

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

EXPERIMENTAL

(Nature of Service)

WR9XFG

(Call Sign)

XT MO

(Class of Station)

1545-EX-ST-2020

(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:

Testing antenna.

Station Locations

- (1) MOBILE: Temporary Fixed Ground Operations, Pembroke, NH, within 5 km, centered around NL 43-11-44; WL 71-28-35
- (2) MOBILE: Airborne Operations, Pembroke, NH, within 16 km, centered around NL 43-11-44; WL 71-28-35
- (3) MOBILE: Airborne Operations, Manchester, NH, within 10 km, centered around NL 42-55-12; WL 71-28-48

Frequency Information

MOBILE: Temporary Fixed Ground Operations, Pembroke, NH, within 5 km, centered around NL 43-11-44; WL 71-28-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.05-24.25 GHz	MO	N0N 1M00F3N	12619 W (ERP)	
24.399-24.401 GHz	MO	N0N	12619 W (ERP)	

This authorization effective December 01, 2020 and
will expire 3:00 A.M. EST January 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed Ground Operations, Pembroke, NH, within 5 km, centered around NL 43-11-44; WL 71-28-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.399-24.401 GHz	MO	1M00F3N	12619 W (ERP)	
24.45-24.65 GHz	MO	1M00F3N	12619 W (ERP)	
24.65-24.75 GHz	MO	1M00F3N 1M00P0N	12619 W (ERP)	
24.75-25.05 GHz	MO	N0N 1M00F3N	12619 W (ERP)	

MOBILE: Airborne Operations, Pembroke, NH, within 16 km, centered around NL 43-11-44; WL 71-28-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.05-24.25 GHz	MO	N0N 1M00F3N	12619 W (ERP)	
24.399-24.401 GHz	MO	N0N 1M00F3N	12619 W (ERP)	
24.45-24.65 GHz	MO	1M00F3N	12619 W (ERP)	
24.65-24.75 GHz	MO	1M00F3N	12619 W (ERP)	

Frequency Information

MOBILE: Airborne Operations, Pembroke, NH, within 16 km, centered around NL 43-11-44; WL 71-28-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.65-24.75 GHz	MO	1M00P0N	12619 W (ERP)	
24.75-25.05 GHz	MO	N0N 1M00F3N	12619 W (ERP)	

MOBILE: Airborne Operations, Manchester, NH, within 10 km, centered around NL 42-55-12; WL 71-28-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.05-24.25 GHz	MO	N0N 1M00F3N	12619 W (ERP)	
24.399-24.401 GHz	MO	N0N 1M00F3N	12619 W (ERP)	
24.45-24.65 GHz	MO	1M00F3N	12619 W (ERP)	
24.65-24.75 GHz	MO	1M00F3N 1M00P0N	12619 W (ERP)	
24.75-25.05 GHz	MO	N0N 1M00F3N	12619 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) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (4) Licensee must provide written notice to Audacy Corporation (ralph.ewing@audacy.space) of licensee's proposed operations in the 24.65-24.7 GHz frequency band prior to commencing operations in this band.
- (5) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (6) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (7) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (8) 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 station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (9) The applicant must obtain consents from the Upper Microwave Flexible Use Service licensees in each corresponding proposed venue prior to conducting the testing.
- (10) Prior to commencing any operations in the 24.75-25.05 GHz frequency band, experimental licensee must notify licensee of DIRECTV Enterprises, LLC/ AT&T (Mr. Raquel Noriega, 202.412.5623, Email: raquel.noriega@att.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (11) Stop Buzzers, Austin Dionne 603-540-1620 and Jacob Freedman 603-867-1028.
- (12) BAE Systems Information and Electronic Systems Integration, Inc. must notch out the 24.0-24.05 GHz frequency band from operations in order to prevent adjacent band interference into passive systems.
- (13) BAE Systems Information and Electronic Systems Integration, Inc. must avoid transmitting in the direction of the Hancock, NH VLBA site (at 42°56'1.01"N, 71°59'11.99"W) and prior to operations must coordinate with Mr. Dan Mertely, nrao-rfi@nrao.edu, phone: (575) 835-7128.