

Name:	Omnispace LLC
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Test Dates:	06/01/2020 – 06/30/2020

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 one month. This STA is necessary in order to provide a demonstration via prototype terminals for the U.S. Government 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 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 on the GETSAT “1003” designation prototype terminal with the following specifications:

Uplink (Tx):	1997-1997.6 MHz
Downlink (Rx):	2180.0-2180.6
Emission Designator:	150KG2D
Max EIRP:	20W

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 Colorado Springs 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-mile radius of the remote locations listed below. Omnispace will only deploy one (1) terminal at the location:

Location	Address	County	Coordinates
Colorado Springs, CO	6540 Leesburg Rd, Colorado Springs, CO 80922	El Paso	N 38°52'11.3" W 104°42'20.9"

Public Interest Statement

Omnispace is currently under contract with the U.S. Air Force’s (USAF) Space and Missile Systems Center (SMC) to assist with building future communications capabilities for the U.S. military and government in the furtherance of U.S. national security. Part of this contract includes the testing and demonstration of Omnispace’s current capabilities for various units of the USAF and U.S. military, including the U.S. Space Force’s (USSF) E-FORGE unit. Per the attached letter of support from USSF as Attachment 1, we believe this testing, which as noted above will be conducted on a non-interference basis, serves the public interest in furtherance of 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 or 202-930-5935.



Attachment 1



DEPARTMENT OF THE AIR FORCE
UNITED STATES SPACE FORCE

13 May 2020

Ms. Mindel De La Torre
Chief Regulatory and International Strategy Officer, Omnispace LLC
7900 Tysons One Place, Suite 1250
Tysons, VA 22102 USA

TO: Ms. Mindel De La Torre

FROM: SMC/Product Corps C2 Division S2E2 (PCCS) and Enterprise Corps Cross Mission Ground
Tactical C2 Division (ECXT)

SUBJECT: Omnispace LLC Special Temporary Authority Request

The U.S. Space Force E-FORGE program provides this letter of support for Omnispace LLC ("Omnispace") for Special Temporary Authority ("STA") from the Federal Communications Commission. E-FORGE understands that Omnispace is seeking FCC authority to test terminals with the F2 satellite launched by ICO Global Communications. The tests will be conducted on a non-interference basis using the F2 payload frequencies in the S Band – i.e., approximately 2 MHz between 1995-2000 MHz uplink and 2 MHz within 2170-2200 MHz downlink at a remote terminal in the vicinity of Colorado Springs, CO. The terminal will be tested and operated in accordance with the parameters that Omnispace has developed with USSF and are set forth in Omnispace's application for the STA. The proposed testing will be conducted on a non-interference basis and for intermittent periods of time, not to exceed an overall period of one month, with a tentative start date of June 1, 2020, if possible.

The USSF Space and Missile Systems Center (SMC) is working with Omnispace to test various unique capabilities in support of national security requirements. Temporary access to these frequencies would allow us to further that testing.

If there are any questions regarding this matter or additional information is required, please contact Captain Allen at (262) 627-0423.

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ERIC S. NEUBERT, Lt Col, USAF
Chief, Survivable/Endurable Missile Warning