

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

EXPERIMENTAL

(Nature of Service)

WL9XZN

(Call Sign)

XT MO

(Class of Station)

1620-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 transceivers will operate as low power, low rate, crosslink communications radios aboard high altitude balloons.

Station Locations

(1) MOBILE: 42.00.00 - 48.00.00 N; 98.00.00 - 88.00.00 W

Frequency Information

MOBILE: 42.00.00 - 48.00.00 N; 98.00.00 - 88.00.00 W

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.075-434.775 MHz	MO	25K0F1D	224 mW (ERP)	0.001 %

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) The designated point of contact to terminate the systems if interference occurs is Kevin Sterne at (724) 747-2876.

This authorization effective November 24, 2017 and
will expire 3:00 A.M. EST February 01, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) NTIA concurs as long as the ADS-B transponder used is TSO certified for use in Class A and E airspace.
- (5) Virginia Tech Applied Research Corporation should be aware that due to the geographic location and altitude of this application, the potential for interference with Canadian national licensees is a possibility and that should interference occur, NTIA expects Virginia Tech Applied Research Corporation to adhere to the standard restrictions/conditions as if interference with an authorized US licensee had occurred.