Date & Time Filed: Dec 6 2007 5:00:14:456PM File Number: SES-MOD-INTR2007-02922

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: Modification of VSAT Network System, E070223

Wiodification of VSAT Network System, E0/0223							
1–8. Legal Name of Applicant							
Name	Intelsat LLC	Phone Number:	202–944–7848				
DBA Name:	:	Fax Number:	202–944–7870				
Street	c/o Intelsat Corporation	E-Mail:	susan.crandall@intelsat.com				
	3400 International Drive	e, N.W.					
City:	Washington	State:	DC				
Count	ry: USA	Zipcode:	20008 -3006				
Attent	ion: Susan H Crandall						

9–16. Name of Contact Representative

Name: Intelsat LLC Phone Number: 202–944–7848

Company: Fax Number: 202–944–7870

Street: c/o Intelsat Corporation E–Mail: susan.crandall@intelsat.com

3400 International Drive, N.W.

City: Washington State: DC

Country: USA **Zipcode:** 20008–3006

Attention: Susan H Crandall Relationship: Legal Counsel

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

b3. Amendment to a Pending Application

b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

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)

(N/A) 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

(N/A) b12. Application for Database Entry

b 13. Amendment to a Pending Database Entry Application

b14. Modification of Database Entry

17c. Is a fee submitted with this applicat The image of the submitted with this applicate and attach FCC Form	ion? 159. If No, indicate reason for fee exemption	n (see 47 C.F.R.Section 1.1114).			
Governmental Entity Noncommo	Governmental Entity Noncommercial educational licensee				
Other(please explain):					
17d.					
Fee Classification CGV – Fixed Satellite	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 pendin modification please enter only the file number	g application enter both fields, if this filing is a er:			
(a) Call sign of station: E070223					
E070223		SESLIC2007091401279			

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

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.		Exhil	oit D			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronaeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	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?	0	Yes	0	No	•	N/A

O Yes O 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

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?	٥	Yes	0	No	⊚ 1	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.		o `	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)
	Exh	ibit E				

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?	vhat administr	ration 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.)

Intelsat LLC seeks to modify its E070223 Ku-band VSAT authorization to add a higher power carrier on the 96cm terminal, for communication with Galaxy 17/Horizons 2 at 74.05 W.L. All other licensed parameters remain unchanged. See also Exhibit A.

Exhibit A

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.

44. Applicant is a (an): (Choose the button next to appli	icable response.)
Individual	
 Unincorporated Association 	
Partnership	
Corporation	
O Governmental Entity	
Other (please specify)	
-	
45. Name of Person Signing	46. Title of Person Signing
Susan H. Crandall	Asst. General Counsel, Intelsat Corporation
>	•

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 St	ation Site				
E1: Site Identifier:	96QS	E5. Call Sign:			
E2: Contact Name	Robert Phillips	E6. Phone Number:	240-420-8999		
E3. Street:	CONUS	E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	tion:	CONUS			
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coordinates are:		O NAD-27	O 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.	O Yes	⊚ No	O N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Ser Satellite Service (FSS) with non–geostationary satellites, do(es) the program patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the local point.	tion and telephone number of the control	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	rdination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the national 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 FAPPLICATION.	s's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: OTHER OTHER If you selected OTHER, please er	nter the following:			
E21. Common Name: Galaxy 17/Horizons 2	E22. ITU Name: USASAT			
E23. Orbit Location: 74.05 W.L.	E24. Country: USA			

Satellite Name: ALSAT | ALL AUTHORIZED U.S. | ALSAT | If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: 96QS	
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)
96QS	96QS	200	Channel Master (AVL Technologies)	960 AVSAT	0.96	39.7 dBi at 11.95
96QS	96QS	200	Channel Master (AVL Technologies)	960 AVSAT	0.96	41.2 dBi at 14.25

Id			,	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
96QS	0.96/0.96	2.96	0.0	0.0	7.94	0.0	50.2

FREQUENCY

E43/44. Frequency Bands				E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
(MHz)	1/11 (01) 1/1040	L,R)	2 congruence	(dBW)	Carrier
					(dBW/4kHz)

96QS	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If t	the complete de	scription does not appear	in this box, please	go to the end of t	he form to view it in its
NULL						
96QS	11700 12200	R	Horizontal and Vertical	3M00G7W	0.0	0.0
entirety.) NULL						
96QS	14000 14500	Т	Horizontal and Vertical	6M66G1W	50.2	17.99
E50. Modulation entirety.) IP Video		the complete de	scription does not appear	in this box, please	go to the end of t	he form to view it in its

96QS	14000 14500	Т	Horizontal and Vertical	830KG1W	43.25	20.08
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
IP Video &	Data					
96QS	14000 14500	Т	Horizontal and Vertical	830KG1W	44.2	21.03
E50. Modulation entirety.) IP Video &	,	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	I	Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	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)
96QS	Geostationary	11700 12200	16.0/143.0	246.77	11.95	246.77	11.95	0.0

	Geostationary	14000 14500	16.0/143.0	246.77	11.95	246.77	11.95	-15.8			
REMOTE CO	NTROL POIN	T LOCATION					•				
E61. Call Sign E66. Phone Number											
	NOTE: Please enter the callsign of the controlling station, not the allsign for which this application is being filed.										
E62. Street A	E62. Street Address										
E63. City			E68. County	У		E67/68. State/Country	E64	. Zip Code			
							•				
			m 312 – Schedu		UTHORIZATIO and Operational E ONLY						

Location of Earth St	ation Site				
E1: Site Identifier:	120QS	E5. Call Sign:			
E2: Contact Name	Robert Phillips	E6. Phone Number:	240-420-8999		
E3. Street:	CONUS	E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	ion:	CONUS			
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	linates are:	O 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 locat point.	ion and telephone number of the control	O Yes	No
E18. Is frequency coordination required? If YES, attach a frequency coordinate	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 RAPPLICATION.	s study regarding the potential hazard of	O Yes	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:			
E26. Common Name:	E27. Country:		

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
120QS	120QS	200	Prodelin	1210 USA	1.2	41.61 dBi at 11.95	
120QS	120QS	200	Prodelin	1210 USA	1.2	43.17 dBi at 14.25	

- 1	Id	Diameter		` ′	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
	120QS	0.0/0.0	3.2	0.0	0.0	25.0	0.0	57.15

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
120QS	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0

T-50 N. 1.1.	1.0 ' (TC.1	1 . 1	1 .	.1.1.1	1 1 0 1 0	
E50. Modulation	and Services (If th	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
entirety.)						
IP Video &	Data					
120QS	11700 12200	R	Horizontal and Vertical	3M00G7W	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
IP Video &	Data					
120QS	14000 14500	Т	Horizontal and Vertical	10M3G1W	57.15	23.04
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
IP Video &	Data					
120QS	14000 14500	Т	Horizontal and Vertical	1M25G1W	51.15	26.25

E50. Modula entirety.)	ntion and Service	es (If the comp	plete description	does not appear	in this box, plea	se go to the end	of the form to vi	ew it in its
IP Vide	o & Data	ΓΙΟΝ						
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)

246.77

246.77

11.95

11.95

246.77

246.77

11.95

11.95

0.0

-11.908

REMOTE CONTROL POINT LOCATION

Geostationary

Geostationary

11700

12200

14000 14500 16.0/143.0

16.0/143.0

E61. Call Sign	E66. Phone Number			
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country	E64. Zip Code

120QS

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

Location of Earth S	tation Site				
E1: Site Identifier:	HUB	E5. Call Sign:	E970139		
E2: Contact Name	Robert Phillips	E6. Phone Number:	240-420-8999		
E3. Street:	16725 Technology Boulevard	E7. City:	Hagerstown		
		E8. County:	Washington		
E4. State	MD	E9. Zip Code	21740		
E10. Area of Opera	tion:	Fixed			
E11. Latitude:	39 °25 '57.49 "N				
E12. Longitude:	77 °45 '18.43 "W				
E13. Lat/Lon Coord	dinates are:	○ NAD-27	● NAD-83	O N/A	
E14. Site Elevation	(AMSL):	164.805 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.

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.	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 FAZ the structure to aviation? Exhibit C FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you s	selected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)	1			
E25. Site Identifier: HUB				

E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
HUB	MTN-K13	1	VERTEX	13KPK	13.1	62.5 dBi at 12
HUB	MTN-K13	1	VERTEX	13KPK	13.1	63.8 dBi at 14

Id	Diameter		,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
MTN-K13	13.1/13.1	15.1	179.805	0.0	464.2	0.0	90.47

FREQUENCY

	E43/44. Frequency Bands (MHz)				E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
MTN-K13	11700 12200	R	Horizontal and Vertical	64KG7W	0.0	0.0

E50. Modulation	and Services (If the	ne complete description	on does not appear in	this hox please go to	o the end of the form	to view it in its
entirety.)	and betvices (ii ti	ie complete descriptiv	on does not appear in	tins box, pieuse go t	o the end of the form	to view it in its
T	deo and Data					
MTN-K13	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.) Digital Vi	deo and Data			71 0	o the end of the form	
MTN-K13	14000 14500	Т	Horizontal and Vertical	36M0G7W	85.0	45.45
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 Vi	deo and Data					
MTN-K13	14000 14500	Т	Horizontal and Vertical	64K0G7W	61.8	49.8

entirety.) Digita	lation and Servic l Video and Y COORDINA	Data	plete description	does not appear	in this box, plea	se go to the en	d of the form	m to view it in its
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	n EIRP Density toward the
MTN-K13	Geostationary	11700 12200	16.0/143.0	108.87	12.92	253.65	10.28	0.0
	Geostationary	14000 14500	16.0/143.0	108.87	12.92	253.65	10.28	-7.2
REMOTE CO	ONTROL POIN	T LOCATION		•		•	•	
callsign for wh	ase enter the calls				. Phone Number			
E62. Street	Address							
E63. City			E68. County	у		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:	75QS	E5. Call Sign:			
E2: Contact Name	Robert Phillips	E6. Phone Number:	240-420-8999		
E3. Street:	CONUS	E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	tion:	CONUS			
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	linates 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.	O Yes	⊚ No	O N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Ser Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Ye	s	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the loca point.	tion and telephone number of the control	O Y	es	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Y	es	•	No
E19. Is coordination with another country required? If YES, attach the n coordination contours as	name of the country(ies) and plot of	O Y	es	•	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 I APPLICATION.	a's study regarding the potential hazard of	O Y	es	•	No
POINTS OF COMMUNICATION		!			
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you so	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:					

E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
75QS	75QS	200	Channel Master (AVL Technologies)	750 iMoVSAT	0.75	37.8 dBi at 11.95	
75QS	75QS	200	Channel Master (AVL Technologies)	750 iMoVSAT	0.75	39.3 dBi at 14.25	

Id	Diameter		, ,	Height Above	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
75QS	0.62/0.89	2.75	0.0	0.0	8.12	0.0	48.4

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
75QS	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0

E50. Modulation	and Services (If th	e complete description	on does not annear in	this how please go to	the end of the form	to view it in its
entirety.)	and services (if the	ic complete description	on does not appear in	tills box, picase go to	o the cha of the form	to view it in its
IP Video &	Data					
75QS	11700 12200	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation entirety.) IP Video &	· ·	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
75QS	14000 14500	Т	Horizontal and Vertical	4M33G1W	48.4	18.06
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
IP Video &	Data					
75QS	14000 14500	Т	Horizontal and Vertical	540KG1W	42.3	21.0

E50. Modula entirety.)	ation and Service	es (If the comp	plete description	does not appear	in this box, plea	se go to the end	of the form to vi	iew it in its
	o & Data							
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	E59. Antenna Elevation Angle Western	E60. Maximum EIRP Density toward the Horizon

246.77

246.77

11.95

11.95

16.0/143.0

16.0/143.0

Limit

11.95

11.95

Limit

246.77

246.77

0.0

-13.23

(dBW/4kHz)

REMOTE CONTROL POINT LOCATION

Geostationary

Geostationary

11700

12200

14000 14500

E61. Call Sign		E66. Phone Number				
NOTE: Please enter the callsign of the control callsign for which this application is being filed.						
E62. Street Address						
E63. City	E68. County		E67/68. State/Country	E64. Zip Code		

75QS

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