St	tation Site					
E1: Site Identifier:	UNK	E5. Call Sign:	E960358			
E2: Contact Name	Rodney Murphy	E6. Phone Number:	202–267–9501			
E3. Street:		E7. City:	Yakutat			
		E8. County:				
E4. State	AK	E9. Zip Code				
E10. Area of Opera	tion:	Yakutat, AK				
E11. Latitude:	59 °30 '7.3 "N					
E12. Longitude:	139 °41 '17.1 "W					
E13. Lat/Lon Coord	dinates are:	ONAD−27	NAD-83	O N/A		
E14. Site Elevation	(AMSL):	15.8 meters	-	-		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	• Yes	<b>O</b> <sup>No</sup>	O <sup>N/A</sup>

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O <sup>No</sup>	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as Freq Report	۲	Yes	0	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

#### POINTS OF COMMUNICATION

Satellite Name: PERMITTED LIST     If you selected OTHER, please enter the following:						
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
POINTS OF COMMUNICATION (Destination Points)						
E25. Site Identifier:						

E26. Common Name:	E27. Country:

# ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
UNK	Primary	1	SES	4.5 meter	4.5	43.3 dBi at 4.0
UNK	Primary	1	SES	4.5 meter	4.5	46.3 dBi at 6.0
UNK	Alternate	1	SES	4.5 meter	4.5	43.3 dBi at 4.0
UNK	Alternate	1	SES	4.5 meter	4.5	46.3 dBi at 6.0

E28. Antenna Id		E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Primary	0.0/0.0	2.74	7.54	0.0	8.5548	0.0	55.855
Alternate	0.0/0.0	2.74	7.54	0.0	8.5548	0.0	55.855

# FREQUENCY

 E43/44. Frequency Bands		E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
(MHz)	L,R)	(dBW)	Carrier (dBW/4kHz)

Primary	3700	4200	R	Horizontal and Vertical	613KG7D	0.0	0.0
E50. Modulat entirety.)	ion and Service	es (If th	he complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
QPSK							
Primary	5925	6425	Т	Horizontal and Vertical	613KG7D	57.0	33.0
QPSK							
Alternate	3700	4200	R	Horizontal and Vertical	613KG7D	0.0	0.0
E50. Modulat entirety.)	ion and Service	es (If th	he complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
QFSR							

Alternate	5925	6425	Т	Horizontal and Vertical	613KG7D	57.0	33.0		
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)									
QPSK									

# FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Primary	Geostationary	5925 6425	115.0/150.0	151.9	19.3	191.9	21.9	32.8
Alternate	Geostationary	5925 6425	115.0/150.0	151.9	19.3	191.9	21.9	32.8

## REMOTE CONTROL POINT LOCATION

E61. Call Sign ZAN NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E66. Phone Number 907–269–1808
E62. Street Address	

E63. City	E68. County	E67/68.	E64. Zip Code
Anchorage	Anchorage Borou	State/Country	
		AK/ USA	

#### FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.