Approved by OMB 3060–0678

Date & Time Filed: Aug 1 2021 2:16:29:246PM File Number: SES–LIC–INTR2021–02965 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:

Amboy, IL -1.8 m SAN license application

1–8. Legal	Name of App	plicant		
	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:	СА
	Country:	USA	Zipcode:	92009 –
	Attention:	Mr Daryl T Hunter P.E.		

Name:	Viasat, Inc.	Phone Number:	760-476-2583
Company:		Fax Number:	760–929–3941
treet:	6155 El Camino Real	E-Mail:	daryl.hunter@viasat.com
City:	Carlsbad	State:	СА
Country:	USA	Zipcode:	92009-
Attention:	Daryl T. HunterT. Hunter, P.E.	Relationship:	Engineer

CLASSIFICATION OF FILING

17. Choose the button next to the	b.	
classification that applies to this filing for	b1. Application for License of New Station	
both questions a. and b. Choose only one for 17a and only one for 17b.	 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 	
a. al. Earth Station (N/A) a2. Space Station	 (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite 	
	(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United States b10. Other (Please specify)	
	b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to	
	Provide the Proposed Service in the Proposed Frequencies in the United States. b12. Application for Database Entry	
	(N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modifiction of Database Entry	
17c. Is a fee submitted with this application		
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).	
O Governmental Entity O Noncomme	rcial educational licensee	
• Other(please explain):		
17d.		
Fee Classification BAX – Fixed Satellite Transmit/Receive Earth Station		

18. If this filing is in reference to an	19. If this filing is an amendment to a pending ap	oplication enter:
existing station, enter:	(a) Date pending application was filed:	(b) File number of pending application:
(a) Call sign of station:		
Not Applicable	Not Applicable	Not Applicable

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
O Common Carrier	Using Non–U.S. licensed satellites
facilities:	ervice, 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 applicable frequency band(s).
	a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)
l	c.Other (Please specify upper and lower frequencies in MHz.)
ľ	Frequency Lower: 17700Frequency Upper: 28350

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non–Geostationary Space Station
g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Choose only one.

Transmit/Receive Transmit–Only
Receive–Only
N/A

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

Yes

No No

29. Is the applicant a foreign government or the representative of any foreign government?	O Yes ● No
30. Is the applicant an alien or the representative of an alien?	O Yes O No ⊚ N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O No ● 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 ♥ 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.	Exhibit A

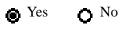
BASIC QUALIFICATIONS

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 Exhibit B	O 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
	Exhibit C	

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	le No
	Exhibit D	
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	O Yes	No
means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	KMZ	
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,		
40. If the applicant is a corporation and is applying for a space station neerse, 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.

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 No

Yes

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?UK

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.)

License application request for a 1.8 m transmit/receive earth station operating in the 27.5-28.35 GHz and 17.7-18.3 GHz bands. See attached narrative for additional details.

Narrative

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.	О ^В
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.

able response.)			
46. Title	of Person Signing		
CTO, Re	CTO, Regulatory Affairs		
ment 2:	Attachment 3:		
		ENT	
(1)), AND/OK FORFEIT	ORE (0.5. Code, 1111e 47, Section 505).		
	46. Title o CTO, Reg nent 2: N THIS FORM ARE PUN L), AND/OR REVOCATIO	46. Title of Person Signing CTO, Regulatory Affairs	

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

Location of Earth St	tation Site				
E1: Site Identifier:	SAN 1.8 m	E5. Call Sign:			
E2: Contact Name	Daryl Hunter	E6. Phone Number:	760-476-2583		
E3. Street:	204 N. Jefferson Avenue	E7. City:	Amboy		
		E8. County:	Lee		
E4. State	IL	E9. Zip Code	61310		
E10. Area of Opera	tion:	Fixed			
E11. Latitude:	41 °43 '11.14 "N				
E12. Longitude:	89 °19 '42.36 "W				
E13. Lat/Lon Coord	linates are:	O ^{NAD−27}	O NAD-83	O ^{N/A}	
E14. Site Elevation (AMSL):		227.9 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}
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O ^{No}	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	۲	Yes	O 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.	0	Yes	No	

POINTS OF COMMUNICATION

Satellite Name: ViaSat-3 (S2917) | | 88.9 W.L. 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:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
SAN 1.8 m	SAN 1	1	Viasat	13138xx	1.87	48.3 dBi at 17.7
						48.6 dBi at 18.2
						48.9 dBi at 18.7
						51.8 dBi at 27.5
						52.0 dBi at 28.0
						52.0 dBi at 28.5

Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)		Height Above Ground	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
SAN 1	1.8/1.95	1.9	229.8	0.0	32.4	0.0	67.6

FREQUENCY

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)
SAN 1	17700 18300	R	Right Hand Circular	5M00G7D	0.0	0.0
E50. Modulation entirety.) 5 MBd digi	and Services (If th		on does not appear in	this box, please go t	o the end of the form	to view it in its

SAN 1 17700 R 18300 R	Right Hand 80M0G7D Circular	0.0 0.0
--------------------------	--------------------------------	---------

E50. Modulati entirety.)	on and Services	(If the complete d	escription does not appea	r in this box, please	go to the end of	the form to view it in its
80 MBd d.	igital data c	arrer				
SAN 1	17700 18300	R	Right Hand Circular	10M0G7D	0.0	0.0
E50. Modulati entirety.)	on and Services	(If the complete d	escription does not appea	r in this box, please	go to the end of	the form to view it in its
10 MBd d	igital data c	arrier				
SAN 1	17700 18300	R	Right Hand Circular	20M0G7D	0.0	0.0
E50. Modulati entirety.)	on and Services	(If the complete d	escription does not appea	r in this box, please	go to the end of	the form to view it in its
20 MBd d	igital data c	arrier				
SAN 1	17700 18300	R	Right Hand Circular	40M0G7D	0.0	0.0

E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appea	r in this box, please	go to the end of t	he form to view it in its
40 MBd o	digital data d	carrier				
SAN 1	17700 18300	R	Right Hand Circular	160MG7D	0.0	0.0
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appea	r in this box, please	go to the end of t	the form to view it in its
160 MBd	digital data	carrier				
SAN 1	17700 18300	R	Right Hand Circular	320MG7D	0.0	0.0
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appea	r in this box, please	go to the end of t	the form to view it in its
320 MBd	digital data	carrier				
SAN 1	17700 18300	R	Right Hand Circular	464MG7D	0.0	0.0

E50. Modulation entirety.)	n and Services	(If the complete de	escription does not appear in	this box, please	go to the end of the	he form to view it in its
464 MBd d	igital data	carrier				
SAN 1	27500 28350	Т	Left Hand Circular	325MG7D	58.3	9.2
E50. Modulation entirety.) 325 MBd d	n and Services		escription does not appear in	this box, please	go to the end of the	he form to view it in its
SAN 1	27500 28350	Т	Left Hand Circular	464MG7D	59.9	9.2
E50. Modulation entirety.)			escription does not appear in	this box, please	go to the end of the	he form to view it in its
464 MBd d	igital data	carrier				

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
SAN 1	Geostationary	17700 18300	88.9/ 88.9	180.9	41.8	180.9	41.8	0.0
	Geostationary	27500 28350	88.9/ 88.9	180.9	41.8	180.9	41.8	-48.3
REMOTE CC	NTROL POIN	T LOCATION	•	•	•	•		·
	ign ase enter the calls ich this applicati	•	•	720-	. Phone Number -493-7400			
E62. Street 349 Inverne	Address ss Drive South			·				
E63. City Englewood			E67. County Arapahoe	/		E64/68. State/Country CO/ USA	A	E66. Zip Code 80112

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