

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WD2XVL

(Call Sign)

0288-EX-RR-2012

(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(b) of the Commission's Rules

Station Locations

(1) Litchfield (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency Information

Litchfield (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
0.85 MHz	FX	NON	0.007 W (ERP)	
0.9 MHz	FX	NON	0.007 W (ERP)	
0.95 MHz	FX	NON	0.007 W (ERP)	
1 MHz	FX		0.007 W (ERP)	

This authorization effective October 29, 2012 and
will expire 3:00 A.M. EST October 31, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Litchfield (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.5 MHz	FX		0.007 W (ERP)	
2 MHz	FX		0.007 W (ERP)	
2.51 MHz	FX		0.007 W (ERP)	
2.84 MHz	FX		0.007 W (ERP)	
3.5 MHz	FX		0.007 W (ERP)	
4 MHz	FX		0.007 W (ERP)	
4.5 MHz	FX		0.007 W (ERP)	
5.01 MHz	FX		0.007 W (ERP)	
5.44 MHz	FX		0.007 W (ERP)	
6 MHz	FX		0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.5 MHz	FX		0.007 W (ERP)	
7 MHz	FX		0.007 W (ERP)	
7.5 MHz	FX		0.007 W (ERP)	
8 MHz	FX		0.007 W (ERP)	
8.5 MHz	FX		0.007 W (ERP)	
9.05 MHz	FX		0.007 W (ERP)	
9.5 MHz	FX		0.007 W (ERP)	
9.99 MHz	FX		0.007 W (ERP)	
10.05 MHz	FX		0.007 W (ERP)	
10.5 MHz	FX		0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11 MHz	FX		0.007 W (ERP)	
11.5 MHz	FX		0.007 W (ERP)	
12 MHz	FX		0.007 W (ERP)	
12.5 MHz	FX		0.007 W (ERP)	
13 MHz	FX		0.007 W (ERP)	
13.5 MHz	FX		0.007 W (ERP)	
14 MHz	FX		0.007 W (ERP)	
14.5 MHz	FX		0.007 W (ERP)	
14.98 MHz	FX		0.007 W (ERP)	
15.5 MHz	FX		0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16 MHz	FX		0.007 W (ERP)	
16.5 MHz	FX		0.007 W (ERP)	
17 MHz	FX		0.007 W (ERP)	
17.5 MHz	FX		0.007 W (ERP)	
18.04 MHz	FX		0.007 W (ERP)	
18.5 MHz	FX		0.007 W (ERP)	
19 MHz	FX		0.007 W (ERP)	
19.5 MHz	FX		0.007 W (ERP)	
20.02 MHz	FX		0.007 W (ERP)	
20.5 MHz	FX		0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21 MHz	FX		0.007 W (ERP)	
21.5 MHz	FX		0.007 W (ERP)	
22 MHz	FX		0.007 W (ERP)	
22.5 MHz	FX		0.007 W (ERP)	
23 MHz	FX		0.007 W (ERP)	
23.5 MHz	FX		0.007 W (ERP)	
24 MHz	FX		0.007 W (ERP)	
24.5 MHz	FX		0.007 W (ERP)	
25.02 MHz	FX		0.007 W (ERP)	
25.5 MHz	FX		0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
26 MHz	FX		0.007 W (ERP)	
26.5 MHz	FX		0.007 W (ERP)	
27 MHz	FX		0.007 W (ERP)	
27.5 MHz	FX		0.007 W (ERP)	
28 MHz	FX		0.007 W (ERP)	
28.5 MHz	FX		0.007 W (ERP)	
29 MHz	FX		0.007 W (ERP)	
29.5 MHz	FX		0.007 W (ERP)	
30 MHz	FX		0.007 W (ERP)	
30-74.8 MHz	FX	NON	0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
75.2-108 MHz	FX	N0N	0.007 W (ERP)	
120.1-129.2 MHz	FX	N0N	0.007 W (ERP)	
137-152.885 MHz	FX	N0N	0.007 W (ERP)	
154-156.515 MHz	FX	N0N	0.007 W (ERP)	
156.535-156.79 MHz	FX	N0N	0.007 W (ERP)	
156.81-161.625 MHz	FX	N0N	0.007 W (ERP)	
161.775-162 MHz	FX	N0N	0.007 W (ERP)	
456-470 MHz	FX	N0N	0.007 W (ERP)	
508-608 MHz	FX	N0N	0.007 W (ERP)	
809-928 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
933-935 MHz	FX	N0N	0.007 W (ERP)	
941-944 MHz	FX	N0N	0.007 W (ERP)	
1.251-1.35 GHz	FX	N0N	0.007 W (ERP)	
1.35-1.435 GHz	FX	N0N	0.007 W (ERP)	
1.525-1.535 GHz	FX	N0N	0.007 W (ERP)	
1.67-1.85 GHz	FX	N0N	0.007 W (ERP)	
2.15-2.16 GHz	FX	N0N	0.007 W (ERP)	
2.2-2.45 GHz	FX	N0N	0.007 W (ERP)	
2.655-2.69 GHz	FX	N0N	0.007 W (ERP)	
2.9-4.2 GHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.4-5 GHz	FX	N0N	0.007 W (ERP)	
5.25-5.925 GHz	FX	N0N	0.007 W (ERP)	
7.125-10 GHz	FX	N0N	0.007 W (ERP)	
10-10.55 GHz	FX	N0N	0.007 W (ERP)	
11.7-12.7 GHz	FX	N0N	0.007 W (ERP)	
13.25-17.7 GHz	FX	N0N	0.007 W (ERP)	
19.7-20 GHz	FX	N0N	0.007 W (ERP)	
20-21.2 GHz	FX	N0N	0.007 W (ERP)	
24.45-25.05 GHz	FX	N0N	0.007 W (ERP)	

Special Conditions:

- (1) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA New England Coordinator, Burlington, MA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA New England Coordinator, Burlington, MA, as necessary to ensure compatibility with existing uses.

Special Conditions:

- (2) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the HQ USAF Frequency Coordinator, Alexandria, VA., who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the HQ USAF Frequency Coordinator, Alexandria, VA., as necessary to ensure compatibility with existing uses.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) "Stop Buzzer" contact Rick Ball at (603) 318-6913 or BAE Systems Emergency Services Center at (603) 885-3842 shall be available during testing to cease operations in the event of any interference.
- (6) Licensee must follow Air Force restrictions in order to use the frequency band 2310-2320 MHz or 2345-2390 MHz:
 1. Send an email to hanscom.spectrum@hanscom.af.mil prior to starting each test identifying the test, location, Stop Buzzer and anticipated duration of the test event.
 2. Stop Buzzer contact must be at the test location and available during the entire duration of the test.
- (7) Operation is NOT permitted using the following frequencies band: 174 - 228.6 MHz, 228.8 - 328.6 MHz, 335.4 - 454 MHz, 23.6 - 24.25 GHz and 25.25 - 26 GHz.
- (8) A renewal of this license is subject to prior coordination with Federal Aviation Administration (FAA) and Aerospace Flight Test Radio Coordination Council (AFTRCC).