

**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)

0298-EX-PL-2005

(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		0.007 W (ERP)	
0.95 MHz	FX		0.007 W (ERP)	
1 MHz	FX		0.007 W (ERP)	

This authorization effective March 22, 2007 and
will expire 3:00 A.M. EST December 01, 2010

**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)	

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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		0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
75.2-108 MHz	FX		0.007 W (ERP)	
120.1-129.2 MHz	FX		0.007 W (ERP)	
137-152.885 MHz	FX		0.007 W (ERP)	
154-156.515 MHz	FX		0.007 W (ERP)	
156.535-156.79 MHz	FX		0.007 W (ERP)	
156.81-161.625 MHz	FX		0.007 W (ERP)	
161.775-162 MHz	FX		0.007 W (ERP)	
174-228.6 MHz	FX		0.007 W (ERP)	
228.8-328.6 MHz	FX		0.007 W (ERP)	
335.4-454 MHz	FX		0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456-470 MHz	FX		0.007 W (ERP)	
508-608 MHz	FX		0.007 W (ERP)	
809-928 MHz	FX		0.007 W (ERP)	
933-935 MHz	FX		0.007 W (ERP)	
941-944 MHz	FX		0.007 W (ERP)	
1.251-1.85 GHz	FX		0.007 W (ERP)	
1.35-1.435 GHz	FX		0.007 W (ERP)	
1.525-1.535 GHz	FX		0.007 W (ERP)	
1.67-1.85 GHz	FX		0.007 W (ERP)	
2.15-2.16 GHz	FX		0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.2-2.45 GHz	FX		0.007 W (ERP)	
2.655-2.69 GHz	FX		0.007 W (ERP)	
2.9-4.2 GHz	FX		0.007 W (ERP)	
4.4-5 GHz	FX		0.007 W (ERP)	
5.25-5.925 GHz	FX		0.007 W (ERP)	
7.125-10 GHz	FX		0.007 W (ERP)	
10-10.55 GHz	FX		0.007 W (ERP)	
11.7-12.7 GHz	FX		0.007 W (ERP)	
13.25-17.7 GHz	FX		0.007 W (ERP)	
19.7-20 GHz	FX		0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20-21.2 GHz	FX		0.007 W (ERP)	
23.6-24.25 GHz	FX		0.007 W (ERP)	
24.45-25.05 GHz	FX		0.007 W (ERP)	
25.25-26 GHz	FX		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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) "Stop Buzzer" contact Richard C. Ball shall be available during testing at 603-318-6913 to cease operations in the event of any interference.
- (5) No emissions are permitted within +/- 25 kHz of the following frequencies (all in MHz):
120.275; 120.600; 121.300; 121.500; 121.800; 122.200; 122.300; 123.750; 124.100; 124.400; 124.600; 124.900; 125.050; 125.100; 125.825; 125.950; 126.500; 126.750; 127.200; 127.350; 128.200; 128.325; 128.400
- (6) No emissions are permitted within +/- 25 kHz of the following frequencies (all in MHz):
228.900; 239.025; 243.000; 254.250; 255.400; 260.900; 263.050; 263.100; 269.300; 273.450; 277.400; 279.600; 282.200; 284.750; 307.900; 338.200; 341.700; 343.600; 348.700; 353.700; 354.100; 360.600; 364.200; 370.000; 381.400; 381.650; 382.000; 385.450

Special Conditions:

- (7) No emissions are permitted within +/- 25 kHz on the following frequencies (all in MHz): 338.200, 341.700, 343.600, 348.700, 353.700, 354.100, 360.600, 364.200, 370.000, 381.400, 381.650, 382.000, 385.450