

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

EXPERIMENTAL

(Nature of Service)

WS9XEK

(Call Sign)

XT MO

(Class of Station)

0911-EX-ST-2021

(File Number)

NAME Systems & Technology Research

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:

Radar data collection from ground-based radar using phased array system under this contract. To be used to illuminate of targets of opportunity such as commercial aircraft and ground vehicles.

Station Locations

- (1) MOBILE: Surface, from Berthoud, CO, within 50 km, centered around NL 40-18-10; WL 105-04-50
- (2) MOBILE: Surface, from KBOS, Boston, MA, within 112 km, centered around NL 42-21-46; WL 71-00-23

Frequency Information

MOBILE: Surface, from Berthoud, CO, within 50 km, centered around NL 40-18-10; WL 105-04-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-10.2 GHz	MO	800MQ3N	1.08 MW (ERP)	0.01 %

This authorization effective August 01, 2021 and
will expire 3:00 A.M. EST February 01, 2022

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Frequency Information

MOBILE: Surface, from KBOS, Boston, MA, within 112 km, centered around NL 42-21-46; WL 71-00-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-10.2 GHz	MO	800MQ3N	1.08 MW (ERP)	0.01 %

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 station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) For the Boston, MA location, Systems & Technology Research must coordinate with AF HUSIR X POC Mr. Doug Moffitt at 719-554-2331. The Haystack Control Room is 781-981-5819 and the MIT-LL POC would be Mr. Dave Gordon, E-Mail: dgordon@ll.mit.edu Phone :(781) 981-4926 Work From Home (617) 863-0550
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by Air Force Space-Based Radar Payload Development Rapid Innovation Program, Contract Number FA8726-20-C-0002. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.