Date & Time Filed: Jun 12 2006 4:06:22:030PM File Number: SES-MOD-INTR2006-01551

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	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:

VSAT Modification

Virginia, Commonwealth of	Phone Number: Fax Number:	804–371–5212 804–786–4177
	Fax Number:	804–786–4177
110 South 7th Street	E-Mail:	david.warner@vita.virginia.gov
VITA-ODU		
Richmond	State:	VA
ry: USA	Zipcode:	23219 –
ion: David R Warner		
tı	VITA-ODU Richmond try: USA	VITA-ODU Richmond State: try: USA Zipcode:

9–16. Name of Contact Representative

Name: Tim Ehrilch Phone Number: 757–683–4482

Company: Old Dominion University **Fax Number:** 757–683–3176

Street: 404 Gornto Building E–Mail: TEhrlich@odu.edu

43rd & Hampton

City: Norfolk State: VA

Country: USA Zipcode: 23529–

Attention: Tim Ehrilch **Relationship:** Other

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.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

 $\ \ \, \bigcirc \ \, (N/A)$ b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

b5. Assignment of License or Registration

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

(N/A) b10. Other (Please specify)

17c. Is a fee submitted with this applicati		47.GER 9. 3. 4.1114)				
o 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 Noncommercial educational licensee						
Other(please explain):						
17d.						
Fee Classification CGV – Fixed Satellite VSAT System						
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:	application enter both fields, if this filing is a				
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:				
E950449		SESRWL2005081001090				

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	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 s facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
O 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	pplicable 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	nal frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button	next to the class of sta	tion that applies. Choose only	one.	
a. Fixed Earth Station				
o b. Temporary–Fixed Earth Station				
o. 12/14 GHz VSAT Network				
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/Δ		
Transmit/Receive Transmit-Only "For Space Station applications, select N/A."	O Receive—Only	O 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.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

under the laws of a foreign country?

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.		Radia	ation	Haza	ard	
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeror aeronautical fixed radio station services are not required to respond to Items 30–34.	nautic	al en	rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	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	<u>_</u>	Yes		No	<u></u>	N/A

Yes No

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

aliens or their representatives or by a foreign government or representative thereof or by any corporation organized

		
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 •	No 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.	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.	• 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	• 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	⊘ 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.	• 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	ation has

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.)

This application is for authorization to modify Commonwealth of Virginia's existing Hub earth station license (call sign E950449) to include a proposed VSAT network consisting of 1.2-meter and 1.8-meter antennas to be located throughout the CONUS, AK, and HI (but primarily in the state of Virginia). The proposed VSAT network will be used to provide

Exh B-Pwr Dens.Calcs

CERTIFICATION

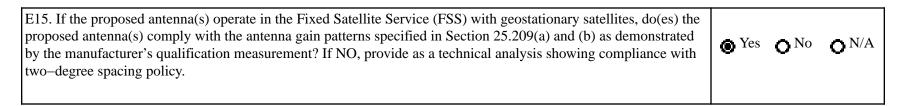
The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The 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.

, <u>,</u>	· · · · · · · · · · · · · · · · · · ·	6
44. Applicant is a (a	n): (Choose the button next to applicable response.)	
 Individual Unincorporated Partnership Corporation Governmental I Other (please specified) 	Entity	
45. Name of Per- David R. Warner		46. Title of Person Signing Telecommunications Engineer

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

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:	Hub	E5. Call Sign:	E950449		
E2: Contact Name	Tim Ehrlich	E6. Phone Number:	757–683–4482		
E3. Street:	404 Gornto Building	E7. City:	Norfolk		
	43rd & Hampton Blvd.	E8. County:	Norfolk		
E4. State	VA	E9. Zip Code	23529		
E10. Area of Operation:		Norfolk, VA			
E11. Latitude:	36 °53 '0.1 "N				
E12. Longitude:	76 °18 '16.0 "W				
E13. Lat/Lon Coord	linates are:	● NAD-27	O NAD-83	O N/A	
E14. Site Elevation	(AMSL):	21.0 meters			



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	O Yes	O No	⊚ N/A	
E17. Is the facility operated by remote control? If YES, provide the loca point.	ntion and telephone number of the control	O Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the recoordination contours as	name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	Yes	0	No	
POINTS OF COMMUNICATION		•		
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you s	elected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)	•			·
E25. Site Identifier: Hub				

E26. Common Name:	E27. Country: USA

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 atGHz)	
Hub	Hub	1	Comsat – RSI	551KS	5.5	55.0 dBi at 12.0	
Hub	Hub	1	Comsat – RSI	551KS	5.5	56.3 dBi at 14.0	

Id	Diameter		, ,	Height Above Ground Level	E38. Total Input Power at antenna flange (Watts)	U	EIRP for al
Hub	0.0/0.0	24.0	27.0	0.0	40.0	0.0	71.8

FREQUENCY

	E43/44. Frequency Bands (MHz)			Designator	EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Hub	11700 12200	R	Horizontal and Vertical	210KG7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its				
Digital Vo	ice, Data, and	Fax								
Hub	11700 12200	R	Horizontal and Vertical	4M10G7W	0.0	0.0				
entirety.)	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 Voice, Data, and Fax									
Hub	14000 14500	Т	Horizontal and Vertical	210KG7W	58.4	42.3				
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 Voice, Data, and Fax										
Hub	14000 14500	Т	Horizontal and Vertical	4M10G7W	71.2	42.3				

E50. Modulation entirety.)	and Services (I	f the complete d	lescription does not appear	in this box, please	go to the end of t	the form to view it in its
Digital Vo	ice, Data, a	nd Fax				
Hub	11700 12200	R	Horizontal and Vertical	9M24G7W	0.0	0.0
E50. Modulation entirety.) QPSK Compr	and Services (I		lescription does not appear	in this box, please	go to the end of t	the form to view it in its
Hub	14000 14500	Т	Horizontal and Vertical	9M24G7W	71.8	39.4
E50. Modulation entirety.) QPSK Compr	and Services (I		lescription does not appear	in this box, please	go to the end of t	the form to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern 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)
Hub	Geostationary	11700 12200	60.0/143.0	154.0	43.9	255.5	9.9	0.0
	Geostationary	14000 14500	60.0/143.0	154.0	43.9	255.5	9.9	-9.9

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country	E64. Zip Code

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

Location of Earth St	ation Site				
E1: Site Identifier:	1.2-Meter Remotes	E5. Call Sign:			
E2: Contact Name	Tim Ehrlich	E6. Phone Number:	757–683–4482		
E3. Street:	CONUS, AK, HI	E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	tion:	CONUS, AK, HI			
E11. Latitude:	0 °0 '0.0 "N				
E12. Longitude:	0 °0 '0.0 "W				
E13. Lat/Lon Coord	linates are:	NAD-27	O NAD-83	O 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 locat point.	• Yes	O No	
E18. Is frequency coordination required? If YES, attach a frequency coordination	rdination report as	• Yes	No
E19. Is coordination with another country required? If YES, attach the na coordination contours as	O Yes	No	
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RAPPLICATION.	Yes	O No	
POINTS OF COMMUNICATION		!	
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you se	elected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:			
POINTS OF COMMUNICATION (Destination Points)			
E25. Site Identifier: 1.2–Meter Remotes			
E26. Common Name: ANTENNA	E27. Country: USA		

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 atGHz)
1.2–Meter Remotes	1.2–Meter	100	Patriot	1.2m Tx/Rx VSAT	1.2	43.6 dBi at 14.5
1.2–Meter Remotes	1.2–Meter	100	Patriot	1.2m Tx/Rx VSAT	1.2	41.8 dBi at 11.725

Id	Diameter		,	Height Above Ground Level	Input Power at antenna flange	U	EIRP for al
1.2–Meter	0.0/0.0	0.0	0.0	0.0	3.6	0.0	49.1

FREQUENCY

	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1.2-Meter	11700 12200	R	Horizontal and Vertical	1M01G7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
Digital Vo	ice, Data, and	Fax				
1.2-Meter	11700 12200	R	Horizontal and Vertical	1M52G7W	0.0	0.0
E50. Modulation entirety.) Digital Vo	and Services (If th		on does not appear in	this box, please go to	o the end of the form	to view it in its
1.2–Meter	11700 12200	R	Horizontal and Vertical	250KG7W	0.0	0.0
E50. Modulation entirety.) Digital Vo	and Services (If the		on does not appear in	this box, please go to	the end of the form	to view it in its
1.2-Meter	11700 12200	R	Horizontal and Vertical	500KG7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Vo	ice, Data, and	Fax				
1.2-Meter	14000 14500	Т	Horizontal and Vertical	1M01G7W	49.1	26.2
E50. Modulation entirety.) Digital Vo	ice, Data, and		on does not appear in	this box, please go to	o the end of the form	to view it in its
1.2-Meter	14000 14500	Т	Horizontal and Vertical	1M52G7W	49.1	24.4
E50. Modulation entirety.) Digital Vo	and Services (If the		on does not appear in	this box, please go to	o the end of the form	to view it in its
1.2-Meter	14000 14500	Т	Horizontal and Vertical	250KG7W	46.3	29.4

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 Voice, Data, and Fax

1.2–Meter	14000	Т	Horizontal and	500KG7W	49.1	29.2
	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 Voice, Data, and Fax

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)
1.2-Meter	Geostationary	11700 12200	60.0/143.0	90.0	5.0	270.0	5.0	0.0
	Geostationary	14000 14500	60.0/143.0	90.0	5.0	270.0	5.0	-2.6

REMOTE CONTROL POINT LOCATION

E61. Call Sign E950449 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 757–683–4482			
E62. Street Address 404 Gornto Building 43rd & Hampton				
E63. City Norfolk	E68. County Norfolk		E67/68. State/Country VA/ USA	E64. Zip Code 23529

SATELLITE EARTH STATION AUTHORIZATIONS

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

Location of Earth St	ation Site				
E1: Site Identifier:	1.8–Meter Remotes	E5. Call Sign:			
E2: Contact Name	Tim Ehrlich	E6. Phone Number:	757–683–4482		
E3. Street:	CONUS, AK, HI	E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	tion:	CONUS, AK, HI			
E11. Latitude:	0 °0 '0.0 "N				
E12. Longitude:	0 °0 '0.0 "W				
E13. Lat/Lon Coord	linates are:	NAD-27	O NAD-83	O 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 locat point.	ion and telephone number of the control	Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency coordination	dination report as	O Yes	No
E19. Is coordination with another country required? If YES, attach the na coordination contours as	ame of the country(ies) and plot of	O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA' the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL R APPLICATION.	s study regarding the potential hazard of	Yes	O No
POINTS OF COMMUNICATION		!	
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you se	lected OTHER, please enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
POINTS OF COMMUNICATION (Destination Points)			
E25. Site Identifier: 1.8–Meter Remotes			
E26. Common Name:	E27. Country: USA		

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 atGHz)
1.8–Meter Remotes	1.8–Meter	100	Andrew	62–18356–01C	1.8	46.9 dBi at 14.5
1.8–Meter Remotes	1.8-Meter	100	Andrew	62–18356–01C	1.8	45.3 dBi at 11.95

E28. Antenna Id			` ′	Height Above	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
1.8-Meter	0.0/0.0	0.0	0.0	0.0	3.6	0.0	52.4

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1.8-Meter	1400 14500	Т	Horizontal and Vertical	500KG7W	52.4	32.5

E50. Modulation entirety.)	and Services (If th	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its			
Digital Vo	ice, Data, and	Fax							
1.8-Meter	11700 12200	R	Horizontal and Vertical	1M01G7W	0.0	0.0			
E50. Modulation entirety.) Digital Vo	and Services (If the		on does not appear in	this box, please go to	o the end of the form	to view it in its			
1.8-Meter	11700 12200	R	Horizontal and Vertical	1M52G7W	0.0	0.0			
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.) Digital Voice, Data, and Fax									
1.8-Meter	11700 12200	R	Horizontal and Vertical	3M04G7W	0.0	0.0			

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its			
Digital Vo	ice, Data, and	Fax							
1.8-Meter	11700 12200	R	Horizontal and Vertical	500KG7W	0.0	0.0			
E50. Modulation entirety.) Digital Vo	ice, Data, and		on does not appear in	this box, please go to	o the end of the form	to view it in its			
1.8-Meter	14000 14500	T	Horizontal and Vertical	1M01G7W	52.4	29.5			
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 Voice, Data, and Fax									
1.8-Meter	14000 14500	Т	Horizontal and Vertical	1M52G7W	52.4	27.7			

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 Voice, Data, and Fax

1	1.8–Meter	14000	T	Horizontal and	3M04G7W	52.4	24.7
		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 Voice, Data, and Fax

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern 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)
1.8-Meter	Geostationary	11700 12200	60.0/143.0	90.0	5.0	270.0	5.0	0.0
	Geostationary	14000 14500	60.0/143.0	90.0	5.0	270.0	5.0	-2.8

REMOTE CONTROL POINT LOCATION

E61. Call Sign E950449 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 757–683–4482			
E62. Street Address 404 Gornto Building 43rd & Hampton Blvd				
E63. City Norfolk	E68. County Norfolk		E67/68. State/Country VA/ USA	E64. Zip Code 23529

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43. Description. (Summarize the nature of the application and the services to be provided).

This application is for authorization to modify Commonwealth of Virginia's existing Hub earth station license (call sign E950449) to include a proposed VSAT network consisting of 1.2-meter and 1.8-meter antennas to be located throughout the CONUS, AK, and HI (but primarily in the state of Virginia). The proposed VSAT network will be used to provide distance learning technology to numerous higher education institutes throughout the United States.