

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

EXPERIMENTAL

(Nature of Service)

WL9XYG

(Call Sign)

XT MO

(Class of Station)

1589-EX-ST-2017

(File Number)

NAME Insitu

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:

This test will support a Ku frequency band ground surveillance radar system and the command and control system.

Station Locations

- (1) MOBILE: Watford, ND. 5K Maximum FLight Level, within 100 km, centered around NL 47-48-08; WL 103-16-59

Frequency Information

MOBILE: Watford, ND. 5K Maximum FLight Level, within 100 km, centered around NL 47-48-08; WL 103-16-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.175 MHz	MO	6K00A3E	9 W (ERP)	
5030-5040 MHz	MO	230KF1D	1259 W (ERP)	
5030-5040 MHz	MO	230KF1D	1 W (ERP)	

This authorization effective November 20, 2017 and
will expire 3:00 A.M. EST May 01, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Watford, ND. 5K Maximum FLight Level, within 100 km, centered around NL 47-48-08; WL 103-16-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-17.2 GHz	MO	26M0F1D	4000 W (ERP)	

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) For use of 5030-5040 MHz and future renewals, Insitu must show progress in conforming with the technical standards and channelization being implemented under RTCA DO-362.
- (4) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (5) Stop buzzer is Insitu Operations Action Center at (509) 637-4691.
- (6) LICENSEE MUST COORDINATE WITH OTHER USERS AS NECESSARY TO MINIMIZE INTERFERENCE.
- (7) This frequency assignment 123.175 MHz was coordinated prior to authorization with the Area Frequency Coordinator (AFC) who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC as necessary to ensure compatibility with existing uses.