

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WL2XKR

(Call Sign)

XT MO

(Class of Station)

1048-EX-CN-2020

(File Number)

NAME BAE Systems Information and Electronic Systems Integration Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(h) of the Commission's Rules

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 1M00F3N	12619 W (ERP)	

This authorization effective February 10, 2021 and
will expire 3:00 A.M. EST February 01, 2022

**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 (+/-)
24.45-24.65 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 1M00P0N	12619 W (ERP)	
24.75-25.05 GHz	MO	N0N	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 (+/-)
24.75-25.05 GHz	MO	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.

Special Conditions:

- (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) Operation the frequency band 24.45- 24.75 GHz is not permitted using the emission designator "NON".
- (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 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.
- (13) Licensee must successfully secure consents from the Upper Microwave Flexible Use Service licensees in the proposed areas prior to accessing to 24.05-24.25 GHz, 24.399-24.401 GHz, 24.45-24.65 GHz, 24.65-24.75 GHz, and 24.75-25.05 GHz bands.