

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WJ2XXQ

(Call Sign)

0205-EX-CM-2021

(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(hb) of the Commission's Rules

Station Locations

(1) Merrimack (HILLSBOROUGH), NH - NL 42-48-46; WL 71-29-23

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-46; WL 71-29-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1025-1035 MHz	FX	P0N	1 W (ERP)	
1059.6-1060.4 MHz	FX	N0N	100 W (ERP)	
1087-1093 MHz	FX	P0N	1 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.

This authorization effective October 12, 2021 and
will expire 3:00 A.M. EST November 10, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Operation is subject to prior coordination with FAA.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by NAVAIR, N00019-19-C-0052 (OE-120 Antenna Pattern Data Collection). 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.
- (5) The Stop Buzzers, George Moynihan - 603-689-8630 and BAE Systems Emergency Services Center - 603-885-3842.
- (6) Transmission will be a single pulse with 265 micro-second pulse width.
- (7) For 1025-1035 MHz and 1087-1093 MHz, ERP is limited to 1W with a PRF of 1.
- (8) The 25 dBi gain parabolic antenna should be pointed 190 degrees referenced to true North.
- (9) Licensee shall notify the FAA Spectrum Management Office of each and every OE-120()/UPX antenna sell off event at least one week prior to the event and provide current contact information for the event. The FAA contact points are Mr. Rodney Murphy (RODNEY.MURPHY@FAA.GOV) and Mr. Don Nellis (DONALD.NELLIS@FAA.GOV)
- (10) BAE Systems is willing to accept the same conditions that were recently imposed by FAA.
- (11) Any changes to the transmit antenna for 1025-1035 MHz and 1087-1093 MHz will require recoordination with the FAA and require the user to provide the full radiation pattern; which includes (360-degree) azimuth pattern and elevation pattern.
- (12) Any changes of US contract and technical parameters will require to submit the modification application.
- (13) This authorization SUPERSEDES the previously issued authorization with same call sign and file number: amended emission designators and conditions.