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Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Ku-band VSAT Application

1	l−8. l	Legal	Name	of A	App]	licant	
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Name: Tri State Generation & Phone Number: 303–452–6111

Transmission Assoc., Inc.

DBA Fax Number: 303–254–6068

Name:

Street: P. o. Box 33695 E-Mail: jselman@tristategt.org

City: Denver State: CO

Country: USA Zipcode: 80233 -

Attention:

9–16. Name of Contact Representative

Name: Tri State Generation & Phone Number: 303–452–6111

Transmission Assoc., Inc.

Company: Fax Number: 303–254–6068

Street: P. o. Box 33695 E-Mail: jselman@tristategt.org

City: Denver State: CO

Country: USA Zipcode: 80233-

Attention: Relationship:

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b. a. a. a1. Earth Station (N/A) a2. Space Station	 b. b1. Application for License of New Station b2. Application for Registration of New Domestic Receive—Only Station (N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive—Only Station Using Non—U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non—U.S. Licensed Satellite to Provide Service in the United States b10. Other (Please specify) b11. Application for Earth Station to Access a Non—U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States. b12. Application for Database Entry (N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modifiction of Database Entry 			
17c. Is a fee submitted with this application If Yes, complete and attach FCC Form	on? 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).			
Ofther(please explain):	rcial educational licensee			
7d. Fee Classification BGV – Fixed Satellite VSAT System				

18. If this filing is in reference to an existing station, enter: (a) Call sign of station: Not Applicable 19. If this filing is an amendment to a pending application enter: (a) Date pending application was filed: (b) File number of pending application: Not Applicable Not Applicable
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TYPE OF SERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provide	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
O Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER sefacilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
O Connected to a Public Switched Network Not connected to	o a Public Switched Network

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable 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:
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
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non-Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one.
Transmit/Receive Transmit-Only Receive-Only N/A
PURPOSE OF MODIFICATION
27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
Not Applicable

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 Exhibit B
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical fixed radio station services are not required to respond to Items 30–34.	utical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O No
30. Is the applicant an alien or the representative of an alien?	Yes No N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O No 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?	Yes No 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?	O Yes ● N	To O N/A
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.	○ Yes	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.	○ 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.	O Yes	⊘ 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 Ac 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. S 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	ct of) No			
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Ye 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.) No			
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?					
		1			
43. Description. (Summarize the nature of the application and the services to be provided). not appear in this box, please go to the end of the form to view it in its entirety.)	(If the complete description	on does			
See Description of Operation in Exhibit A Exhibit A					
LAMORTI					

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.	O B
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.	o 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.

o Individual				
Unincorporated Association				
O Partnership				
© Corporation				
Governmental Entity				
Other (please specify)				
_				
45. Name of Person Signing		46. Title of Person Signing		
45. Name of Person Signing Jeff D. Selman P.E.		46. Title of Person Signing Telecom and System Protection Engine	eering Manager	
			eering Manager	
Jeff D. Selman P.E.	uts.		eering Manager	
	nts. Attachment 2:		eering Manager	
Jeff D. Selman P.E. 47. Please supply any need attachmen		Telecom and System Protection Engine	eering Manager	
Jeff D. Selman P.E. 47. Please supply any need attachmen		Telecom and System Protection Engine	eering Manager	
Jeff D. Selman P.E. 47. Please supply any need attachmen Attachment 1:	Attachment 2:	Telecom and System Protection Engine		

Location of Earth Station Site

E1: Site Identifier: Westminster E5. Call Sign:

E2: Contact Name Leopoldo Barrios E6. Phone 303–254–3432

Number:

E3. Street: 1100 West 116th E7. City: Westminster

Street

E8. County: Adams

E4. State CO E9. Zip Code 80234

E10. Area of Operation: Western United States

E11. Latitude: 39 °54 '21.9 "N

E12. Longitude: 105 °0 '1.9 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 1645.3 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	O No	O N/A
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 No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	s 💿	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	s 💿	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	s 💿	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.	O Yes	s 🔞	No
POINTS OF COMMUNICATION			
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you selected OTHER, please enter the followin	g:		

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 GainTransmint and/or Recieve (dBi atGHz)
Westminster	Hub 1	1	Prodelin Corporation	1383	3.8	51.7 dBi at 11.950
						52.2 dBi at 14.250

E28. Antenna Id	Diameter	E35. Above Ground Level (meters)	(meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
Hub 1	0.0/0.0	9.4	1654.7	5.5	4.0	3.9	58.2

FREQUENCY

E28. Antenna Id	E43/44.	E45. T/R Mode	E46. Antenna	E47. Emission	E48. Maximum	E49. Maximum
	Frequency Bands		Polarization(H,V,	Designator	EIRP per Carrier	ERIP Density per
	(MHz)		L , R)		(dBW)	Carrier
						(dBW/4kHz)

Hub 1	11700.0 12200.0	R	Horizontal and Vertical	1M00G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
Hub 1	14000.0 14500.0	Т	Horizontal and Vertical	1M00G7D	58.2	34.2
E50. Modulation entirety.) Digital Da	<u> </u>	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

E28. Antenna Id	l	Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station	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)
Hub 1	Geostationary	11700.0 12200.0	60.0/ 143.0	122.7	25.0	230.6	29.6	0.0

	Geostationary	14000.0 14500.0	60.0/ 143.0	122.7		25.0	230.6	29.6	-22.7
REMOTE CO	NTROL POIN	T LOCATION	•	•			•	•	•
E61. Call Si	gn				E65	. Phone Number	•		
	ase enter the calls ich this application	•	•	t the					
E63. City			E67. County	y			E64/68. State/Country	E66	. Zip Code

Location of Earth Station Site

E1: Site Identifier: Frederick E5. Call Sign:

E2: Contact Name Leopoldo Barrios E6. Phone 303-254-3432

Number:

E3. Street: 3770 Puritan Way, E7. City: Frederick

Unit K

E8. County: Weld

E4. State CO E9. Zip Code 80530

E10. Area of Operation: Western United States

E11. Latitude: 40 °4 '54.3 "N

E12. Longitude: 104 °59 '7.5 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 1534.4 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.	⊗ Ye	ès i	O No	O N/A
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 Ye	es i	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Y	Zes .	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Y	/es	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Y	Zes .	•	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.	1	/es	•	No
POINTS OF COMMUNICATION	-			
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you selected OTHER, please enter the following	g:			

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 GainTransmint and/or Recieve (dBi atGHz)
Frederick	Hub 2	1	Prodelin Corporation	1383	3.8	51.7 dBi at 11.950
						52.2 dBi at 14.250

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	(meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
Hub 2	0.0/0.0	9.4	1543.8	5.5	4.0	3.9	58.2

FREQUENCY

E28. Antenna Id	E43/44.	E45. T/R Mode	E46. Antenna	E47. Emission	E48. Maximum	E49. Maximum
	Frequency Bands		Polarization(H,V,	Designator	EIRP per Carrier	ERIP Density per
	(MHz)		L , R)		(dBW)	Carrier
						(dBW/4kHz)

Hub 2	11700.0 12200.0	R	Horizontal and Vertical	1M00G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
Hub 2	14000.0 14500.0	Т	Horizontal and Vertical	1M00G7D	58.2	34.2
E50. Modulation entirety.) Digital Da	<u> </u>	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

E28. Antenna Id	1	Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle		E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub 2	Geostationary	11700.0 12200.0	60.0/ 143.0	122.8	24.9	230.5	29.5	0.0

	Geostationary	14000.0 14500.0	60.0/ 143.0	122.8		24.9	230.5	29.5	-20.8	
REMOTE CO	NTROL POIN	T LOCATION		•					•	
E61. Call Si	gn				E65	. Phone Num	ıber			
	se enter the calls ich this application			t the						
E62. Street A	Address									
E63. City			E67. County	/			E64/68. State/Country	ту	E66. Zip Code	:

Location of Earth Station Site

E1: Site Identifier: Remote 1 E5. Call Sign:

E2: Contact Name Leopoldo Barrios E6. Phone 303-254-3432

Number:

E3. Street: Various Locations E7. City:

Throughout the

Western United E8. County:

States

E4. State E9. Zip Code

E10. Area of Operation: Western United States

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 0.0 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	O No	O N/A
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?	0,	Yes	O No	⊗ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0	Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit D	0	Yes	0	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.		Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you selected OTHER, please enter the following	g:			

E21. Common N	lame	e:					E22. ITU	Name:				
E23. Orbit Locat	tion:	:					E24. Cou	ntry:				
POINTS OF	CC	MMUNICAT	ION	(Destination	Points)	•					
E25. Site Identif	ier:											
E26. Common N	lame	e:					E27. Cou	ntry:				
ANTENNA												
			E29. Quant	ity	E30. Manufac	E31. Model turer		Iodel	E32. Antenna Size <meters></meters>		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)	
Remote 1		Remote 1		200		Mica Tecl	1	LDR-	FA2	0.52 29.0		29.0 dBi at 11.950
												29.0 dBi at 14.250
E28. Antenna Id	Di M	33/34. iameter linor/Major neters)	Gro	el 	E36. A Level< (meter	BR>	E37. Buil Height A Ground Level <bi (meters)</bi 	bove	E38. Total Input Powe antenna flange (Watts)	r at	E39. Maximum Antenna Heig Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
Remote 1 FREQUENCY	1 -	0/0.0	2.0		0.0		0.0		0.4		0.0	25.0
		E45. T/R M	ode	E46. Anto Polarizat L,R)		E47. E Design	mission aator		Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)		

Remote 1	11700.0 12200.0	R	Horizontal and Vertical	1M00G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ıta					
Remote 1	14000.0 14500.0	Т	Horizontal and Vertical	1M00G7D	25.0	1.0
E50. Modulation entirety.) Digital Da	,	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

E28. Antenna Id		Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle	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)
Remote 1	Geostationary	11700.0 12200.0	60.0/ 143.0	0.0	5.0	0.0	5.0	0.0

	Geostationary	14000.0 14500.0	60.0/ 143.0	0.0		5.0	0.0	5.0	-26.3			
REMOTE CO	REMOTE CONTROL POINT LOCATION											
E61. Call Si	ign				E65	. Phone Num	ber					
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. E62. Street Address												
E63. City			E67. County	7			E64/68. State/Countr	у	E66. Zip C	ode		

Location of Earth Station Site

E1: Site Identifier: Remote 2 E5. Call Sign:

E2: Contact Name Leopoldo Barrios E6. Phone 303–254–3432

Number:

E3. Street: Various Locations E7. City:

Throughout the

Western United E8. County:

States

E4. State E9. Zip Code

E10. Area of Operation: Western United States

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 0.0 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 asExhibit H a technical analysis showing compliance with two–degree spacing policy.	O Ye	es	⊚ No	O N/A
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 Ye	es	O No	⊘ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Y	Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O 7	Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as Exhibit F	0 7	Yes	•	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.		Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you selected OTHER, please enter the following	g:			

E21. Common N	Vame:	:					E22. ITU	Name:				
E23. Orbit Locar	tion:						E24. Cou	ntry:				
POINTS OF	COI	MMUNICATI	ON	(Destination	Points	3)						
E25. Site Identif	ier:											
E26. Common N	Vame:	:					E27. Cou	ntry:				
ANTENNA							•					
		E29. Quant	ity	E30. Manufac	E31. Model		Iodel	E32. Antenna Size <meters></meters>		E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)		
Remote 2	I	Remote 2		50		Mica Tecl	ı	LDR-l	FA3	0.26		26.0 dBi at 11.9
												26.0 dBi at 14.2
E28. Antenna Id	Dia Mi	3/34. ameter nor/Major eters)	Gro	el 	E36. A Level< (meter		E37. Buil Height A Ground Level <bi (meters)</bi 	bove	E38. Total Input Powe antenna flange (Watts)		E39. Maximum Antenna Heig Above Rooftop (meters)	E40. Total EIRP for al carriers <br (dBW)</br
Remote 2 FREQUENCY)/0.0	2.0		0.0		0.0		0.08		0.0	15.0
E28. Antenna Id E43/44. Frequency Bands (MHz)		E45. T/R M	ode	E46. Anto Polarizat L,R)		E47. E Design	mission aator		Maximum P per Carrier W)	E49. Maximum ERIP Density p Carrier (dBW/4kHz)		

Remote 2	11700.0 12200.0	R	Horizontal and Vertical	1M00G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
Remote 2	14000.0 14500.0	Т	Horizontal and Vertical	1M00G7D	15.0	-9.0
E50. Modulation entirety.) Digital Da		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

E28. Antenna Id	I	Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Remote 2	Geostationary	11700.0 12200.0	60.0/ 143.0	0.0	5.0	0.0	5.0	0.0

	Geostationary	14000.0 14500.0	60.0/ 143.0	0.0	5.0	0.0	5.0	-33.3
REMOTE CONTROL POINT LOCATION								
E61. Call Sign					E65. Phone Number			
	se enter the calls ich this applicati			ot the				
E63. City			E67. Coun	ty		E64/68 State/Cour		E66. Zip Code

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