



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION**

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**RADIO STATION AUTHORIZATION**

**Name:** Kymeta Corporation

**Call Sign:** E170070

**Authorization Type:** Modification of License

**File Number:** SES-MOD-20200611-00674

Non Common Carrier

**Grant date:** 09/14/2020

**Expiration Date:** 08/24/2032

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Other

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	ESIM	United States, its territories and international waters				NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
2)	ESV	US territorial and international waters			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
3)	VMES	United States, its territories and international waters			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
4)	VSAT	United States, its territories and international waters			0	NA
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				

*Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning August 24, 2017 (3 AM Eastern Standard Time) and ending August 24, 2032 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is September 14, 2021 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.*



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**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000-14500.0000	H, V, L, R	1M50G1D	Tx	44.74	19.00	KyWay 1		Data
2)	14000.0000-14500.0000	H, V, L, R	2M00G1D	Tx	45.04	18.05	KyWay 1		Data
3)	14000.0000-14500.0000	H, V, L, R	3M00G1D	Tx	45.04	16.29	KyWay 1		Data
4)	14000.0000-14500.0000	H, V, L, R	3M48G1D	Tx	45.04	15.64	KyWay 1		Data
5)	14000.0000-14500.0000	H, V, L, R	5M00G1D	Tx	45.04	14.07	KyWay 1		Data
6)	14000.0000-14500.0000	H, V, L, R	611KG1D	Tx	40.84	19.00	KyWay 1		Data
7)	14000.0000-14500.0000	H, V, L, R	6M96G1D	Tx	45.04	12.63	KyWay 1		Data
8)	11700.0000-12200.0000	H, V, L, R	1M50G1D	Rx			KyWay 1		Data
9)	11700.0000-12200.0000	H, V, L, R	36M0G1D	Rx			KyWay 1		Data
10)	11450.0000-11700.0000	H, V, L, R	1M50G1D	Rx			KyWay 1		Data
11)	11450.0000-11700.0000	H, V, L, R	36M0G1D	Rx			KyWay 1		Data
12)	10950.0000-11200.0000	L, R	1M50G1D	Rx			KyWay 1		Data
13)	10950.0000-11200.0000	H, V, L, R	36M0G1D	Rx			KyWay 1		Data
14)	14000.0000-14500.0000	H, V, L, R	125KG1D	Tx	35.87	20.92	u8		Digital
15)	14000.0000-14500.0000	H, V, L, R	125KG1D	Tx	35.87	20.92	u8		Digital
16)	14000.0000-14500.0000	H, V, L, R	15M0G1D	Tx	46.66	20.92	u8		Digital
17)	14000.0000-14500.0000	H, V, L, R	15M0G1D	Tx	47.20	11.45	u8		Digital
18)	14000.0000-14500.0000	H, V, L, R	15M0G1D	Tx	47.20	11.45	u8		Digital
19)	14000.0000-14500.0000	H, V, L, R	1M50G1D	Tx	46.66	20.92	u8		Digital
20)	14000.0000-14500.0000	H, V, L, R	2M00G1D	Tx	47.20	20.21	u8		Digital
21)	14000.0000-14500.0000	H, V, L, R	2M00G1D	Tx	47.20	20.21	u8		Digital
22)	14000.0000-14500.0000	H, V, L, R	3M00G1D	Tx	47.20	18.45	u8		Digital
23)	14000.0000-14500.0000	H, V, L, R	3M00G1D	Tx	47.20	18.45	u8		Digital
24)	14000.0000-14500.0000	H, V, L, R	611KG1D	Tx	42.76	20.92	u8		Digital



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The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
25)	14000.0000-14500.0000	H, V, L, R	611KG1D	Tx	42.76	20.92	u8		Digital
26)	14000.0000-14500.0000	H, V, L, R	6M96G1D	Tx	47.20	14.79	u8		Digital
27)	14000.0000-14500.0000	H, V, L, R	6M96G1D	Tx	47.20	14.79	u8		Digital
28)	11700.0000-12200.0000	H, V, L, R	125KG1D	Rx			u8		Digital
29)	11700.0000-12200.0000	H, V, L, R	15M0G1D	Rx			u8		Digital
30)	11700.0000-12200.0000	H, V, L, R	1M50G1D	Rx			u8		Digital
31)	11700.0000-12200.0000	H, V, L, R	2M00G1D	Rx			u8		Digital
32)	11700.0000-12200.0000	H, V, L, R	3M00G1D	Rx			u8		Digital
33)	11700.0000-12200.0000	H, V, L, R	611KG1D	Rx			u8		Digital
34)	11700.0000-12200.0000	H, V, L, R	6M96G1D	Rx			u8		Digital
35)	11450.0000-11700.0000	H, V, L, R	125KG1D	Rx			u8		Digital
36)	11450.0000-11700.0000	H, V, L, R	15M0G1D	Rx			u8		Digital
37)	11450.0000-11700.0000	H, V, L, R	1M50G1D	Rx			u8		Digital
38)	11450.0000-11700.0000	H, V, L, R	2M00G1D	Rx			u8		Digital
39)	11450.0000-11700.0000	H, V, L, R	3M00G1D	Rx			u8		Digital
40)	11450.0000-11700.0000	H, V, L, R	611KG1D	Rx			u8		Digital
41)	11450.0000-11700.0000	H, V, L, R	6M96G1D	Rx			u8		Digital
42)	10950.0000-11200.0000	H, V, L, R	125KG1D	Rx			u8		Digital
43)	10950.0000-11200.0000	H, V, L, R	15M0G1D	Rx			u8		Digital
44)	10950.0000-11200.0000	H, V, L, R	1M50G1D	Rx			u8		Digital
45)	10950.0000-11200.0000	H, V, L, R	2M00G1D	Rx			u8		Digital
46)	10950.0000-11200.0000	H, V, L, R	3M00G1D	Rx			u8		Digital
47)	10950.0000-11200.0000	H, V, L, R	611KG1D	Rx			u8		Digital
48)	10950.0000-11200.0000	H, V, L, R	6M96G1D	Rx			u8		Digital



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**C) Frequency Coordination Limits**

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	11700.0000-12200.0000								KyWay 1
2)	11450.0000-11700.0000								KyWay 1
3)	10950.0000-11200.0000								KyWay 1
4)	14000.0000-14500.0000								KyWay 1
5)	14000.0000-14500.0000		1.0W-360.0W		15.0-00.0				u8

**D) Points of Communications**

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) VMES to Permitted Space Station List
- 2) ESV to Permitted Space Station List
- 3) VSAT to Permitted Space Station List
- 4) ESIM to Permitted Space Station List

**E) Antenna Facilities**

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
ESV	KyWay 1	5000	0.7	Kymeta Corporation	Type 1	0	0 AGL/ 0 AMSL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =					16.00			
Maximum aggregate output EIRP for all carriers (dBW) =					45.04			
VSAT	KyWay 1	5000	0.7	Kymeta Corporation	Type 1	0	0 AGL/ 0 AMSL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =					16.00			
Maximum aggregate output EIRP for all carriers (dBW) =					45.04			



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**E) Antenna Facilities**

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
VMES	KyWay 1	1000	0.7	Kymeta Corporation	Type 1	0	0 AGL/ 0 AMSL	
Max Gains(s):		33.0 dBi @	14.5000 GHz	32.9 dBi @	14.0000 GHz	32.8 dBi @		
		12.2000 GHz	31.9 dBi @	11.2000 GHz	32.3 dBi @	11.4500 GHz	26.5	
		dBi @	10.9500 GHz					
Maximum total input power at antenna flange (Watts) =					16.00			
Maximum aggregate output EIRP for all carriers (dBW) =					45.04			
ESIM	u8	1000	0.82	Kymeta Corporation	u8			
Max Gains(s):		35.1 dBi @	14.0000 GHz					
Maximum total input power at antenna flange (Watts) =					16.20			
Maximum aggregate output EIRP for all carriers (dBW) =					47.20			

**F) Remote Control Point:**

ESIM	12277 134th Court NE,, Suite 100 Redmond, King, WA 98052 1-855-525-6638	<b>Call Sign:</b> E170070
ESV	12277 134th Court NE, Suite 100 Redmond, King, WA 98052 (206) 902-6888	<b>Call Sign:</b> N/A
VMES	12277 134th Court NE, Suite 100 Redmond, King, WA 98052 (206) 902-6888	<b>Call Sign:</b> N/A
VSAT	12277 134th Court NE, Suite 100 Redmond, King, WA 98052 (206) 902-6888	<b>Call Sign:</b> N/A

**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions



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## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.

8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

6604 --- Antenna elevation for all operations must be at least 5 degrees above the geographic horizon.

90003 --- The licensee shall not operate in the band 14.0-14.2 GHz within 125 km of the NASA TDRSS facilities on: Guam (latitude 13°36'55" N, longitude 144°51'22" E); White Sands, New Mexico (latitude 32°20'59" N, longitude 106°36'31" W and latitude 32°32'40" N, longitude 106°36'48" W); Blossom Point, Maryland (latitude 38° 25' 44" N.L., longitude 77° 05' 02" W.L.) unless and until it enters into an agreement with NASA that NTIA has approved. The licensee must conform its operations to the terms of any coordination agreement with NASA and must file a copy of the agreement with the Commission within 30 days of execution. Upon receipt of such notification from a licensee, the International Bureau will issue a public notice stating that the licensee may commence operations within the coordination zone in 30 days if no party has opposed the operations.

90014 --- The licensee shall not operate in the band 14.47-14.50 GHz within (a) 45 km of the radio observatory on St. Croix, Virgin Islands (located at latitude 17°46' N, longitude 64°35' W); (b) 125 km of the radio observatory on Mauna Kea, Hawaii (located at latitude 19°48' N, longitude 155°28' W); and (c) 90 km of the Arecibo Observatory on Puerto Rico (located at latitude 18°20'46" W, longitude 66°45'11" N) unless and until the licensee enters into an agreement with the National Science Foundation that has been approved by NTIA. The licensee must conform its operations to the terms of any coordination agreement with the National Science Foundation and must file a copy of the agreement with the Commission within 30 days of execution.

90062 --- Operation pursuant to this authorization outside the United States in the 14.0-14.5 GHz band must be in compliance with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz band.

90075 --- Licensee is afforded 30 days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

90104 --- For any new antenna authorized by this grant, the licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, Site ID, date of the license and certification that the antenna model was put into operation.

90105 --- Authority is granted to operate this station by remote control provided that the operator is responsible for ensuring the operations are in accordance with the terms and conditions of the license and pursuant to Section 25.271 of the Commission's rules. 47 C.F.R 25.271.

90116 --- The licensee must maintain a U.S. point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. The licensee shall have available, at all times, the technical personnel necessary to perform supervision of remote station operations.



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## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 90118 --- The licensee shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.
- 90122 --- The earth stations in this blanket license are operated by remote control. The remote control point is a material term of the license and may not be changed without prior authorization under Section 25.117 of the Commission's rules. Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points," DA 06-978 (rel. May 4, 2006).
- 90285 --- Operations in international waters and in territorial waters of other countries must be in compliance with the applicable laws, regulations, and licensing procedures of other countries, as well as with the conditions of this authorization.
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)
- 90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- 90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.
- 90506 --- VMES operations with Permitted List satellites are authorized only within this emission designator and its associated Max. EIRP/Carrier and Max EIRP Density/carrier limits specified in section B.
- 90507 --- VMES operations are limited to situations where operations of the antenna do not exceed the maximum permissible exposure limits established in the OET Bulletin 65.



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## H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

- 3600-4200 MHz (space-to-Earth)
- 5850-6725 MHz (Earth-to-space)
- 10.95-11.2 GHz (space-to-Earth)
- 11.45-12.2 GHz (space-to-Earth)
- 13.75-14.5 GHz (Earth-to-space)
- 18.3-18.8 GHz (space-to-Earth)
- 19.7-20.2 GHz (space-to-Earth)
- 24.75-25.25 GHz (Earth-to-space)
- 28.35-28.6 GHz (Earth-to-space)
- 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.

900606 --- Operations of Kymeta Corporation model u8 antenna in close proximity to humans may exceed FCC limits for individuals within 1.55 meters (5 feet and 1 inch) of the edge of the antenna when operating at maximum duty cycle of 30%. Operations above 30% duty cycle are not authorized. A notice must be attached to the visible edge of the antenna which visibly states, "Radiofrequency fields may exceed FCC safety limits for the general public standing within 1.55 meters (5 feet and 1 inch) of the edge of this terminal. Terminal installations and operations must inhibit public access to the 1.55 meter area."

900608 --- The ESIMs authorized herein must comply with the terms of the applicable space station authorization(s) as well as the Commission's rules on frequency use, including 47 CFR § 25.202, 47 CFR § 25.228, and applicable footnotes to the Table of Frequency Allocations, 47 CFR § 2.106, including NG527A which states: Earth Stations in Motion (ESIMs), as regulated under 47 CFR part 25, are an application of the fixed-satellite service (FSS) and the following provisions shall apply: (a) In the bands 10.7-11.7 GHz, 19.3-19.4 GHz, and 19.6-19.7 GHz (space-to-Earth), ESIMs may be authorized for the reception of FSS emissions from geostationary and non-geostationary satellites, subject to the conditions that these earth stations may not claim protection from transmissions of non-Federal stations in the fixed service and that non-geostationary-satellite systems not cause unacceptable interference to, or claim protection from, geostationary-satellite networks. (b) In the bands 11.7-12.2 GHz (space-to-Earth), 14.0-14.5 GHz (Earth-to-space), 18.3-18.8 GHz (space-to-Earth), 19.7-20.2 GHz (space-to-Earth), 28.35-28.6 GHz (Earth-to-space), and 29.25-30.0 GHz (Earth-to-space), ESIMs may be authorized to communicate with geostationary satellites on a primary basis.

900609 --- Operations for the Kymeta Corporation model u8 antenna are authorized pursuant to 47 C.F.R. §25.218(f).





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**B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:**

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

**Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.**