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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:

New V11 Antenna for Middletown E130227

DBA Fax No Name: Street: 50 Enterprise Center E-Mai	il: 401–845–8116  ffeingold@kvh.com
Street: 50 Enterprise Center E–Mai	il: ffeingold@kvh.com
	· ·
City: Middletown State:	RI
Country: USA Zipcod	<b>le:</b> 02842 –

9–16. Name of Contact Representative

Name: Bruce Olcott Phone Number: 2028793630

**Company:** Jones Day **Fax Number:** 2026261700

Street: 51 Louisiana Avenue, N.W. E-Mail: bolcott@jonesday.com

City: Washington State: DC

**Country:** USA **Zipcode:** 20001–2113

Attention: 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

**b** 3. Amendment to a Pending Application

**b**4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

**b**7. 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

b13. Amendment to a Pending Database Entry Application

**b** 14. Modification of Database Entry

17c. Is a fee submitted with this application of the submitted with the	159. If No, indicate reason for fee exemption (se	ee 47 C.F.R.Section 1.1114).
Other(please explain):		
17d.		
Fee Classification CGX – Fixed Satellite Station	Γransmit/Receive Earth	
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a
(a) Call sign of station: E130227	(a) Date pending application was filed:	(b) File number:
L130227		SESLIC2013111400983

# TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide of	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)	
	2. 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 ser facilities:	vice, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network  Not connected to a Public Switched Network	blic Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all app	licable 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 additional	l frequencies in an attachment)

## TYPE OF STATION

25. CLASS OF STATION: Choose the button	next to the class of sta	tion that applies. C	hoose only one.	
<ul><li>a. Fixed Earth Station</li></ul>				
• b. Temporary–Fixed Earth Station				
c. 12/14 GHz VSAT Network				
d. Mobile Earth Station				
e. Geostationary Space Station				
f. Non–Geostationary Space Station				
<b>o</b> g. Other (please specify)				
26. TYPE OF EARTH STATION FACILITY:				 
Transmit/Receive Transmit-Only	Receive-Only	O N/A		
"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 (satellites & Doub
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

### **ENVIRONMENTAL POLICY**

under the laws of a foreign country?

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

	<del></del>	
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes •	No O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	• Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	• Yes	<b>⊚</b> No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	• Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	<b>⊘</b> 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 administi	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete descriptions, please go to the end of the form to view it in its entirety.)	ion does not a	ppear in this
KVH seeks to add an additional antenna to this location using additional emidesignators.	ission	

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.	<b>●</b> 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.	<b>o</b> 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.

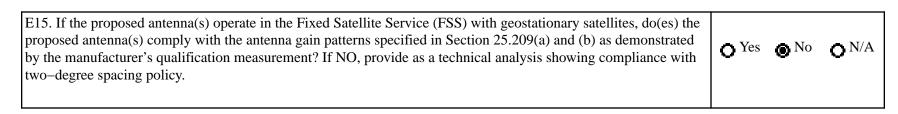
44. Applicant is a (an): (Choose the button next to	applicable response.)	
o Individual		
Unincorporated Association		
Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
45. Name of Person Signing	46. Title of Person Signing	
Felise Feingold	General Counsel	
>		
	ADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT on 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).

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

Location of Earth St	ation Site					
E1: Site Identifier:	1	E5. Call Sign:	E130227			
E2: Contact Name	Marc Edwards	E6. Phone Number:	401 835 8488			
E3. Street:	50 Enterprise Center	E7. City:	Middletown			
		E8. County:	Newport			
E4. State	RI	E9. Zip Code	02842			
E10. Area of Operat	tion:	Middletown, RI				
E11. Latitude:	41 °31 '17.0 "N					
E12. Longitude:	71 °17 '29.0 "W					
E13. Lat/Lon Coord	linates are:	<b>o</b> NAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	33.8 meters				



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	O Yes	O <sup>No</sup>	<b>⊚</b> N/A	
E17. Is the facility operated by remote control? If YES, provide the loc point.	ation and telephone number of the control	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency co	ordination report as Coordination Report	• 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: PERMITTED LIST   If you selected OTHER, plo	ease 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	Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
1	ESV4	1	KVH Industries	V11	1.0	34.5 dBi at 6.138

Id	Diameter		` ′	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
ESV4	1.0/1.0	0.0	435.4	0.0	17.47	0.0	46.9

# FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode		E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
ESV4	5925 6425	Т	Horizontal and Vertical	9M98G7D	46.9	13.0

E50. Modulation entirety.)	and Service	s (If tl	ne complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Spread Spe	ectrum Di	gital	Service				
ESV4	5925	6425	Т	Horizontal and Vertical	30M0FXW	46.9	8.15
E50. Modulation entirety.)  Frequency			he complete descripti tal Services	on does not appear in	n this box, please go t	to the end of the form	to view it in its
ESV4	5925	6425	Т	Horizontal and Vertical	18M0G7D	46.9	10.4
E50. Modulation entirety.)			he complete descripti Spectrum Servi		n this box, please go t	to the end of the form	to view it in its
ESV4	5925	6425	Т	Horizontal and Vertical	27M0G7D	46.9	8.6

E50. Modulation entirety.)	and Services (If	the complete descripti	on does not appear in	n this box, please go	to the end of the form	to view it in its
Half Trans	sponder Spread	Spectrum Servi	ce			
ESV4	5925 6425	Т	Horizontal and Vertical	36M0G7D	46.9	7.4
entirety.)  Full Trans	ponder Spread	Spectrum Servi	Lce			
ESV4	5925 6425	Т	Horizontal and Vertical	25M0F8W	46.9	8.94
E50. Modulation entirety.)  Frequency		the complete descripti			to the end of the form	to view it in its
ESV4	5925 6425	Т	Horizontal and Vertical	32M2G7W	46.9	7.84

E50. Modulation entirety.)	and Services	s (If th	ne complete descripti	on does not appear	in this box, please	go to the end of the	he form to view it in its
Frequency	Modulated	d, Mul	tiple Channel,	Digital Serv	rices		
ESV4	5925	6425	Т	Horizontal and Vertical	35M9G7W	46.9	7.37
E50. Modulation entirety.)  Frequency			tiple Channel,			go to the end of the	he form to view it in its
ESV4	5925	6425	Т	Horizontal and Vertical	36M0F8W	46.9	7.36
E50. Modulation entirety.)  Frequency			ne complete descripti			go to the end of the	he form to view it in its

FREQUENCY COORDINATION

	l	Limits(MHz)	Range of Satellite Arc Eastern/West	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
ESV4	Geostationary	5925 6425	25.0/135.0	122.4	23.2	251.9	10.8	-15.6

# REMOTE CONTROL POINT LOCATION

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

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