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Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY FCC 312 MAIN FORM

APPLICANT INFORMATION

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

Vsat – Manassas

Name:	TeleCommunication Systems	Phone Number:	410–263–7616	
DBA Name:		Fax Number:	410–280–1048	
Street:	275 West Street	E-Mail:		
	Suite 400			
City:	Annapolis	State:	MD	
Country:	USA	Zipcode:	21401 –	
Attention:	Chris Rusco			

9–16. Name of Contact Representative

Name: Chris Rusco Phone Number: 410–280–4841

Company: TeleCommunication Systems **Fax Number:** 410–280–4912

Street: 1333 Ashton Road E–Mail: satcom@telecomsys.com

City: Hanover State: MD

Country: USA Zipcode: 21076–

Attention: Chris Rusco Relationship: Engineer

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
17d. Fee Classification BGV – Fixed Satellite V	SAT 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

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 RadHaz
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.	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?	O Yes O No N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O No O 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?	O Yes O 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 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.	Yes	O No
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 Yes	No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station?	/hat administr	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the context not appear in this box, please go to the end of the form to view it in its entirety.) Vsat system for operation with mutilple locations throughout the United Stat territories.	complete desc	·

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.

Individual			
 Unincorporated Association 			
O Partnership			
Corporation			
Governmental Entity			
Other (please specify)			
-			
45. Name of Person Signing		46. Title of Person Signing	
Chris Rusco		Sr Communications Engineer	
47. Please supply any need attachm	nents.		
47. Please supply any need attachm Attachment 1:	nents. Attachment 2:	Attachment 3:	
		Attachment 3:	
		Attachment 3:	
Attachment 1:	Attachment 2:	Attachment 3: DRM ARE PUNISHABLE BY FINE AND / OR IMPRIS	ONMENT

Location of Earth Station Site

E1: Site Identifier: HUB9.3 E5. Call Sign:

E2: Contact Name Chris Rusco E6. Phone 410–280–4902

Number:

E3. Street: 10211 Piper Lane E7. City: Manassas

E8. County: Prince William

E4. State VA E9. Zip Code 22110

E10. Area of Operation: CONUS, HI, AK and all US territories

E11. Latitude: 38 °43 '56.3 "N

E12. Longitude: 77 °31 '50.5 "W

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

E14. Site Elevation (AMSL): 58.52 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.	⊚ Yes	s 0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	§ ⊚	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	· •	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 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)
HUB9.3	Hub9.3	2	Vertex	9.3KP	9.3	59.3 dBi at 11.950
						60.8 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)
Hub9.3	0.0/0.0	10.0	68.52	0.0	277.0	0.0	85.22

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)

Hub9.3	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If	the complete de	escription does not appear	in this box, please	go to the end of the	he form to view it in its
Digital,	various data 1	rates, vari	ous FEC, various m	nodulation, v	arious infor	rmation
Hub9.3	11700 12200	R	Horizontal and Vertical	405KG7W	0.0	0.0
Digital,	various data 1	rates, vari	ous FEC, various m	lodulation, v	arious inior	macion
Hub9.3	14000 14500	Т	Horizontal and Vertical	36M0G7W	85.22	45.68
E50. Modulation entirety.)	n and Services (If	the complete de	escription does not appear	in this box, please	go to the end of the	he form to view it in its
Digital,	various data 1	rates, vari	ous FEC, various m	nodulation, v	arious infor	rmation

Hub9.3	14000	T	Horizontal and	405KG7W	66.73	45.68
	14500		Vertical			

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.)

Digital, various data rates, various FEC, various modulation, various information

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Antenna Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub9.3	Geostationary	11700 12200	18.0/ 143.0	110.2	14.9	254.1	10.3	0.0
	Geostationary	14000 14500	18.0/ 143.0	110.2	14.9	254.1	10.3	-8.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E65. Phone Number 410–280–4841
E62. Street Address	

16

1333 Ashton Road

E63. City Hanover	E67. County Anne Arundel	E64/68. State/Country MD/ USA	E66. Zip Code 21076
		MD/ OSA	

Location of Earth Station Site

E1: Site Identifier: HUB7.6 E5. Call Sign:

E2: Contact Name Chris Rusco E6. Phone 410–280–4902

Number:

E3. Street: 10211 Piper Lane E7. City: Manassas

E8. County: Prince William

E4. State VA E9. Zip Code 22110

E10. Area of Operation: CONUS, AK, HI and all US Territories

E11. Latitude: 38 °43 '56.8 "N

E12. Longitude: 77 °31 '49.0 "W

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

E14. Site Elevation (AMSL): 60.6 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.	⊚ Yes	s 0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	§ ⊚	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	· •	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 following	g:		

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufactur	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)		
E26. Common Nan ANTENNA	ne:		E2	27. Country:				
E25. Site Identifier	:							
POINTS OF C	OMMUNICATION	(Destination Poin	nts)					
E23. Orbit Location	ո:		E2	24. Country: USA				
E21. Common Nan	ne:		E2	E22. ITU Name:				

KU

7.6

57.7 dBi at 11.95

59.4 dBi at 14.25

ASC

Id	Diameter	E35. Above Ground Level (meters)	(meters)	0	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
Hub7.6	0.0/0.0	8.0	68.6	0.0	277.0	0.0	83.82

FREQUENCY

HUB7.6

Hub7.6

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)

	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	ne form to view it in its
Digital	, various FEC,	various modu	ulation, various i	information		
Hub7.6	11700 12200	R	Horizontal and Vertical	405KG7W	0.0	0.0
			ulation, various i			
Hub7.6	14000 14500	Т	Horizontal and Vertical	36M0G7W	83.82	44.28
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	ne form to view it in its
Digital	, various FEC,	various modu	ulation, various i	Information		

Hub7.6	14000		405MG7W	64.25	44.28
	14500	Vertical			

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.)

Digital, various FEC, various modulation, various information

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	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)
Hub7.6	Geostationary	11700 12200	18.0/ 143.0	110.2	14.9	254.1	10.3	0.0
	Geostationary	14000 14500	18.0/ 143.0	110.2	14.9	254.1	10.3	-8.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E65. Phone Number 410–280–4841
E62. Street Address	

E62. Street Address 1333 Ashton Road

E63. City Hanover	E67. County Anne Arundel	E64/68. State/Country MD/ USA	E66. Zip Code 21076
		MD/ OSA	

Location of Earth Station Site

E1: Site Identifier: HUB7.2 E5. Call Sign:

E2: Contact Name Chris Rusco E6. Phone 410–280–4902

Number:

E3. Street: 12011 Piper Lane E7. City: Manassas

E8. County: Prince William

E4. State VA E9. Zip Code 22110

E10. Area of Operation: CONUS, HI, AK and all US Territories

E11. Latitude: 38 °43 '56.7 "N

E12. Longitude: 77 °31 '47.8 "W

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

E14. Site Elevation (AMSL): 62.5 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.	⊚ Yes	s 0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	§ ⊚	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	· •	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 following	g:		

E21. Common N	Name:				E22. ITU Name:					
E23. Orbit Loca	tion:				E24. Country: USA					
POINTS OF	COMMUNICAT	ΓΙΟΝ (Destina	ation Points	s)	<u> </u>					
E25. Site Identif	fier:									
E26. Common N	Name:				E27. Country:					
ANTENNA					l					
Site ID	E28. Antenna	i Id E29. Q	uantity	E30. Manufac	turer	E31. N	fodel		Antenna <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
HUB7.2	Hub7.2	1		Vertex		7.2M		7.2		56.5 dBi at 11.95
										58.1 dBi at 14.25
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	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 (dBW)

FREQUENCY

0.0/0.0

8.0

Hub7.2

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)

0.0

70.8

277.0

0.0

82.05

Hub7.2	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulat entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
Digital,	, various data	. rates, vari	ous FEC, various	modulation, v	rarious info	rmation
Hub7.2	11700 12200	R	Horizontal and Vertical	405KG7W	0.0	0.0
Digitai,	, various data	rates, vari	ous FEC, various	modulation, v	arious inio	rmation
Hub7.2	14000 14500	Т	Right Hand Circular	405KG7W	0.0	0.0
E50. Modulat entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in its
Digital,	, various data	rates, vari	ous FEC, various	modulation, v	arious info	rmation

Hub7.2	14000	T	Horizontal and	36M0G7W	82.52	42.98
	14500		Vertical			

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.)

Digital, various data rates, various FEC, various modulation, various information

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	Antenna Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub7.2	Geostationary	11700 12200	18.0/ 143.0	110.2	14.9	254.1	10.3	0.0
	Geostationary	14000 14500	18.0/ 143.0	110.2	14.9	254.1	10.3	-8.3

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E65. Phone Number 410–280–4841
E62. Street Address 1333 Ashton Road	

E63. City Hanover	E67. County Anne Arundel	E64/68. State/Country MD/ USA	E66. Zip Code 21076
		MD/ USA	

Location of Earth Station Site

E1: Site Identifier: Remote1.2 E5. Call Sign:

E2: Contact Name Chris Rusco E6. Phone 410–280–4902

Number:

E3. Street: E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS, AK, HI and all US Territories

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?	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.	⊚ Yes	s 0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	§ ⊚	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	· •	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 following	g:		

E21. Common Name:				E22. ITU Name:						
E23. Orbit Location:					E24. Cou	ntry:				
POINTS OF	COMMUNICATI	ON (Destination	n Points	s)						
E25. Site Identif	ier:									
E26. Common N	Name:				E27. Cou	ntry:				
ANTENNA					1					
Site ID	E28. Antenna I	E29. Quant	tity	E30. Manufac	turer	E31. N	Model		<meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote1.2	Remote1.2	1000		Channel I	Master	123		1.2	4	41.8 dBi at 11.95
									4	43.3 dBi at 14.25
E28. Antenna Id	Diameter Minor/Major	E35. Above Ground Level (meters)	E36. A Level< (meter	 	E37. Bui Height A Ground Level <b! (meters)</b! 	bove	E38. Total Input Powe antenna flange (Watts)		E39. Maximum Antenna Heigh Above Rooftop 	E40. Total EIRP for al carriers (dBW)

FREQUENCY

0.0/0.0

1.8

0.0

Remote1.2

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)
	Frequency Bands	Frequency Bands	Frequency Bands Polarization(H,V,	Frequency Bands Polarization(H,V, Designator	Frequency Bands Polarization(H,V, Designator L,R) EIRP per Carrier (dBW)

0.0

25.0

(meters)

57.28

0.0

Remote1.2	11700 12200	R	Horizontal and Vertical	30M0G7W	0.0	0.0
E50. Modula entirety.)	ation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
Digital	, various FEC	, various data	a rates, various i	information		
Remote1.2	14000 14500	Т	Horizontal and Vertical	405KG7W	49.35	29.3
Remote1.2	14000 14500	T	Horizontal and Vertical	8M00G7W	57.28	24.27
E50. Modula entirety.)	ation and Services	(If the complete de	escription does not appear		go to the end of th	e form to view it in its
Diaital			+	'f		
Digital	., various FEC	, various dat	a rates, various i	information		

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	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)
Remote1.2	Geostationary	11700 12200	18.0/ 143.0	110.2	6.0	254.1	6.0	0.0
	Geostationary	14000 14500	18.0/ 143.0	110.2	6.0	254.1	6.0	-8.2

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	_	E65. Phone Number 410–280–4841		
E62. Street Address 1333 Ashton Road				
E63. City Hanover	E67. County Anne Arundel		E64/68. State/Country MD/ USA	E66. Zip Code 21076

Location of Earth Station Site

E1: Site Identifier: Remote1.8 E5. Call Sign:

E2: Contact Name Chris Rusco E6. Phone 410–280–4902

Number:

E3. Street: E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS, AK, HI and all US territories

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?	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.	⊚ Yes	s 0	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 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)
Remote1.8	1.8	1000	Channel Master	184	1.8	44.9 dBi at 11.95
						46.6 dBi at 14.25

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)
1.8	0.0/0.0	2.2	0.0	0.0	25.0	0.0	60.58

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)
	Frequency Bands	Frequency Bands	Frequency Bands Polarization(H,V,	Frequency Bands Polarization(H,V, Designator	Frequency Bands Polarization(H,V, Designator L,R) EIRP per Carrier (dBW)

	11700 12200	R	Horizontal and Vertical	30M0G7W	0.0	0.0
E50. Mod ntirety.)	lulation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	ne form to view it in its
Digit	al, various FEC	, various data	a rates, various :	information		
.8	14000 14500	Т	Horizontal and Vertical	405KG7W	52.65	32.6
	14000 14500	Т	Horizontal and Vertical	8M00G7W	60.58	27.57
.8	14500		verticai			
	lulation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	ne form to view it in its

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
1.8	Geostationary	11700 12200	18.0/ 143.0	110.2	6.0	254.1	6.0	0.0
	Geostationary	14000 14500	18.0/ 143.0	110.2	6.0	254.1	6.0	-8.0

E61. Call Sign	E65. Phone Number			
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

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

Location of Earth Station Site

E1: Site Identifier: Remote2.4 E5. Call Sign:

E2: Contact Name Chris Rusco E6. Phone 410–280–4902

Number:

E3. Street: E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS, AK, HI and all US Territories

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	s 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	s O No	⊗ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	● Ye	es O	, No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	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 Ye	es 💿	. 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 Ye	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)
Remote2.4	Remote2.4	1000	Channel Master	244	2.4	47.4 dBi at 11.95
						49.1 dBi at 14.25

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)
Remote2.4	0.0/0.0	3.0	0.0	0.0	25.0	0.0	63.0

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)

Remote2.4	11700 12200	R	Horizontal and Vertical	30M0G7W	0.0	0.0
E50. Modulat entirety.)	ion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
Digital,	various FEC	various modu	ulation, various i	nformation		
Remote2.4	14000 14500	Т	Horizontal and Vertical	405KG7W	55.15	35.1
Remote2.4	14000 14500	Т	Horizontal and Vertical	8M00G7W	63.08	30.7
E50. Modulat entirety.)	ion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
	 various FEC	 various modu	ulation, various i	nformation		

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Remote2.4	Geostationary	11700 12200	18.0/ 143.0	110.2	6.0	254.1	6.0	0.0
	Geostationary	14000 14500	18.0/ 143.0	110.2	6.0	254.1	6.0	-8.0

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		E65. Phone Number 410–280–4841		
E62. Street Address 1333 Ashton Road				
E63. City Hanover	E67. County Anne Arundal		E64/68. State/Country MD/ USA	E66. Zip Code 21076

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

Location of Earth Station Site

E1: Site Identifier: Remote2.0 E5. Call Sign:

E2: Contact Name Chris Rusco E6. Phone 410–280–4902

Number:

E3. Street: E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS, AK, HI and all US Territories

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?	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.	⊚ Ye	s 0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	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 Ye	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 Ye	s 🔞	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)
Remote2.0	Remote2.0	50	AVL	2062	2.0	45.7 dBi at 11.95
						47.5 dBi at 14.25

Id	Diameter	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	0	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
Remote2.0	0.0/0.0	3.0	0.0	0.0	25.0	0.0	61.48

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)
						(ub W/4KIIZ)

Remote2.0	11700 12200	R	Horizontal and Vertical	30M0G7W	0.0	0.0
E50. Modulation entirety.)	on and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
Digital,	various FEC	, data rate,	information, modul	Lation		
Remote2.0	14000 14500	Т	Horizontal and Vertical	405KG7W	53.55	33.5
Digital,	various FEC	, data rate,	information, modul	lation		
Remote2.0	14000 14500	Т	Horizontal and Vertical	8M00G7W	61.48	28.47
E50. Modulation entirety.)	on and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
Digital,	various FEC	, data rate,	information, modul	lation		

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Remote2.0	Geostationary	11700 12200	18.0/ 143.0	110.2	6.0	254.1	6.0	0.0
	Geostationary	14000 14500	18.0/ 143.0	110.2	6.0	254.1	6.0	-8.2

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.		E65. Phone Number 410–280–4841		
E62. Street Address 1333 Ashton Road				
E63. City Hanover	E67. County Anne Arundel		E64/68. State/Country MD/ USA	E66. Zip Code 21076

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

Location of Earth Station Site

E1: Site Identifier: Remote1.0 E5. Call Sign:

E2: Contact Name Chris Rusco E6. Phone 410–280–4902

Number:

E3. Street: E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS, AK, HI and all US Territories

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 1.0Meter a technical analysis showing compliance with two–degree spacing policy.	O Yes	s 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	s O No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	⊚ Ye	s o	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	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 Ye	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 Ye	s 📵	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	-

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Remote1.0	Remote1.0	50	AVL	1010	1.0	39.7 dBi at 11.95
						41.6 dBi at 14.25

Id	Diameter	E35. Above Ground Level (meters)	(meters)	0	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
Remote1.0	0.0/0.0	1.5	0.0	0.0	25.0	0.0	55.58

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)

Remote1.0	11700 12200	R	Horizontal and Vertical	30M0G7W	0.0	0.0
E50. Modulation entirety.)	on and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
Digital,	various FEC	, information	, modulation			
Remote1.0	14000 14500	Т	Horizontal and Vertical	405KG7W	45.85	25.78
Digital,	various FEC	, information	, modulation			
Remote1.0	14000 14500	Т	Horizontal and Vertical	8M00G7W	55.58	22.57
E50. Modulation entirety.)	on and Services	(If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
Digital,	various FEC	, information	, modulation			

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	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)
Remote1.0	Geostationary	11700 12200	18.0/ 143.0	110.2	6.0	254.1	6.0	0.0
	Geostationary	14000 14500	18.0/ 143.0	110.2	6.0	254.1	6.0	-7.8

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E65. Phone Number 410–280–4841			
E62. Street Address 1333 Ashton Road				
E63. City Hanover	E67. County Anne Arundel		E64/68. State/Country MD/ USA	E66. Zip Code 21076

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