Date & Time Filed: Jun 13 2005 6:22:36:593PM File Number: SES-LIC-INTR2005-01290

Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

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

QuickSpot application — refile (H1)

1-8	. Legal	Name	of App	licant
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Name: PanAmSat Licensee Corp. Phone Number: 202–292–4300

DBA Fax Number: 202–292–4378

Name:

Street: 1801 K Street, N.W. E-Mail:

Suite 440

City: Washington State: DC

Country: USA Zipcode: 20006 -

Attention: Mr Kalpak S Gude Esq

9–16. Name of Contact Representative

Name: Joseph A. Godles, Esq. Phone Number: 202–429–4900

Company: Goldberg Godles Wiener & Wright **Fax Number:** 202–429–4912

Street: 1229 19th Street NW E–Mail: jgodles@g2w2.com

City: Washington State: DC

Country: USA **Zipcode:** 20036–2413

Attention: Attorney 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.

a.

a1. Earth Station

(N/A) a2. Space Station

b.

b1. Application for License of New Station

6 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)

o 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.

17c. Is a fee submitted with this application	ion?					
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): No fee required for refiling per DA 05–1027						
17d.						
Fee Classification BGV – Fixed Satellite V	SAT System					
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pendin					
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number of pending application:				
Not Applicable	Not Applicable	Not Applicable				
TYPE OF SERVICE						
20. NATURE OF SERVICE: This filing is for	or an authorization to provide or use the follow	wing 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						

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 sfacilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected	to a Public Switched Network
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:	
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)	
g. Other (piease specify)	
26. TYPE OF EARTH STATION FACILITY: Choose only one.	
Transmit/Receive Transmit-Only Receive-Only N/A	L

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	O Yes O No
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.	Rad Haz
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	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 O N/A

31. Is the applicant a corporation organized under the laws of any foreign government?	Yes No 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?	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?	Yes No No 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.	Rad Haz
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 O No
	Rad Haz

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 Rad Haz	O 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	• Yes Antenna	⊚ 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 Antenna	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.	Antenna	
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 Engineering	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued coordinated or is in the process of coordinating the space station? Japan	l, what 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.)

Applicant seeks new VSAT authority to operate a network of antennas on Horizons I (at 127 WL).

Description

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.

11	Applicant	100	(an).	Choose the	hutton next	to applicable	racnonca)
44.	Аррисані	18 a 1	(an). ((Choose the	button next	to applicable	response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing Kalpak Gude		46. Title of Person Signing VP & Associate General Counsel		
47. Please supply any need attachmen				
Attachment 1: Ques 36	Attachment 2:		Attachment 3:	

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).

Location of Earth Station Site

E1: Site Identifier: 96QS E5. Call Sign:

E2: Contact Name Mark Ratcliff E6. Phone 404–381–2000

Number:

E3. Street: Contiguous United E7. City: Same

States

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

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

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 Yo	es	● No	(O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Ye	es	O No	(N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0,	Yes	•) N	No
E10 Is for successive discretion as a similar discreti					
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0,	Yes	€	N	10
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0,	Yes	•	, N	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	1	Yes	•	N	V o
POINTS OF COMMUNICATION	-				
Satellite Name: HORIZONS 1 HORIZONS 1 127 DEG WL If you selected OTHER, please enter the following	ng:				

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier:	
E26. Common Name:	E27. Country:
A NITENNI A	

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)
96QS	96QS	200	Channel Master (AVL Technologies)	960 AVSAT	0.96	39.7 dBi at 11.95
						41.2 dBi at 14.25

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
96QS	0.0/0.0	2.96	0.0	0.0	7.94	0.0	50.2

E28. Antenna Id	E43/44. Frequency Bands	E45. T/R Mode		E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
	(MHz)		L,R)	 (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

F50 Modulation of			Vertical			
entirety.)	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
IP Video &	Data					

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)
96QS	Geostationary	11700 12200	127.0/ 127.0	246.77	11.95	246.77	11.95	0.0
	Geostationary	14000 14500	127.0/ 127.0	246.77	11.95	246.77	11.95	-15.1

REMOTE CONTROL I OUT EOCHITON	
E61. Call Sign	E65. 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	E67. County	E64/68.	E66. Zip Code
		State/Country	
		/	

Location of Earth Station Site

E1: Site Identifier: 100QS E5. Call Sign:

E2: Contact Name Mark Ratcliff E6. Phone 404–381–2000

Number:

E3. Street: Contiguous United E7. City: Same

States

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

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

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.	OY	es	⊘ No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	OY	es	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0 '	Yes	•	, No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0 7	Yes	•	. No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0 '	Yes	•	, No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.		Yes	•	. No
POINTS OF COMMUNICATION				
Satellite Name: HORIZONS 1 HORIZONS 1 127 DEG WL If you selected OTHER, please enter the following	ng:			

E21. Common	E21. Common Name:				E22. ITU Name:			
E23. Orbit Location:				E24. Cou	intry:			
POINTS C	F COMMUNICATION	(Destination Poir	nts)	1				
E25. Site Ident	tifier:							
E26. Common Name:					E27. Country:			
ANTENNA				1				
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufac	turer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)	
100QS	100QS	200	Prodelin		1000 iSNG	1.0	40.0 dBi at 11.95	

E28. Antenna Id	Diameter	E35. Above Ground Level (meters)	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
100QS	0.0/0.0	3.0	0.0	0.0	8.12	0.0	50.6

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)

100QS	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	ion does not appear	in this box, please go	to the end of the f	form to view it in its
NULL						
100QS	11700 12200	R	Horizontal and Vertical	3M00G7W	0.0	0.0
NULL						
100QS	14000 14500	Т	Horizontal and Vertical	7M40G1W	50.6	17.93
E50. Modulation entirety.)	and Services (If t	he complete descripti	ion does not appear	in this box, please go	to the end of the f	Form to view it in its
IP Video &	Data					

100QS	14000 14500	Т	Horizontal and Vertical	910KG1W	44.6	21.03
E50. Modulation entirety.)	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
IP Video &	Data					

E28. Antenna Id		E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	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)
100QS	Geostationary	11700 12200	127.0/ 127.0	246.77	11.95	246.77	11.95	0.0
	Geostationary	14000 14500	127.0/ 127.0	246.77	11.95	246.77	11.95	-15.4

E61. Call Sign	E65. 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	E67. County	E64/68.	E66. Zip Code
		State/Country	
		/	

Location of Earth Station Site

E1: Site Identifier: 120QS E5. Call Sign:

E2: Contact Name Mark Ratcliff E6. Phone 404–381–2000

Number:

E3. Street: Contiguous United E7. City: Same

States

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

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

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	● Ye	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?	○ Ye	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.	O Y	es	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Y	es	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Y	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 Y	es	•	No
POINTS OF COMMUNICATION	т			
Satellite Name: HORIZONS 1 HORIZONS 1 127 DEG WL If you selected OTHER, please enter the following	ng:			

E21. Common N	E21. Common Name:					E22. ITU Name:					
E23. Orbit Locar						E24. Country:					
POINTS OF	COMMUNICA	ATION	(Destination	n Points	5)						
E25. Site Identif	ier:										
E26. Common N	lame:					E27. Cou	ntry:				
ANTENNA						•					
Site ID E28. Antenna Id		E29. Quant	E29. Quantity E30. Manufac		E31. Model		E32. Antenna Size <meters></meters>		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)		
120QS	QS 120QS 200 P		120QS 200 Prodelin			1210 USA		1.2		41.61 dBi at 11.95	
											43.17 dBi at 14.25
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro Lev	. Above und el ters)	E36. A Level< (meter		E37. Buil Height A Ground Level <bl (meters)</bl 	bove	E38. Total Input Power antenna flange <br (Watts)</br 		E39. Maximum Antenna Heig Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
120QS	0.0/0.0	3.2		0.0		0.0		7.46		0.0	51.9
FREQUENCY				1				1		L	i
E28. Antenna Io	E43/44. Frequency (MHz)	Bands	E45. T/R M	lode	E46. Anto Polarizat L,R)		E47. I Design	Emission nator		. Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)

120QS	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	on and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
NULL						
120QS	11700 12200	R	Horizontal and Vertical	3M00G7W	0.0	0.0
entirety.) NULL						
120QS	14000 14500	Т	Horizontal and Vertical	10M3G1W	51.9	17.79
E50. Modulation entirety.)	on and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
IP Video	& Data					

120QS	14000 14500	Т	Horizontal and Vertical	1M25G1W	45.9	20.95
E50. Modulation entirety.)	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
IP Video &	Data					

E28. Antenna Id		E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	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)
120QS	Geostationary	11700 12200	127.0/ 127.0	246.77	11.95	246.77	11.95	0.0
	Geostationary	14000 14500	127.0/ 127.0	246.77	11.95	246.77	11.95	-17.16

E61. Call Sign	E65. 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	E67. County	E64/68.	E66. Zip Code
		State/Country	
		/	

Location of Earth Station Site

E1: Site Identifier: HUB E5. Call Sign: E990092

E2: Contact Name Phil Worm E6. Phone 404–381–2000

Number:

E3. Street: 2857 Fork Creek E7. City: Ellenwood

Church Rd

E8. County: Dekalb

E4. State GA E9. Zip Code 30294

E10. Area of Operation: Fixed

E11. Latitude: 33 °39 '59.0 "N

E12. Longitude: 84 °16 '19.0 "W

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

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	• ,	Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	0,	Yes	O No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	٥	Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	٥	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.	1	Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: HORIZONS 1 HORIZONS 1 127 DEG WL If you selected OTHER, please enter the following	ng:			

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

Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If yo	u selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
HUB	AK-5	1	Vertex	11KPK	11.0	61.0 dBi at 11
						64.4 dBi at 13.75

E28. Antenna Id	Diameter	E35. Above Ground Level (meters)	(meters)	Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
AK-5	0.0/0.0	12.0	249.7	0.0	795.0	0.0	91.4

E28. Antenna Id E43/44. Frequency Bands (MHz)		E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)			
AK-5	0 0	R	OTHER	0	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.) NULL									
AK-5	0 0	Т	OTHER	0	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.) NULL									
AK-5	0 0	Т	OTHER	0	0.0	0.0			

E50. Modulati entirety.)	on 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	
NULL							
AK-5	0 0	Т	OTHER	0	0.0	0.0	
NULL							
AK-5	11700 12200	R	Horizontal and Vertical	10M3G1W	0.0	0.0	
entirety.) NULL	on and Services		escription does not appear				
AK-5	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0	

E50. Modulation entirety.)	on and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
NULL						
AK-5	11700 12200	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation entirety.)	on and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
NULL						
AK-5	11700 12200	R	Horizontal and Vertical	540KG1W	0.0	0.0
E50. Modulation entirety.)	on and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
NULL						
AK-5	14000 14500	Т	Horizontal and Vertical	3M00G7W	75.0	46.2

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 video and data

ATZ C	1.4000	TD.	TT ' . 1 1	2614067111	70.2	20.76
AK-5	14000	1	Horizontal and	36M0G7W	/8.3	38.76
	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.)

VSAT Hub IP video and data

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	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
AK-5	Geostationary	11700 12200	127.0/ 127.0	238.92	30.23	238.92	30.23	0.0
	Geostationary	14000 14500	127.0/ 127.0	238.92	30.23	238.92	30.23	-23.21

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

Location of Earth Station Site

E1: Site Identifier: 75QS E5. Call Sign:

E2: Contact Name Mark Ratcliff E6. Phone 404–381–2000

Number:

E3. Street: Contiguous United E7. City:

States

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

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

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	8 @ N	lo	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	5 O N	Ю	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Ye	es	•	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: HORIZONS 1 HORIZONS 1 127 DEG WL If you selected OTHER, please enter the following	ng:			

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	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
75QS	75QS	200	Channel Master (AVL Technologies)	750 iMoVSAT	0.75	37.8 dBi at 11.95
						39.3 dBi at 14.25

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
75QS	0.62/0.89	2.75	0.0	0.0	8.12	0.0	48.4

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

75QS	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulat entirety.)	ion and Services (If the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
NULL						
75QS	11700 12200	R	Horizontal and Vertical	3M00G7W	0.0	0.0
entirety.) NULL						
75QS	14000 14500	Т	Horizontal and Vertical	4M33G1W	48.4	18.06
E50. Modulat entirety.)	ion and Services (If the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
IP Video) & Data					

75QS	14000 14500	Т	Horizontal and Vertical	540KG1W	42.3	21.0		
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.)								
IP Video &	Data							

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)
75QS	Geostationary	11700 12200	127.0/ 127.0	246.77	11.95	246.77	11.95	0.0
	Geostationary	14000 14500	127.0/ 127.0	246.77	11.95	246.77	11.95	-13.23

TEMOTE COTTINGET ON VI ECCTORIO	
E61. Call Sign	E65. 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	E67. County	E64/68.	E66. Zip Code
		State/Country	
		/	

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