

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

EXPERIMENTAL

(Nature of Service)

WR9XEE

(Call Sign)

XT MO

(Class of Station)

1497-EX-ST-2020

(File Number)

NAME Loon 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:

Evaluation of 3400-3500 MHz band to support LTE transmission technology air-to-ground; please see Exhibit A.

Station Locations

- (1) MOBILE: Winnemucca, NV, within 150 km, centered around NL 40-54-21; WL 117-48-21

Frequency Information

MOBILE: Winnemucca, NV, within 150 km, centered around NL 40-54-21; WL 117-48-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3400-3500 MHz	MO	100MW7W	243 W (ERP)	0.00001 %

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective October 15, 2020 and
will expire 3:00 A.M. EST February 15, 2021

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COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) NTIA Concur to a limited to a one-time, one day test planned, to entail transmitting for no more than 4 hours.
- (4) As soon as possible but no later than 5 business days prior to any planned testing, Loon is required to notify Mr. Ken Taylor (Email: kenneth.taylor.49@us.af.mil) and the Nevada Area Frequency Coordinator (Email: bryan.jones.33@us.af.mil) with the planned testing date/duration. If planned testing conflicts with government operations, additional evaluations and/or restrictions will be required.
- (5) Prior to operation, Loon LLC, must coordinate operation with Dr. Andrew Siemion e-mail: siemion@astro.berkeley.edu
- (6) Loon LLC is required to notify Mr. Ken Taylor (Email: kenneth.taylor.49@us.af.mil) and the Nevada Area Frequency Coordinator (Email: bryan.jones.33@us.af.mil) when the testing is completed.
- (7) Upon receipt of FCC Grant Loon is requested to provide a copy of the Grant to (Emails: kenneth.taylor.49@us.af.mil and jimmy.nguyen@us.af.mil) a copy of the FCC granted STA