

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

EXPERIMENTAL

(Nature of Service)

WE2XRJ

(Call Sign)

XC MO

(Class of Station)

0088-EX-ML-2011

(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(i) of the Commission's Rules

Station Locations

- (1) MOBILE: Merrimack (HILLSBOROUGH), NH, within 0.5 km, centered around NL 42-48-39; WL 71-29-19

Frequency Information

MOBILE: Merrimack (HILLSBOROUGH), NH, within 0.5 km, centered around NL 42-48-39; WL 71-29-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
228.8-234.5875 MHz	MO	5M00G1W 32K0F7E	0.5 W (ERP)	
243.3-328.6 MHz	MO	5M00G1W 32K0F7E	0.5 W (ERP)	
335.4-454 MHz	MO	5M00G1W 32K0F7E	0.5 W (ERP)	

This authorization effective April 29, 2011 and
will expire 3:00 A.M. EST May 31, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Merrimack (HILLSBOROUGH), NH, within 0.5 km, centered around NL 42-48-39; WL 71-29-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.215-1.27 GHz	MO	5M00G1W 32K0F7E	0.5 W (ERP)	
1.215-1.27 GHz	MO	5M00G1W 32K0F7E	0.5 W (ERP)	
1.37-1.435 GHz	MO	5M00G1W 32K0F7E	0.5 W (ERP)	
1.525-1.559 GHz	MO	5M00G1W 32K0F7E	0.5 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.

Special Conditions:

- (3) Licensee must notch out the following frequencies +/- 12.5 kHz:

228.900 MHz
239.025 MHz
254.250 MHz
255.400 MHz
257.800 MHz
260.900 MHz
263.000 MHz
263.050 MHz
263.100 MHz
269.400 MHz
273.450 MHz
279.600 MHz
307.900 MHz
338.200 MHz
341.700 MHz
343.600 MHz
348.700 MHz
353.500 MHz
353.700 MHz
364.200 MHz
370.900 MHz
377.150 MHz
381.400 MHz
382.000 MHz
385.450 MHz
410.075 MHz

- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE), ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org, for the 450-454 MHz and 455-456 MHz bands in order to protect low power Broadcast Auxiliary Remote Pickup operations near the test site.
- (5) Stop Buzzer: Randolph Beltz, Chief Engineer, (603) 759-3077.
- (6) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (7) Under no circumstances should the ERP exceed 0.007 Watts (+/-) 10 MHz of 1227.6 MHz
- (8) The Maximum ERP should be under 0.0001 W for frequency 1215 MHz.
- (9) This authorization is issued for the express purpose of conducting experimental operations described in the related application and requires by US Army contract number W911QY-08-D-0015 and DARPA contract number W15P7T-10-C-A026. 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.