

Marlink, Inc.

Request for 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

Marlink, Inc. (“Marlink”) respectfully requests a grant of Special Temporary Authority (“STA”) effective August 11, 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.

The antennas will be operated in CONUS in an area of West Texas bounded by 103.32W to the west, 100.32W to the east, 33.50N to the north and 30.12N to the south. The antennas will be operated by remote control via the Marlink Network Operations Center (MNOC) located in Eik, Norway which will control the remote antennas via uplink teleports located in the U.S. The MNOC operation of 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 they will only be transmitting 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 application.

As noted above, the Points of Communication for which authorization 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 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. Authorization is requested to utilize the following Emission Designators -

Frequency (MHz)	Polarization	Emission	Tx/Rx	Max EIRP /Carrier (dBW)	Max EIRP Density (dBW/4kHz)
11700-12000	H&V	565KG7W	R		
14000-14500	H&V	565KG7W	T	49.97	29.15

Modulation & Services - DIGITAL TRAFFIC USING QPSK MODULATION

Grant of the STA is in the public interest because as noted above the antennas will be 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. It is therefore respectfully requested that STA as described above be granted for a period of 30 days, effective August 11, 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.