Date & Time Filed: Jan 10 2014 4:07:56:470PM File Number: SES-MOD-INTR2014-00055

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: Add Winegard tempoary—fixed antenna

Legal Name of A	pplicant		
Name:	ViaSat, Inc.	Phone Number:	760-476-2583
DBA Name:		Fax Number:	760–929–3941
Street:	6155 El Camino Real	E–Mail:	daryl.hunter@viasat.com
City:	Carlsbad	State:	CA
Country:	USA	Zipcode:	92009 –
Attention	: Mr Daryl T Hunter		

9–16. Name of Contact Representative

Name: Daryl T. Hunter, P.E. **Phone Number:** 760–476–2583

Company: Fax Number: 760–929–3941

Street: 6155 El Camino Real E–Mail: daryl.hunter@viasat.com

City: Carlsbad State: CA

Country: USA Zipcode: 92009–

Attention: Daryl T. Hunter, P.E. **Relationship:** Same

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. If Yes, complete and attach FCC Form	ion? 159. If No, indicate reason for fee exemption	n (see 47 C.F.R.Section 1.1114).
Governmental Entity Noncomme	ercial 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 pendin modification please enter only the file number	g application enter both fields, if this filing is a
(a) Call sign of station: E120071	(a) Date pending application was filed:	(b) File number:
E1200/1		SESMOD2012110200985

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	le 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 facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
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	applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: 18300 Frequency Upper: 30000	(Please specify additional frequencies in an attachment)

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	
e. Geostationary Space Station	
f. Non–Geostationary Space Station	
g. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY:	
"For Space Station applications, select 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)
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?

impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	_		•			
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.	autic	al er	ı roı	ıte o	r	
29. Is the applicant a foreign government or the representative of any foreign government?	٥	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	, o	N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized	0	Yes	•	. No	· o	N/A

O Yes No

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

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	` ❷	No ₁	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	٥	. 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.	0	Yes	•	, No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	⊚ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	⊚ Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	Yes	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, w coordinated or is in the process of coordinating the space station?UK/IOM and Canada	hat administi	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description box, please go to the end of the form to view it in its entirety.)	on does not a	ppear in this
Minor modification to add alternate antenna positioner source. See attached	narrativ	<i>7</i> e

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.

	oplicable response.)	
Individual		
Unincorporated Association		
• Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
45. Name of Person Signing	46. Title of Person Signing	
45. Name of Person Signing Daryl T. Hunter	46. Title of Person Signing Director, Regulatory Affairs	

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:	KA-WG-TF	E5. Call Sign:			
E2: Contact Name	Daryl T. Hunter	E6. Phone Number:	760–476–2583		
E3. Street:		E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	tion:	CONUS, AK, HI			
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	linates 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.

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 location.	ation and telephone number of the control	Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency co	ordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the coordination 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 FA. the structure to aviation? 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: ANIK-F2 (S2742) ANIK-F2 111.1 W.L. If you see	elected OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you	selected OTHER, please enter the following:			

E21. Common I	mon Name: E22. ITU Name:								
E23. Orbit Loca	ntion:			E24. Country:					
				-					
Satellite Name:	WILDBLUE 1(S23	355) WILDBLUE	E 1 111.1 W.L.	If you selected O	THER, please enter	the following:			
E21. Common I	Name:			E22. ITU Nam	E22. ITU Name:				
E23. Orbit Loca	ation:			E24. Country:					
				-1					
Satellite Name:	VIASAT-1 (S274	17) 115.1W.L. I	If you selected OTI	HER, please ente	r the following:				
E21. Common I	Name:			E22. ITU Nam	e:				
E23. Orbit Loca	ntion:			E24. Country:					
POINTS OF	COMMUNICAT	ION (Destination	Points)	'					
E25. Site Identi	fier:								
E26. Common I	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)			
KA-WG-TF	WV750A	20000	Winegard	WV750A	0.745	0.0 dBi at 0			
KA-WG-TF	WV750A	20000	Winegard	WV750A	0.745	0.0 dBi at 0			
KA-WG-TF	WV750A	20000	Winegard	WV750A	0.745	0.0 dBi at 0			

KA-WG-TF	WV750A	20000	Winegard	WV750A	0.745	0.0 dBi at 0
KA-WG-TF	WV750A	20000	Winegard	WV750A	0.745	44.5 dBi at 30
KA-WG-TF	WV750A	20000	Winegard	WV750A	0.745	40.1 dBi at 18.3
KA-WG-TF	WV750A	20000	Winegard	WV750A	0.745	40.4 dBi at 20.2
KA-WG-TF	WV750A	20000	Winegard	WV750A	0.745	43.9 dBi at 28.35

Id	Diameter		` ′	Height Above	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
WV750A	0.72/0.77	0.0	0.0	0.0	2.8	0.0	48.8

FREQUENCY

	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
WV750A	19700 20200	R	Left and Right Circular	52M1G7D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
52 MBd PSK	., Digital Carr	ier				
WV750A	19700 20200	R	Left and Right Circular	52M1G7D	0.0	0.0
	. Digital Carr	ier			o the end of the form	
WV750A	18300 19300	R	Left and Right Circular	416MG7D	0.0	0.0
E50. Modulation entirety.) 416 MBd PS	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
WV750A	19700 20200	R	Left and Right Circular	416MG7D	0.0	0.0

E50. Modulation entirety.)	n and Services (If	the complete descripti	ion does not appear in	n this box, please go	to the end of the form	to view it in its
416 MBd P:	SK, Digital Ca	rrier				
WV750A	28350 30000	Т	Left and Right Circular	5M00G7D	48.8	17.9
entirety.) 5 MBd PSK	, Digital Carr				to the end of the form	
WV750A	29500 30000	Т	Left and Right Circular	5M00G7D	48.8	17.9
E50. Modulation entirety.) 5 MBd PSK	n and Services (If		ion does not appear in	n this box, please go	to the end of the form	to view it in its
WV750A	28350 29100	Т	Left and Right Circular	10M0G7D	48.8	14.9

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
10 MBd PSK	I, Digital Carr	ier				
WV750A	29500 30000	Т	Left and Right Circular	10M0G7D	48.8	14.9
E50. Modulation entirety.) 10 MBd PSK	and Services (If the		on does not appear in	this box, please go t	o the end of the form	to view it in its
WV750A	28350 29100	Т	Left and Right Circular	2M50G7D	48.8	20.9
E50. Modulation entirety.)			on does not appear in	this box, please go t	o the end of the form	to view it in its
2.5 MBd PS	SK, Digital Car	rier				
WV750A	28350 29100	Т	Left and Right Circular	625KG7D	45.8	23.9

E50. Modulation entirety.)	n and Services (If t	he complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
	SK, Digital Car	rrier				
WV750A	29500 30000	Т	Left and Right Circular	2M50G7D	48.8	20.9
entirety.) 2.5 MBd PS	SK, Digital Car	rrier				
WV750A	29500 30000	Т	Left and Right Circular	625KG7D	45.8	23.9
E50. Modulation entirety.) 625 kBd Ps	n and Services (If t	he complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
WV750A	28350	Т	Left and Right	1M25G7D	48.8	23.9
	29100		Circular			

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.)

1.25 MBd PSK, Digital Carrier

WV750A	29500	T	Left and Right	1M25G7D	48.8	23.9
	30000		Circular			

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.)

1.25 MBd PSK, Digital Carrier

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	` ′	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)
WV750A	Geostationary	18300 19300	111.1/115.1	108.0	30.5	235.5	19.5	0.0
	Geostationary	19700 20200	111.1/115.1	108.0	20.5	235.5	19.5	0.0

Geostationary	28350 29100	111.1/115.1	108.0	20.5	235.5	19.5	-25.1
Geostationary	29500 30000	111.1/115.1	108.0	20.5	235.5	19.5	-25.1

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	_	E66. Phone Number 720–554–7575		
E62. Street Address 5970 South Greenwood Plaza Blv				
E63. City Greenwood Village	E68. County Arapahoe		E67/68. State/Country CO/ USA	E64. Zip Code 80111

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