

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WI2XGL

(Call Sign)

0347-EX-ST-2018

(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:

Checkout testing of a prototype radar system.

Station Locations

- (1) MOBILE: Haverhill, MA: max altitude 10,000 ft. AGL, within 40 km, centered around NL 42-46-34; WL 71-04-45
- (2) MOBILE: Grayson County: max altitude 10,000 ft. AGL, within 40 km, centered around NL 33-42-41; WL 96-40-18
- (3) MOBILE: Ypsilanti, MI: max altitude 10,000 ft. AGL, within 40 km, centered around NL 42-14-15; WL 83-31-39
- (4) MOBILE: Valhermoso Springs, AL: max altitude 10,000 ft. AGL, within 40 km, centered around NL 34-36-40; WL 86-40-25

Frequency Information

MOBILE: Haverhill, MA: max altitude 10,000 ft. AGL, within 40 km, centered around NL 42-46-34; WL 71-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-8.9 GHz	MO	400MQ3N	1.55 MW (ERP)	0.1 %

This authorization effective July 06, 2018 and
will expire 3:00 A.M. EST January 06, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Haverhill, MA: max altitude 10,000 ft. AGL, within 40 km, centered around NL 42-46-34; WL 71-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.3-9.9 GHz	MO	600MQ3N	1.55 MW (ERP)	0.1 %

MOBILE: Grayson County: max altitude 10,000 ft. AGL, within 40 km, centered around NL 33-42-41; WL 96-40-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-8.9 MHz	MO	400MQ3N	1.55 MW (ERP)	0.1 %
9.3-9.9 GHz	MO	600MQ3N	1.55 MW (ERP)	0.1 %

MOBILE: Ypsilanti, MI: max altitude 10,000 ft. AGL, within 40 km, centered around NL 42-14-15; WL 83-31-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-8.9 GHz	MO	400MQ3N	1.55 MW (ERP)	0.1 %
9.3-9.9 GHz	MO	600MQ3N	1.55 MW (ERP)	0.1 %

MOBILE: Valhermoso Springs, AL: max altitude 10,000 ft. AGL, within 40 km, centered around NL 34-36-40; WL 86-40-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-8.9 GHz	MO	400MQ3N	1.55 MW (ERP)	0.1 %

Frequency Information

MOBILE: Valhermoso Springs, AL: max altitude 10,000 ft. AGL, within 40 km, centered around NL 34-36-40; WL 86-40-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.3-9.9 GHz	MO	600MQ3N	1.55 MW (ERP)	0.1 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Prior to operation, Systems & Technology Research shall provide data documenting the levels of radiated emissions produced below 8.5 GHz to the NASA Goddard Space Flight Center (GSFC) Spectrum Manager, Scott Galbraith at vincent.s.galbraith@nasa.gov, and Systems & Technology Research shall comply with any and all operating restrictions that may be levied by NASA GSFC after consideration of the data.
- (4) NTIA's concurrence is based upon the expectation that the authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper or lower limits of the requested band in this application.
- (5) Systems & Technology Research should be aware that due to the Ypsilanti, MI location and altitude of this application, NTIA is concerned that the potential for interference with Canadian national licensees is a possibility and that should interference occur, NTIA expects Systems & Technology Research to adhere to the standard restrictions/conditions as if interference with an authorized US licensee had occurred.