

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WQ9XDP

(Call Sign)

1433-EX-ST-2020

(File Number)

NAME Lynk Global, Inc.

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:

The testing will provide important technical data regarding the CONOPS, which will directly impact the future versions of the systems design and performance.

Station Locations

- (1) MOBILE: Non-Geo, LEO space payload 450 km altitude, 51 deg. incl
- (2) Kapolei (OAHU), HI - NL 21-20-12; WL 158-05-25
- (3) Dublin (FRANKLIN), OH - NL 40-06-00; WL 83-12-00
- (4) Boardman (MORROW), OR - NL 45-51-00; WL 119-37-48

Frequency Information

MOBILE: Non-Geo, LEO space payload 450 km altitude, 51 deg. incl

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2259.7184-2260.2816 MHz	MO	563KDXN	2.1 W (ERP)	0.00001 %

This authorization effective October 13, 2020 and
will expire 3:00 A.M. EST March 21, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Kapolei (OAHU), HI - NL 21-20-12; WL 158-05-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2079.7184-2080.2816 MHz	FX	563KDXN	12171.7 W (ERP)	0.00001 %

Dublin (FRANKLIN), OH - NL 40-06-00; WL 83-12-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2079.7184-2080.2816 MHz	FX	563KDXN	12171.7 W (ERP)	0.00001 %

Boardman (MORROW), OR - NL 45-51-00; WL 119-37-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2079.7184-2080.2816 MHz	FX	563KDXN	12171.7 W (ERP)	0.00001 %

Special Conditions:

- (1) Upon receipt of a conjunction warning from the JSpOC or other source, the licensee must review the warning and take all possible steps to assess and, if necessary, to mitigate collision risk, including, but not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; modifying spacecraft attitude and/or operations.
- (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) Following launch of the satellite, the licensee must notify the FCC through electronic submission to the license file, of the status of the satellite (transmissions commenced, etc.), not later than 7 days after commencement or expected commencement of transmissions, and of termination of transmissions, not later than three months after such termination.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) POINT OF COMMUNICATIONS: Lynk the World Satellite.

Special Conditions:

- (6) Transmissions from the space station are only authorized towards the territory of administrations from which agreement has been obtained.
- (7) All on-orbit operations shall be limited to durations when a licensed test facility is within view of the Lynk the World satellite.
- (8) Lynk Global, Inc. must successfully coordinate with the local Society of Broadcast Engineers frequency coordinator in the proposed areas prior to operation in 2079.7184-2080.2816 MHz. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (9) Lynk Global, Inc. shall be aware that requests for operation in the 2025-2110 MHz and 2200-2290 MHz bands are considered on a case-by-case basis, and Lynk Global, Inc. shall have no expectations that future requests, including requests for renewal, will be approved.
- (10) Transmissions from the Lynk the World satellite in the 2200-2290 MHz band shall be limited to a single frequency of 2260.0 MHz and transmissions from earth stations supporting the Lynk the World satellite in the 2025-2110 MHz band shall be limited to a single frequency of 2080.0 MHz.
- (11) Lynk Global, Inc. operations using the 2025-2110 MHz or 2200-2290 MHz frequency bands shall be strictly limited to durations when the Lynk the World satellite is visible to the earth station locations coordinated with federal agencies, as listed below:
 - a. Dublin, Ohio
 - b. Boardman, Oregon
 - c. Kapolei, Oahu, Hawaii
 - d. Torri Brianche, Italy
 - e. Dublin, Ireland
- (12) Earth station transmissions using a frequency of 2080.0 MHz shall cease operation when the NASA International Space Station (NORAD designation 25544 or International Spacecraft ID 1998-067A) is within 15 degrees of the earth station antenna boresight. Lynk Global, Inc. assumes full responsibility for ensuring each supporting earth station complies with this requirement, and Lynk Global, Inc. shall notify the NASA JSC Spectrum Management Office (JSC-DL-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV) a minimum of 7 days in advance of any planned satellite contacts that are expected to require mitigation as a result of this requirement.
- (13) Lynk Global, Inc. shall coordinate the addition of any earth station location operating in the 2025-2110 MHz or 2200-2290 MHz bands not specifically identified in Condition 12 (including earth station locations outside the US&P) with the NTIA and federal agencies prior to submitting regulatory applications for operation.
- (14) Transmissions from foreign earth stations to the Lynk the World satellite shall obtain the appropriate regulatory license from the respective foreign administrations prior to operations.
- (15) All transmissions in the band 2200-2290 MHz shall comply with national and international power flux density limits, unless otherwise coordinated with the NTIA and federal agencies. PFD analysis shall be submitted with the FCC application and provided to the NTIA for US Government review.
- (16) Lynk Global, Inc. shall immediately notify the NASA JSC Spectrum Management Office (JSC-DL-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV) in the event a spacecraft anomaly prevents termination of the Lynk the World satellite transmission in the 2200-2290 MHz band.

Special Conditions:

- (17) Lynk Global, Inc. shall provide Stop Buzzer POCs for the Lynk the World satellite and supporting earth stations to the NASA JSC Spectrum Management Office (JSC-DLSPECTRUM-MANAGEMENT@MAIL.NASA.GOV) and Air Force (Jimmy.Nguyen@us.af.mil). Any changes to the Stop Buzzer POCs shall be immediately communicated.
- (18) NLT 60 days prior to launch, Lynk Global, Inc. shall provide operations and spaceflight trajectories to the Naval Surface Warfare Center, Dahlgren Division (NSWCDD). Five (5) blackout zones (BOZs) WILL be imposed as follows:
- (1) 1500 nautical mile radius centered at 22N160W
 - (2) 1500 nautical mile radius centered at 33.25N119.57W
 - (3) 1500 nautical mile radius centered at 4.11N175.2W
 - (4) 1500 nautical mile radius centered at 57.46N152.38W
 - (5) 1500 nautical mile radius centered at 32.37N106.47W
- These BOZs shall be implemented. Lynk Global must also provide their intended downlink transmission schedule for the Ireland ground station for pre-coordination. In addition, Lynk Global must also comply with any and all restrictions that may be levied by NSWCDD.

The primary contacts for frequency coordination:

Mr. James Moneyhon, (540) 653-3477- james.moneyhon@navy.mil

Mr. A. Jason Verdugo, (540) 653-9590 – Anthony.J.Verdugo@navy.mil

Mr. Phillip B. Scyphers, (540) 653-6071 – Phillip.scyphers@navy.mil

Group email box: W_DLGR_NSWC_FTMA_FM@navy.mil

- (19) The designated point-of-contacts to terminate transmissions if interference occurs are Tyghe Speidel at (240) 705-9409, and Robert Noteboom at (703) 623-7982.