

Marlink, Inc.

Request for Extension of Special Temporary Authority to  
Operate 5 Winegard Model WX 1200 1.2 Meter Temporary Fixed VSAT Antennas to  
Communicate With Intelsat 23 and Galaxy 19 Satellites

FILE NO. SES-STA-20190801-01018

Marlink, Inc. (“Marlink”) respectfully requests extension of Special Temporary Authority (“STA”) for a period of 180 days, effective September 10, 2019, to operate 5 Winegard Model WX 1200 (“WX 1200”) 1.2 Meter Ku-band temporary fixed VSAT antennas to communicate with the U.S. licensed Intelsat 23 and Galaxy 19 satellites for a demonstration and testing project. The purpose of the project is to evaluate performance of Marlink’s network in the monitoring of crude oil extraction points in desolate areas and identify specifics and particulars to be used for an application for a permanent license.

The antennas will continue to be operated in CONUS by remote control via the Marlink Network Operations Center (MNOC) located in Eik, Norway which controls the remote antennas via uplink teleports located in the U.S. The MNOC control of the antennas located in the U.S. is in turn controlled by Marlink’s U.S. FCC Point of Contact which has a business address of 3327 S. Sam Houston Parkway East, Suite 100, Houston, Texas, 77047 and is available 24 hours a day, seven days a week via 203-346-0461 which is the U.S. number for the MNOC.

The Technical Specifications published by Winegard for the WX 1200 antenna state that radiation pattern compliance is with FCC Part 25.209. No frequency coordination or coordination with another country is required for the operation of these antennas as transmissions are within the U.S. on standard Ku-band frequencies. FAA notification is not required as the antennas will be located in areas with structures of equal or greater heights. A Radiation Hazard Report is included as an exhibit with the STA extension application.

The Points of Communication for which extension of the STA is requested are the U.S. licensed Intelsat 23 and Galaxy 19 satellites. The Transmit and Receive Gains for the WX 1200 antenna are 43 dBi @ 14.125 GHz and 41.5 dBi @ 11.950 GHz respectively. The STA extension is requested to operate the antennas utilizing a total input power to the antenna flange of 5.4 watts with a total EIRP for all carriers of 50.8 dBW. Extension of the STA is requested to utilize the following Emission Designators -

<b>Frequency (MHz)</b>	<b>Polarization</b>	<b>Emission</b>	<b>Tx/Rx</b>	<b>Max EIRP /Carrier (dBW)</b>	<b>Max EIRP Density (dBW/4kHz)</b>
11700-12000	H&V	565KG7W	R		

14000-14500 H&V 565KG7W T 49.97 29.15

**Modulation & Services - DIGITAL TRAFFIC USING QPSK MODULATION**

Extension of the STA is in the public interest because, as noted above, the antennas are being operated for the purpose of evaluating the performance of Marlink's network in the monitoring of crude oil extraction points in desolate areas. Crude oil extraction is an important element in meeting the nation's energy needs. As noted above, specifics and particulars identified during the STA will be used for an application Marlink intends to file for a permanent license. It is therefore respectfully requested that extension of the STA as described above be granted for a period of 180 days, effective September 10, 2019.

Any questions with respect to this matter may be directed to David Atabala at 281-809-9708 or James G. Lovelace at 571-599-3643.