

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

EXPERIMENTAL

(Nature of Service)

WS9XUX

(Call Sign)

XT MO

(Class of Station)

1622-EX-ST-2021

(File Number)

NAME BAE Systems Information and Electronic Systems Integration Inc.

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:

To perform developmental/prototype testing on a new radar.

Station Locations

- (1) MOBILE: Temporary Fixed Ground Operations, Litchfield, NH, within 0.5 km, centered around NL 42-48-22; WL 71-25-33
- (2) MOBILE: Mobile Airborne Operations, Litchfield, NH, within 2 km, centered around NL 42-48-22; WL 71-25-33
- (3) MOBILE: Mobile Airborne Operations, Merrimack, NH, within 2 km, centered around NL 42-48-39; WL 71-29-19

Frequency Information

MOBILE: Temporary Fixed Ground Operations, Litchfield, NH, within 0.5 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37-40 GHz	MO	N0N	2000 W (ERP)	
		100MP0N		
		100MQ1N		
		100MQ3N		
		150MP0N		
		150MQ1N		

This authorization effective November 05, 2021 and
will expire 3:00 A.M. EST May 06, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed Ground Operations, Litchfield, NH, within 0.5 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37-40 GHz	MO	150MQ3N	2000 W (ERP)	
		15M0P0N		
		15M0Q1N		
		15M0Q3N		
		200MP0N		
		200MQ1N		
		200MQ3N		

MOBILE: Mobile Airborne Operations, Litchfield, NH, within 2 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37-40 GHz	MO	N0N	2000 W (ERP)	
		100MP0N		
		100MQ1N		
		100MQ3N		
		150MP0N		
		150MQ1N		
		150MQ3N		
		15M0P0N		
		15M0Q1N		
		15M0Q3N		
		200MP0N		
		200MQ1N		
		200MQ3N		

Frequency Information

MOBILE: Mobile Airborne Operations, Merrimack, NH, within 2 km, centered around NL 42-48-39; WL 71-29-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37-40 GHz	MO	N0N	2000 W (ERP)	
		100MP0N		
		100MQ1N		
		100MQ3N		
		150MP0N		
		150MQ1N		
		150MQ3N		
		15M0P0N		
		15M0Q1N		
		15M0Q3N		
		200MP0N		
		200MQ1N		
		200MQ3N		

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) BAE Systems Information and Electronic Systems Integration Inc. must obtain consents from the Upper Microwave Flexible Use Service licensees in each proposed area prior commencing the experimental operations.
- (3) BAE Systems Information and Electronic Systems Integration Inc. must coordinate with Fixed Microwave Service licensees in each proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in the requested frequency bands.
- (4) All BAE Systems Information and Electronic Systems Integration Inc. operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating stations. BAE Systems Information and Electronic Systems Integration Inc. should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee will be subject to immediate shut down. BAE Systems Information and Electronic Systems Integration Inc. shall also be aware that long term, multiple location, or operational use of this band is not possible, and BAE Systems Information and Electronic Systems Integration Inc. shall have no expectation that future requests for operation in this band will be approved.
- (5) The 37-38 GHz band shall not be used for airborne operations.
- (6) The unwanted emission mean power (considered in terms of Total Radiated Power (TRP)) within the 36-37 GHz frequency band shall not exceed -43 dB(W/MHz) and -23 dB(W/GHz), and is recommended to be less than -30 dB(W/GHz).

Special Conditions:

- (7) All operations must be coordinated with the Federal Space Research Service (space to Earth) users of the band via the National Telecommunications and Information Administration (NTIA) prior to operation within the coordination zones outlined in 47 CFR 30.205.
- (8) Stop buzzer, Eduardo Martony at 603-305-4284 and Ray Patel at 817-401-0310.