

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

EXPERIMENTAL

(Nature of Service)

WL9XXE

(Call Sign)

XT MO

(Class of Station)

1511-EX-ST-2017

(File Number)

NAME Virginia Tech Applied Research Corporation

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:

Two devices operating as health/status beacons and command/control responders onboard a high altitude balloon.

Station Locations

- (1) MOBILE: East of Elko, NV to Wendover Airport, UT, within 250 km, centered around NL 40-49-56; WL 115-45-47
- (2) MOBILE: East of Elko, NV to Wendover Airport, UT, within 250 km, centered around NL 40-49-56; WL 115-45-47
- (3) MOBILE: Flight level 95000 ft, Elko, NV, within 1200 km, centered around NL 40-49-56; WL 115-45-47
- (4) MOBILE: Flight level 95000ft, East across NV,UT to Carr,CO, within 1200 km, centered around NL 40-49-56; WL 115-45-47
- (5) MOBILE: East of Elko, to area near Wendover Airport, UT, within 250 km, centered around NL 40-49-56; WL 115-45-47

Frequency Information

MOBILE: East of Elko, NV to Wendover Airport, UT, within 250 km, centered around NL 40-49-56; WL 115-45-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.075-434.775 MHz	MO	25K0F1D	28.1838 W (ERP)	0.001 %

This authorization effective November 12, 2017 and
will expire 3:00 A.M. EST December 12, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



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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.
- (3) Virginia Tech Applied Research Corporation must NOTCH OUT and not interfere with the following frequencies: 433.1 MHz, 434.0 MHz, and 434.75 MHz.

Special Conditions:

- (4) The designated point-of-contact to terminate the systems if interference occurs is Zach Leffke at (540) 231-4174 or (540) 808-6305.