

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WF2XAM

(Call Sign)

0147-EX-PL-2006

(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) Litchfield (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33
- (2) MOBILE: East Rindge, New Hampshire, within 32 km, centered around NL 42-44-15;
WL 71-57-59

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15-29.9 MHz	FX	NON	5 W (ERP)	
15-29.9 MHz	FX	NON	0.007 W (ERP)	
15-29.9 MHz	FX	25K0F3D	5 W (ERP)	
29.975 MHz	FX	NON	5 W (ERP)	

This authorization effective January 31, 2011 and
will expire 3:00 A.M. EST April 19, 2011

**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 (+/-)
29.975 MHz	FX	N0N	0.007 W (ERP)	
29.975 MHz	FX	25K0F3D	5 W (ERP)	
30-73 MHz	FX	N0N 25K0F3D	5 W (ERP)	
75.2-108 MHz	FX	N0N 25K0F3D	5 W (ERP)	
120.1-129.2 MHz	FX	N0N	5 W (ERP)	
129.5-135.2 MHz	FX	N0N	0.007 W (ERP)	
129.5-136.15 MHz	FX	N0N	5 W (ERP)	
137-138 MHz	FX	N0N	5 W (ERP)	
144-152.885 MHz	FX	N0N 25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
153.4 MHz	FX	N0N	5 W (ERP)	
153.4 MHz	FX	N0N	0.007 W (ERP)	
153.4 MHz	FX	25K0F3D	5 W (ERP)	
154-156.515 MHz	FX	N0N 25K0F3D	5 W (ERP)	
156.81-161.625 MHz	FX	N0N 25K0F3D	5 W (ERP)	
162.85 MHz	FX	N0N	5 W (ERP)	
162.85 MHz	FX	N0N	0.007 W (ERP)	
162.85 MHz	FX	25K0F3D	5 W (ERP)	
164-173.4 MHz	FX	N0N	5 W (ERP)	
164-173.4 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
164-173.4 MHz	FX	25K0F3D	5 W (ERP)	
174-228.6 MHz	FX	N0N	5 W (ERP)	
228.8-328.6 MHz	FX	N0N	5 W (ERP)	
335.4-454 MHz	FX	N0N	5 W (ERP)	
456-470 MHz	FX	N0N 25K0F3D	5 W (ERP)	
472.225 MHz	FX	N0N	5 W (ERP)	
472.225 MHz	FX	N0N	0.007 W (ERP)	
472.225 MHz	FX	25K0F3D	5 W (ERP)	
476.95 MHz	FX	N0N	5 W (ERP)	
476.95 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
476.95 MHz	FX	25K0F3D	5 W (ERP)	
481.725 MHz	FX	N0N	5 W (ERP)	
481.725 MHz	FX	N0N	0.007 W (ERP)	
481.725 MHz	FX	25K0F3D	5 W (ERP)	
486.525 MHz	FX	N0N	5 W (ERP)	
486.525 MHz	FX	N0N	0.007 W (ERP)	
486.525 MHz	FX	25K0F3D	5 W (ERP)	
491.4 MHz	FX	N0N	5 W (ERP)	
491.4 MHz	FX	N0N	0.007 W (ERP)	
491.4 MHz	FX	25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
496.3 MHz	FX	N0N	5 W (ERP)	
496.3 MHz	FX	N0N	0.007 W (ERP)	
496.3 MHz	FX	25K0F3D	5 W (ERP)	
500 MHz	FX	N0N	5 W (ERP)	
500 MHz	FX	N0N	0.007 W (ERP)	
500 MHz	FX	25K0F3D	5 W (ERP)	
508-608 MHz	FX	N0N 25K0F3D	5 W (ERP)	
621.7 MHz	FX	N0N	5 W (ERP)	
621.7 MHz	FX	N0N	0.007 W (ERP)	
621.7 MHz	FX	25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
626-632 MHz	FX	N0N	5 W (ERP)	
626-632 MHz	FX	N0N	0.007 W (ERP)	
626-632 MHz	FX	25K0F3D	5 W (ERP)	
634.125 MHz	FX	N0N	5 W (ERP)	
634.125 MHz	FX	N0N	0.007 W (ERP)	
634.125 MHz	FX	25K0F3D	5 W (ERP)	
646.825 MHz	FX	N0N	5 W (ERP)	
646.825 MHz	FX	N0N	0.007 W (ERP)	
646.825 MHz	FX	25K0F3D	5 W (ERP)	
659.75 MHz	FX	N0N	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
659.75 MHz	FX	N0N	5 W (ERP)	
659.75 MHz	FX	25K0F3D	5 W (ERP)	
662-668 MHz	FX	N0N	5 W (ERP)	
662-668 MHz	FX	N0N	0.007 W (ERP)	
662-668 MHz	FX	25K0F3D	5 W (ERP)	
672.95 MHz	FX	N0N	5 W (ERP)	
672.95 MHz	FX	N0N	0.007 W (ERP)	
672.95 MHz	FX	25K0F3D	5 W (ERP)	
686.4 MHz	FX	N0N	5 W (ERP)	
686.4 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
686.4 MHz	FX	25K0F3D	5 W (ERP)	
700.125 MHz	FX	N0N	5 W (ERP)	
700.125 MHz	FX	N0N	0.007 W (ERP)	
700.125 MHz	FX	25K0F3D	5 W (ERP)	
714.125 MHz	FX	N0N	5 W (ERP)	
714.125 MHz	FX	N0N	0.007 W (ERP)	
714.125 MHz	FX	25K0F3D	5 W (ERP)	
728.425 MHz	FX	N0N	5 W (ERP)	
728.425 MHz	FX	N0N	0.007 W (ERP)	
728.425 MHz	FX	25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
734-740 MHz	FX	N0N	5 W (ERP)	
734-740 MHz	FX	N0N	0.007 W (ERP)	
734-740 MHz	FX	25K0F3D	5 W (ERP)	
742.975 MHz	FX	N0N	5 W (ERP)	
742.975 MHz	FX	N0N	0.007 W (ERP)	
742.975 MHz	FX	25K0F3D	5 W (ERP)	
757.85 MHz	FX	N0N	5 W (ERP)	
757.85 MHz	FX	N0N	0.007 W (ERP)	
757.85 MHz	FX	25K0F3D	5 W (ERP)	
758-764 MHz	FX	N0N	0.007 W (ERP)	
758-764 MHz	FX	N0N	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-764 MHz	FX	25K0F3D	5 W (ERP)	
773 MHz	FX	N0N	5 W (ERP)	
773 MHz	FX	N0N	0.007 W (ERP)	
773 MHz	FX	25K0F3D	5 W (ERP)	
788.45 MHz	FX	N0N	5 W (ERP)	
788.45 MHz	FX	N0N	0.007 W (ERP)	
788.45 MHz	FX	25K0F3D	5 W (ERP)	
794-800 MHz	FX	N0N	5 W (ERP)	
794-800 MHz	FX	N0N	0.007 W (ERP)	
794-800 MHz	FX	25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
804.225 MHz	FX	N0N	5 W (ERP)	
804.225 MHz	FX	N0N	0.007 W (ERP)	
804.225 MHz	FX	25K0F3D	5 W (ERP)	
809-902 MHz	FX	N0N 25K0F3D	5 W (ERP)	
902-928 MHz	FX	N0N 25K0F3D	5 W (ERP)	
940.4-1200 MHz	FX	N0N	5 W (ERP)	
940.4-1200 MHz	FX	N0N	0.007 W (ERP)	
940.4-1200 MHz	FX	25K0F3D	5 W (ERP)	
1218.95 MHz	FX	N0N	5 W (ERP)	
1218.95 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1218.95 MHz	FX	25K0F3D	5 W (ERP)	
1243.325 MHz	FX	N0N	5 W (ERP)	
1243.325 MHz	FX	N0N	0.007 W (ERP)	
1243.325 MHz	FX	25K0F3D	5 W (ERP)	
1251-1400 MHz	FX	N0N 25K0F3D	5 W (ERP)	
1427-1660 MHz	FX	N0N 25K0F3D	5 W (ERP)	
1668.4-1755 MHz	FX	N0N 25K0F3D	5 W (ERP)	
1863.555 MHz	FX	N0N	5 W (ERP)	
1863.555 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1863.555 MHz	FX	25K0F3D	5 W (ERP)	
1890.945 MHz	FX	N0N	5 W (ERP)	
1890.945 MHz	FX	N0N	0.007 W (ERP)	
1890.945 MHz	FX	25K0F3D	5 W (ERP)	
1909.965 MHz	FX	N0N	5 W (ERP)	
1909.965 MHz	FX	N0N	0.007 W (ERP)	
1909.965 MHz	FX	25K0F3D	5 W (ERP)	
1910.025 MHz	FX	N0N	5 W (ERP)	
1910.025 MHz	FX	N0N	0.007 W (ERP)	
1910.025 MHz	FX	25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1918.724 MHz	FX	N0N	5 W (ERP)	
1918.724 MHz	FX	N0N	0.007 W (ERP)	
1918.724 MHz	FX	25K0F3D	5 W (ERP)	
1929.975 MHz	FX	N0N	5 W (ERP)	
1929.975 MHz	FX	N0N	0.007 W (ERP)	
1929.975 MHz	FX	25K0F3D	5 W (ERP)	
1946.925 MHz	FX	N0N	5 W (ERP)	
1946.925 MHz	FX	N0N	0.007 W (ERP)	
1946.925 MHz	FX	25K0F3D	5 W (ERP)	
1960.575 MHz	FX	N0N	0.007 W (ERP)	
1960.575 MHz	FX	N0N	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1960.575 MHz	FX	25K0F3D	5 W (ERP)	
1975.545 MHz	FX	N0N	5 W (ERP)	
1975.545 MHz	FX	N0N	0.007 W (ERP)	
1975.545 MHz	FX	25K0F3D	5 W (ERP)	
1990.025 MHz	FX	N0N	5 W (ERP)	
1990.025 MHz	FX	N0N	0.007 W (ERP)	
1990.025 MHz	FX	25K0F3D	5 W (ERP)	
1999.8 MHz	FX	N0N	5 W (ERP)	
1999.8 MHz	FX	N0N	0.007 W (ERP)	
1999.8 MHz	FX	25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2000 MHz	FX	N0N	5 W (ERP)	
2000 MHz	FX	N0N	0.007 W (ERP)	
2000 MHz	FX	25K0F3D	5 W (ERP)	
2100 MHz	FX	N0N	5 W (ERP)	
2100 MHz	FX	N0N	0.007 W (ERP)	
2100 MHz	FX	25K0F3D	5 W (ERP)	
2200-2310 MHz	FX	N0N 25K0F3D	5 W (ERP)	
2360-2450 MHz	FX	N0N 25K0F3D	5 W (ERP)	
2500 MHz	FX	N0N	5 W (ERP)	
2500 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2500 MHz	FX	25K0F3D	5 W (ERP)	
2533.6 MHz	FX	N0N	5 W (ERP)	
2533.6 MHz	FX	N0N	0.007 W (ERP)	
2533.6 MHz	FX	25K0F3D	5 W (ERP)	
2536.225 MHz	FX	N0N	5 W (ERP)	
2536.225 MHz	FX	N0N	0.007 W (ERP)	
2536.225 MHz	FX	25K0F3D	5 W (ERP)	
2586.95 MHz	FX	N0N	5 W (ERP)	
2586.95 MHz	FX	N0N	0.007 W (ERP)	
2586.95 MHz	FX	25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2609.6 MHz	FX	N0N	5 W (ERP)	
2609.6 MHz	FX	N0N	0.007 W (ERP)	
2609.6 MHz	FX	25K0F3D	5 W (ERP)	
2638.675 MHz	FX	N0N	5 W (ERP)	
2638.675 MHz	FX	N0N	0.007 W (ERP)	
2638.675 MHz	FX	25K0F3D	5 W (ERP)	
2655-2690 MHz	FX	N0N 25K0F3D	5 W (ERP)	
2745.275 MHz	FX	N0N	5 W (ERP)	
2745.275 MHz	FX	N0N	0.007 W (ERP)	
2745.275 MHz	FX	25K0F3D	5 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2768.6 MHz	FX	N0N	5 W (ERP)	
2768.6 MHz	FX	N0N	0.007 W (ERP)	
2768.6 MHz	FX	25K0F3D	5 W (ERP)	
2800.175 MHz	FX	N0N	0.007 W (ERP)	
2851.6 MHz	FX	N0N	0.007 W (ERP)	
2851.6 MHz	FX	N0N 25K0F3D	5 W (ERP)	
2856.2 MHz	FX	N0N	0.007 W (ERP)	
2856.2 MHz	FX	N0N 25K0F3D	5 W (ERP)	
2900-4200 MHz	FX	N0N 25K0F3D	5 W (ERP)	
15150-15350 MHz	FX	21M4G7D	50 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15150-15350 MHz	FX	64M0G7D	50 W (ERP)	

MOBILE: East Rindge, New Hampshire, within 32 km, centered around NL 42-44-15; WL 71-57-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14400-14830 MHz	MO	21M4G7D 64M0G7D	50 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) 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.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Richard C. Ball, available by wireless telephone at (603) 318-6913.
- (6) Maintain operation separation from grandfathered earth station as defined in Part 90 subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operating in the 3650-3700 MHz band.
- (7) Licensee must coordinate with the local SBE representative before operating in the 25.670-26.480 MHz, 54-72 MHz, 76-88 MHz, 152.855-154 MHz, 157.45-161.575 MHz, 162.0125-173.200 MHz, 174-216 MHz, 470-806 MHz, and 941-960 MHz bands
- (8) Operation in the band 2500-2600 MHz requires consent of affected existing and future Broadband Radio Service/Educational Broadband Service (BRS/EBS) and point-to-point microwave licensee(s) to avoid interference.
- (9) Licensee should get consent from existing and future Advance Wireless Services licensees in the 1915-1920 MHz and the 1995-2000 MHz bands.