

**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)

0136-EX-RR-2008

(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		0.00316 W (ERP)	
75.2-108 MHz	FX		0.00316 W (ERP)	
137-152.855 MHz	FX		0.00316 W (ERP)	
154-156.515 MHz	FX		0.00316 W (ERP)	

This authorization effective September 01, 2008 and
will expire 3:00 A.M. EST September 01, 2010

**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		0.00316 W (ERP)	
156.8125-161.625 MHz	FX		0.00316 W (ERP)	
161.775-162 MHz	FX		0.00316 W (ERP)	
174-228.6 MHz	FX		0.00316 W (ERP)	
228.8-242.8 MHz	FX		0.00316 W (ERP)	
243.2-328.6 MHz	FX		0.00316 W (ERP)	
335.4-454 MHz	FX		0.00316 W (ERP)	
456-470 MHz	FX		0.00316 W (ERP)	
809-928 MHz	FX		0.00398 W (ERP)	
933-935 MHz	FX		0.00398 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
941-944 MHz	FX		0.00398 W (ERP)	
1.215-1.27 GHz	FX		0.00398 W (ERP)	
1.37-1.559 GHz	FX		0.00398 W (ERP)	
1.61-1.85 GHz	FX		0.00398 W (ERP)	
2.15-2.16 GHz	FX		0.00398 W (ERP)	
2.2-2.45 GHz	FX		0.00398 W (ERP)	
2.655-2.7 GHz	FX		0.00398 W (ERP)	
2.9-4.2 GHz	FX		0.00398 W (ERP)	
4.4-5 GHz	FX		0.00398 W (ERP)	
5.25-5.6 GHz	FX		0.00398 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.65-5.925 GHz	FX		0.00398 W (ERP)	
7.125-10 GHz	FX		0.00398 W (ERP)	
10-10.55 GHz	FX		0.00398 W (ERP)	
11.7-12.7 GHz	FX		0.00398 W (ERP)	
13.25-15.7 GHz	FX		0.00398 W (ERP)	
16.2-17.7 GHz	FX		0.00398 W (ERP)	
19.7-20 GHz	FX		0.00398 W (ERP)	
20-21.2 GHz	FX		0.00398 W (ERP)	
24-24.25 GHz	FX		0.00398 W (ERP)	
24.45-25.05 GHz	FX		0.00398 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25.25-26 GHz	FX		0.00398 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.8 MHz	FX		0.00316 W (ERP)	
75.2-108 MHz	FX		0.00316 W (ERP)	
137-152.855 MHz	FX		0.00316 W (ERP)	
154-156.515 MHz	FX		0.00316 W (ERP)	
156.535-156.79 MHz	FX		0.00316 W (ERP)	
156.8125-161.625 MHz	FX		0.00316 W (ERP)	
161.775-162 MHz	FX		0.00316 W (ERP)	
174-228.6 MHz	FX		0.00316 W (ERP)	

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228.8-242.8 MHz	FX		0.00316 W (ERP)	
243.2-328.6 MHz	FX		0.00316 W (ERP)	
335.4-454 MHz	FX		0.00316 W (ERP)	
456-470 MHz	FX		0.00316 W (ERP)	
809-928 MHz	FX		0.00398 W (ERP)	
933-935 MHz	FX		0.00398 W (ERP)	
941-944 MHz	FX		0.00398 W (ERP)	
1.215-1.27 GHz	FX		0.00398 W (ERP)	
1.37-1.559 GHz	FX		0.00398 W (ERP)	
1.61-1.85 GHz	FX		0.00398 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.15-2.16 GHz	FX		0.00398 W (ERP)	
2.2-2.45 GHz	FX		0.00398 W (ERP)	
2.655-2.7 GHz	FX		0.00398 W (ERP)	
2.9-4.2 GHz	FX		0.00398 W (ERP)	
4.4-5 GHz	FX		0.00398 W (ERP)	
5.25-5.6 GHz	FX		0.00398 W (ERP)	
5.65-5.925 GHz	FX		0.00398 W (ERP)	
7.125-10 GHz	FX		0.00398 W (ERP)	
10-10.55 GHz	FX		0.00398 W (ERP)	
11.7-12.7 GHz	FX		0.00398 W (ERP)	

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16.2-17.7 GHz	FX		0.00398 W (ERP)	
19.7-20 GHz	FX		0.00398 W (ERP)	
20-21.2 GHz	FX		0.00398 W (ERP)	
24-24.25 GHz	FX		0.00398 W (ERP)	
24.45-25.05 GHz	FX		0.00398 W (ERP)	
25.25-26 GHz	FX		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) Operation in the frequency bands 225.0-328 MHz or 335.4-399.9 MHz is subject to prior coordination with the Department of the Air Force.

Special Conditions:

- (6) The designed point-of-contact to terminate transmissions if interference occurs is Mr. Johnson 603-689-8630.
- (7) Operation in the frequency bands 960-1400, 2700-3000, or 9000-9200 MHz is subject to prior coordination with the FAA Regional Coordinators.