

<b>Name:</b>	<b>Omnispace LLC</b>
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<b>Test Dates:</b>	03/01/2021 – 09/01/2021

By the accompanying application and pursuant to Section 5.61 of the Rules and Regulations of the Federal Communications Commission (“FCC”), Omnispace LLC (“Omnispace”) hereby requests a Special Temporary Authorization (“STA”) for operation of conventional experimental radio service stations for a period of six months. This STA is necessary in order to provide a demonstration via prototype terminals that will communicate with an existing Medium Earth Orbit (“MEO”) satellite.

### **Description of Equipment and Testing**

The MEO satellite with which the terminals will communicate, referred to as “F2,” was launched in June 2001 by ICO Global Communications (“ICO”) but is now owned and operated by Omnispace LLC.

The F2 operates in two frequency bands: the Telemetry, Tracking, and Command (“TTC”) frequencies and the payload frequencies. The TTC frequencies are in the C Band – i.e., 5150-5250 MHz uplink and 7000-7025 MHz downlink are licensed by the FCC for the Brewster, Washington, gateway – and are notified at the International Telecommunication Union by OFCOM of the United Kingdom. The payload frequencies are in the S Band – i.e., 1985-2015 MHz uplink and 2170-2200 MHz downlink, which are notified at the ITU by the National Information and Communication Technology Authority of Papua New Guinea (“PNG”).

By this STA request, Omnispace proposes to transmit and receive signals via F2 with an experimental prototype terminal with the following specifications:

<b>Uplink (Tx):</b>	1999.0-2000.0 MHz
<b>Downlink (Rx):</b>	2184.0-2185.0
<b>Emission Designator:</b>	125KG2D
<b>Max EIRP:</b>	2W

The portion of the S Band to be used for prototype testing consists of uplink frequencies in the H block of the Personal Communications Service (“PCS”) band and downlink in the AWS-4 band. Omnispace will coordinate its operations with the appropriate licensee in the H block and AWS-4 band respectively in the Brewster, Washington, area and will cease operations immediately upon notification of harmful interference to their operations.

Upon grant of the requested STA, Omnispace will conduct testing within a ten-kilometer radius of the remote location listed below on a non-interference basis. Omnispace will deploy one terminal at the following location:

<b>Location</b>	<b>Address</b>	<b>County</b>	<b>Coordinates</b>
Brewster, Washington	66C Teleport Drive Brewster, WA 98812	Okenogan	N 48° 8' 49" W 119° 42' 9"

**Public Interest Statement**

As a follow on to the testing that Omnispace and the U.S. Space Force conducted under the FCC's experimental STA 0800-EX-ST-2020 (Call Sign WQ9XMR), Omnispace continues to develop equipment to provide low cost, power efficient IoT services over satellite. This STA is required in order to field test promising solutions and to perfect the air interface (modulation and access layer) to ensure best performance to our current in orbit F2 satellite from the gateway location in Brewster, Washington. We believe this testing, which as noted above will be conducted on a non-interference basis, serves the public interest as it will be analyzing additional equipment to assist with building future communications capabilities for commercial use, as well as the U.S. military and government to further U.S. national security objectives.

If there are questions concerning this application, the FCC is asked to contact Mindel De La Torre, Chief Regulatory and International Strategy Officer for Omnispace, at [mdelatorre@omnispace.com](mailto:mdelatorre@omnispace.com) or 202-930-5935.