Date & Time Filed: Jan 30 2018 4:34:03:080PM File Number: SES-MOD-INTR2018-00287

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 License to Operate at a Maximum of 16 Watts Input Power

Modification of Electise to Operate at a Maximum of 10 waters input 1 ower									
1–8. Legal Name of Applicant									
Name: Kymeta Corporation Phone Number: 425–896–3700									
DBA Name:		Fax Number:	866–230–9790						
Street:	12277 134th Court, NE	E-Mail:	ryan@kymetacorp.com						
City:	Redmond	State:	WA						
Country:	USA	Zipcode:	98052 –						
Attention:	Ryan A. Stevenson								

9–16. Name of Contact Representative

Name: Robert S. Koppel **Phone Number:** 703–584–8669

Company: Lukas LaFuria Gutierrez & Sachs, Fax Number: 703–584–8696

LLC

Street: 8300 Greensboro Drive E–Mail: bkoppel@fcclaw.com

Suite 1200

City: Tysons State: VA

Country: USA Zipcode: 22102–

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 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 b13. Amendment to a Pending Database Entry Application b14. Modification of Database Entry				
17c. Is a fee submitted with this application?  O 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  Noncommercial educational licensee					
Other(please explain): Revisions to Application to Modify Earth Station Authorization					
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 amen modification please enter of	nendment to a pending application enter both fields, if this filing is a er only the file number:	
(a) Call sign of station:	(a) Date pending application	on was filed:	(b) File number:
E170070			SESLIC2017022300195
TYPE OF SERVICE			
20. NATURE OF SERVICE: This filing is for	or an authorization to provid	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 only one.	applicable status. Choose	Using U.S. licen	oplicant, check all that apply. sed satellites
Common Carrier Non–Common	Carrier		. licensed satellites
23. If applicant is providing INTERNATION	IAL COMMON CARRIER S	service, see instruction	ns regarding Sec. 214 filings. Choose one. Are these

O Connected to a Public Switched Network Not connected to a Public Switched Network

facilities:

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)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)
TYDE OF CTATION
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:
Transmit/Receive Transmit-Only Receive-Only 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 & tountries)
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**

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	O Yes O No	
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.	RF Safety Study	

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.

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	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	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	•	No	0	N/A

	<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.	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? See Narrative Statement	hat administr	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
Applicant seeks authority to operate at a maximum of 16 watts input power.  Narrative Statement		

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.

4. Applicant is a (an): (Choose the button next to applications of the control of	plicable response.)	
Unincorporated Association		
Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
-		
45. Name of Person Signing	46. Title of Person Signing	
Ryan A. Stevenson	Vice President and Chief Scientist	
>	•	

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:	ESV, VMES, VSAT	E5. Call Sign:	N/A			
E2: Contact Name	N/A	E6. Phone Number:	N/A			
E3. Street:	N/A	E7. City:	N/A			
		E8. County:	N/A			
E4. State		E9. Zip Code	N/A			
E10. Area of Operat	ion:	United States, its ter	ritories and territoria	al and internationa	al waters	
E11. Latitude:	0 °0 '0.0 "N					
E12. Longitude:	0 °0 '0.0 "W					
E13. Lat/Lon Coord	linates are:	O NAD-27	<b>●</b> NAD-83	O N/A		
E14. Site Elevation	(AMSL):	0.0 meters				

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.	by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with	O Yes @	No	O N/A
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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 b measurements?	O Yes	O No	<b>⊚</b> N/A	
E17. Is the facility operated by remote control? If YES, provide the loca point.	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
		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 FAI 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, ple	ease enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)	•			
E25. Site Identifier: ESV, VMES, VSAT				

E26. Common Name:	E27. Country: USA
E25. Site Identifier: ESV, VMES, VSAT	
E26. Common Name:	E27. Country: USA
A RICHER IN LA	

### 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)
ESV, VMES, VSAT	KyWay1	11000	Kymeta Corporation	Type 1	0.7	33.0 dBi at 14.5

Id	Diameter		, ,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
KyWay1	0.7/0.7	0.0	0.0	0.0	16.0	0.0	45.04

# FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
KyWay1	14000 14500	Т	Linear and Circular	1M50G1D	44.74	19.0

E50. Modula entirety.)	ation and Services (	If the complete d	escription does not appear in	this box, please	go to the end of th	ne form to view it in its	
G1D							
KyWay1	14000 14500	Т	Linear and Circular	1M50G1D	44.74	19.0	
E50. Modula entirety.)	ation and Services (	If the complete d	escription does not appear in	this box, please	go to the end of th	ne form to view it in its	
G1D							
KyWay1	14000 14500	Т	Linear and Circular	2M00G1D	45.04	18.05	
E50. Modula entirety.)	ation and Services (	If the complete d	escription does not appear in	this box, please	go to the end of th	ne form to view it in its	
G1D							
KyWay1	14000 14500	Т	Linear and Circular	3M00G1D	45.04	16.29	

E50. Modula entirety.)	tion and Services	(If the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its	
G1D							
KyWay1	14000 14500	Т	Linear and Circular	3M48G1D	45.04	15.64	
E50. Modula entirety.)	tion and Services	(If the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its	
G1D							
KyWay1	14000 14500	Т	Linear and Circular	5M00G1D	45.04	14.07	
E50. Modula entirety.)	tion and Services	(If the complete d	lescription does not appear in	this box, please	go to the end of th	ne form to view it in its	
G1D							
KyWay1	14000 14500	Т	Linear and Circular	611kG1D	40.84	19.0	

E50. Modulation entirety.)	on and Services (	If the complete de	escription does not appear in	this box, please	go to the end of th	e form to view it in its
G1D						
KyWay1	14000 14500	Т	Linear and Circular	6M96G1D	45.04	12.63
E50. Modulation entirety.)	on and Services (	If the complete de	escription does not appear in	this box, please	go to the end of th	e form to view it in its
G1D						

# FREQUENCY COORDINATION

E28.	E51. Satellite	E52/53.	E54/55.	E56. Earth	E57.	E58. Earth	E59.	E60.
Antenna Id	Orbit Type	Frequency	Range of	Station	Antenna	Station	Antenna	Maximum
		Limits(MHz)	Satellite Arc	Azimuth	Elevation	Azimuth	Elevation	EIRP Density
			Eastern/West	Angle	Angle	Angle	Angle	toward the
			ern Limit	Eastern Limit	Eastern Limit	Western	Western	Horizon
						Limit	Limit	(dBW/4kHz)
			/					

REMOTE CONTROL POINT LOCATION

E61. Call Sign E170070 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		E66. Phone Number 855–KALONET		
E62. Street Address 12277 134th Court				
E63. City Redmond	E68. County King		E67/68. State/Country WA/ USA	E64. Zip Code 98052

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