

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WQ9XZJ

(Call Sign)

XT FX MO

(Class of Station)

0247-EX-ST-2021

(File Number)

NAME Microsoft Infrastructure Group LLC

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Microsoft seeks an STA for a period of six months

Station Locations

- (1) Brewster (Receive-Only), WA - NL 48-08-49; WL 119-42-04
- (2) MOBILE: Deimos-2 (Downlink) Apogee=621 km, Perigee=604 km, Inc=97.81 deg
- (3) Quincy (Receive-Only), WA - NL 47-14-22; WL 119-53-08

Frequency Information

Brewster (Receive-Only), WA - NL 48-08-49; WL 119-42-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8025-8155 MHz	FX	130MG7D	30.56 W (ERP)	
8155-8285 MHz	FX	130MG7D	30.56 W (ERP)	

This authorization effective March 01, 2021 and
will expire 3:00 A.M. EST August 29, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Deimos-2 (Downlink) Apogee=621 km, Perigee=604 km, Inc=97.81 deg

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8025-8155 MHz	MO	130MG7D	30.56 W (ERP)	
8155-8285 MHz	MO	130MG7D	30.56 W (ERP)	

Quincy (Receive-Only), WA - NL 47-14-22; WL 119-53-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8025-8155 MHz	FX	130MG7D	30.56 W (ERP)	
8155-8285 MHz	FX	130MG7D	30.56 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) Point of communication: Deimos-2 EO (Earth Observation) NGSO satellite, operates pursuant to authority from Spain's Ministry of Economy and Business Directorate-General for Telecommunications and Information Technologies Sub-Directorate-General for Planning and Management of the Radio Spectrum.
- (4) Operation is not permitted in the uplink 2032.5675-2032.6325 MHz frequency band by the Quincy ,WA, ground station to the Deimos-2 satellite, as requested in this STA, due to harmful interference to authorized federal stations and systems

Special Conditions:

- (5) At least 14 days prior to conducting the demonstration, Microsoft Infrastructure Group LLC is required to obtain clearance for the demonstration events from NASA, Department of Commerce, Navy Marine Corps Spectrum Center, and Air Force. Microsoft Infrastructure Group LLC shall provide the satellite ephemeris, AOS/LOS times for Brewster, WA and Quincy, WA stations along with satellite transmitter activation and deactivation times and the stop buzzer POC for operations to support agency de-confliction assessment:
- a. Alfredo Mistichelli at alfredo.mistichelli@noaa.gov (202)-308-5016
 - b. Bryan Rhodes, Tel: 216.433.2473 Cell: 216.386.0995 bryan.a.rhodes@nasa.gov
 - c. Mr. James Moneyhon, (540) 653-3477- james.moneyhon@navy.mil
 - d. Mr. A. Jason Verdugo, (540) 653-9590 – Anthony.J.Verdugo@navy.mil
 - e. Mr. Phillip B. Scyphers, (540) 653-6071 – Phillip.scyphers@navy.mil
 - f. Group email box. W_DLGR_NSWC_FTMA_FM@navy.mil
 - g. Khan J. Carter, (301) 225-3772, khan.carter.1@us.af.mil
- (6) Prior to downlink operations, notify Dan "Mert" Mertely ,nrao-rfi@nrao.edu, phone: (575) 835-7128