

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WD2XSG

(Call Sign)

0308-EX-RR-2016

(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(d g) of the Commission's Rules

Station Locations

- (1) Merrimack (HILLSBOROUGH), NH - NL 42-48-30; WL 71-29-15
- (2) Merrimack (HILLSBOROUGH), NH - NL 42-48-39; WL 71-29-19

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.8 MHz	FX	NON	0.00316 W (ERP)	
75.2-108 MHz	FX	NON	0.00316 W (ERP)	
137-152.855 MHz	FX	NON	0.00316 W (ERP)	
154-156.515 MHz	FX	NON	0.00316 W (ERP)	

This authorization effective September 01, 2016 and
will expire 3:00 A.M. EST September 01, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
156.535-156.79 MHz	FX	N0N	0.00316 W (ERP)	
156.8125-161.625 MHz	FX	N0N	0.00316 W (ERP)	
161.775-162 MHz	FX	N0N	0.00316 W (ERP)	
174-216 MHz	FX	N0N	0.00316 W (ERP)	
450-454 MHz	FX	N0N	0.00316 W (ERP)	
456-470 MHz	FX	N0N	0.00316 W (ERP)	
809-928 MHz	FX	N0N	0.00398 W (ERP)	
933-935 MHz	FX	N0N	0.00398 W (ERP)	
941-944 MHz	FX	N0N	0.00398 W (ERP)	
1.215-1.27 GHz	FX	N0N	0.00398 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.37-1.559 GHz	FX	N0N	0.00398 W (ERP)	
1.61-1.85 GHz	FX	N0N	0.00398 W (ERP)	
2.15-2.16 GHz	FX	N0N	0.00398 W (ERP)	
2.2-2.45 GHz	FX	N0N	0.00398 W (ERP)	
2.9-4.2 GHz	FX	N0N	0.00398 W (ERP)	
4.4-5 GHz	FX	N0N	0.00398 W (ERP)	
5.25-5.6 GHz	FX	N0N	0.00398 W (ERP)	
5.65-5.925 GHz	FX	N0N	0.00398 W (ERP)	
7.125-10 GHz	FX	N0N	0.00398 W (ERP)	
10-10.55 GHz	FX	N0N	0.00398 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11.7-12.7 GHz	FX	N0N	0.00398 W (ERP)	
13.25-17.7 GHz	FX	N0N	0.00398 W (ERP)	
13.25-15.7 GHz	FX	N0N	0.00398 W (ERP)	
16.2-17.7 GHz	FX	N0N	0.00398 W (ERP)	
19.7-20 GHz	FX	N0N	0.00398 W (ERP)	
20-21.2 GHz	FX	N0N	0.00398 W (ERP)	
24-24.25 GHz	FX	N0N	0.00398 W (ERP)	
24.45-25.05 GHz	FX	N0N	0.00398 W (ERP)	
25.25-26 GHz	FX	N0N	0.00398 W (ERP)	

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30-74.8 MHz	FX	N0N	0.00316 W (ERP)	
75.2-108 MHz	FX	N0N	0.00316 W (ERP)	
137-152.855 MHz	FX	N0N	0.00316 W (ERP)	
154-156.515 MHz	FX	N0N	0.00316 W (ERP)	
156.535-156.79 MHz	FX	N0N	0.00316 W (ERP)	
156.8125-161.625 MHz	FX	N0N	0.00316 W (ERP)	
161.775-162 MHz	FX	N0N	0.00316 W (ERP)	
174-216 MHz	FX	N0N	0.00316 W (ERP)	
450-454 MHz	FX	N0N	0.00316 W (ERP)	
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1.215-1.27 GHz	FX	N0N	0.00398 W (ERP)	
1.37-1.559 GHz	FX	N0N	0.00398 W (ERP)	
1.61-1.85 GHz	FX	N0N	0.00398 W (ERP)	
2.15-2.16 GHz	FX	N0N	0.00398 W (ERP)	
2.2-2.45 GHz	FX	N0N	0.00398 W (ERP)	
2.9-4.2 GHz	FX	N0N	0.00398 W (ERP)	
4.4-5 GHz	FX	N0N	0.00398 W (ERP)	

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5.25-5.6 GHz	FX	N0N	0.00398 W (ERP)	
5.65-5.925 GHz	FX	N0N	0.00398 W (ERP)	
7.125-10 GHz	FX	N0N	0.00398 W (ERP)	
10-10.55 GHz	FX	N0N	0.00398 W (ERP)	
11.7-12.7 GHz	FX	N0N	0.00398 W (ERP)	
13.25-17.7 GHz	FX	N0N	0.00398 W (ERP)	
13.25-15.7 GHz	FX	N0N	0.00398 W (ERP)	
16.2-17.7 GHz	FX	N0N	0.00398 W (ERP)	
19.7-20 GHz	FX	N0N	0.00398 W (ERP)	
20-21.2 GHz	FX	N0N	0.00398 W (ERP)	

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24-24.25 GHz	FX	N0N	0.00398 W (ERP)	
24.45-25.05 GHz	FX	N0N	0.00398 W (ERP)	
25.25-26 GHz	FX	N0N	0.00398 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) In the band 7125-10000 MHz, licensee shall exclude operations on the following frequencies plus or minus 10 MHz: M7186, M7310, M7410, M7500, M7605, M7700, M7710, M7810, M7925, M8005, M8090, M8170, M8210, M8250, M8290, M8330.
- (4) Operation in the frequency bands 1435-1535 MHz or 2310-2390 MHz is subject to prior coordination with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (5) The designed point-of-contact to terminate transmissions if interference occurs is Mr. George Moynihan at 603-689-8630 and BAE Systems Emergency Services Center - (603) 885-3842.
- (6) Operation in the frequency bands 960-1400, 2700-3000, or 9000-9200 MHz is subject to prior coordination with the FAA Regional Office.
- (7) Operation is NOT PERMITTED use of the following frequency bands 161.9625-161.9875 MHz, 216-228.6 MHz; 228.8-450 MHz, 1270-1370 MHz, 1559-1610 MHz, 2690-2700 MHz, 5600-5650 MHz and 15700-16200 MHz on this renewal due to potential interference to Federal Government operations.
- (8) The use of frequencies under the authority of this assignment is subject to further coordination with HQ USAF frequency coordinator in Alexandria, VA to ensure compatibility with existing uses.
- (9) The frequency band 1215-1850 MHz was coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591. Phone 202-267-8699.