

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

EXPERIMENTAL

(Nature of Service)

WE2XYG

(Call Sign)

XT MO

(Class of Station)

0484-EX-PL-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(i) of the Commission's Rules

Station Locations

- (1) MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around
NL 42-48-30; WL 71-29-15

Frequency Information

MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.5 MHz	MO	NON	0.061 W (ERP)	
2-5 MHz	MO	NON	5 W (ERP)	
2.9 MHz	MO	NON	0.1 W (ERP)	
3 MHz	MO	NON	0.1 W (ERP)	

This authorization effective January 06, 2010 and
will expire 3:00 A.M. EST May 31, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.4 MHz	MO	N0N	0.1 W (ERP)	
3.5 MHz	MO	N0N	0.1 W (ERP)	
4.7 MHz	MO	N0N	0.1 W (ERP)	
5-74.8 MHz	MO	N0N	5 W (ERP)	
5.6 MHz	MO	N0N	0.1 W (ERP)	
6.6 MHz	MO	N0N	0.1 W (ERP)	
11.4 MHz	MO	N0N	0.1 W (ERP)	
75.4-107.9 MHz	MO	N0N	5 W (ERP)	
109.375 MHz	MO	N0N	5 W (ERP)	
111.575 MHz	MO	N0N	5 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
112 MHz	MO	N0N	0.1 W (ERP)	
113.8 MHz	MO	N0N	0.1 W (ERP)	
113.825 MHz	MO	N0N	5 W (ERP)	
114.95 MHz	MO	N0N	5 W (ERP)	
116 MHz	MO	N0N	0.1 W (ERP)	
116.1 MHz	MO	N0N	5 W (ERP)	
117.275 MHz	MO	N0N	5 W (ERP)	
118 MHz	MO	N0N	0.1 W (ERP)	
119.625 MHz	MO	N0N	0.1 W (ERP)	
120 MHz	MO	N0N	0.1 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
120.825 MHz	MO	N0N	0.1 W (ERP)	
122.025 MHz	MO	N0N	0.1 W (ERP)	
123.25 MHz	MO	N0N	0.1 W (ERP)	
124 MHz	MO	N0N	0.1 W (ERP)	
124.475 MHz	MO	N0N	0.1 W (ERP)	
125.725 MHz	MO	N0N	0.1 W (ERP)	
126.975 MHz	MO	N0N	0.1 W (ERP)	
128 MHz	MO	N0N	0.1 W (ERP)	
129.55 MHz	MO	N0N	0.1 W (ERP)	
130 MHz	MO	N0N	0.1 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
130.825 MHz	MO	N0N	0.1 W (ERP)	
132 MHz	MO	N0N	0.1 W (ERP)	
133.475 MHz	MO	N0N	0.1 W (ERP)	
134 MHz	MO	N0N	0.1 W (ERP)	
134.8 MHz	MO	N0N	0.1 W (ERP)	
136 MHz	MO	N0N	0.1 W (ERP)	
136.15 MHz	MO	N0N	0.1 W (ERP)	
137.1-152.885 MHz	MO	N0N	5 W (ERP)	
153.4 MHz	MO	N0N	5 W (ERP)	
154-156.515 MHz	MO	N0N	5 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
156.535-156.79 MHz	MO	N0N	0.00316 W (ERP)	
156.81-161.625 MHz	MO	N0N	5 W (ERP)	
161.775-162 MHz	MO	N0N	0.00316 W (ERP)	
164-173.6 MHz	MO	N0N	5 W (ERP)	
174-228.6 MHz	MO	N0N	5 W (ERP)	
228.8-328.6 MHz	MO	N0N	5 W (ERP)	
330.05 MHz	MO	N0N	5 W (ERP)	
333.35 MHz	MO	N0N	5 W (ERP)	
335.4-454 MHz	MO	N0N	5 W (ERP)	
456-470 MHz	MO	N0N	5 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
472.225 MHz	MO	N0N	5 W (ERP)	
476.95 MHz	MO	N0N	5 W (ERP)	
481.725 MHz	MO	N0N	5 W (ERP)	
486.525 MHz	MO	N0N	5 W (ERP)	
491.4 MHz	MO	N0N	5 W (ERP)	
496.3 MHz	MO	N0N	5 W (ERP)	
500-608 MHz	MO	N0N	5 W (ERP)	
614-932 MHz	MO	N0N	5 W (ERP)	
933-959 MHz	MO	N0N	5 W (ERP)	
1018 MHz	MO	N0N	5 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Locations, Merrimack, NH, within 0.2 km, centered around NL 42-48-30; WL 71-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1215-1390 MHz	MO	NON	5 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) Restrictions still apply from previous FAA coordination for 0293-EX-PL-2007 as specified in the FAA/Arent Fox LLP correspondence dated February 7, 2008.
- (4) Operation is subject to prior coordination with local Society of Broadcast Engineers (SBE) in the following frequency bands: 450-454 MHz; 455-456 MHz; 472.225 MHz; 476.95 MHz; 481.725 MHz; 486.525 MHz; 491.4 MHz; 496.3 MHz; 500-932 MHz; 932-935 MHz; 1215-2700 MHz; 1.5 MHz; 25-27 MHz; 54-72 MHz; 75.4-107.9 MHz; 152.855-154 MHz; 156.81-161.625 MHz; 162.85 MHz; 164-173.6 MHz and 174-216 MHz.
- (5) Operation in the following frequencies requires pre-coordination with the FAA ESA Frequency Management Officer/Boston (Dave Harris): 109.375 MHz, 111.575 MHz, 113.825 MHz, 114.950 MHz, 116.100 MHz, 117.275 MHz, 119.625 MHz, 120.825 MHz, 122.025 MHz, 124.475 MHz, 125.725 MHz, 126.975 MHz, 133.475 MHz, 134.800 MHz, 136.150 MHz, 330.050 MHz and 333.350 MHz.
- (6) Operation is subject to prior coordination with ARINC for using the following frequencies: 129.550 MHz and 130.825 MHz.
- (7) The following frequencies are to be NOTCHED OUT +/- 12.5 KHz: 163.2375 MHz, 163.3625 MHz, 165.5375 MHz, 166.0125 MHz, 166.7125 MHz, 167.8625 MHz, 167.8875 MHz, 168.5250 MHz, 168.6625 MHz, 169.1875 MHz, 170.5875 MHz, 172.6875 MHz, 164.1250 MHz, 164.1500 MHz, 164.3750 MHz, 164.5750 MHz, 165.2875 MHz, 165.8750 MHz, 165.9250 MHz, 166.4625 MHz, 166.5375 MHz, 167.2125 MHz, 167.2375 MHz, 167.2625 MHz, 167.3625 MHz, 167.3875 MHz, 167.4375 MHz, 167.4875 MHz, 167.5375 MHz, 167.5625 MHz, 167.6375 MHz, 167.7125 MHz, 167.7625 MHz, 167.7875 MHz, 167.8250 MHz, 168.4250 MHz, 169.5750 MHz, 169.6250 MHz, 169.7250 MHz, 170.8750 MHz, 171.6250 MHz, 172.0750 MHz, 173.1500 MHz, 173.6875 MHz, 173.8875 MHz, 40.23 MHz, 41.97 MHz, 41.99 MHz, 45.86 MHz, 45.90 MHz, 46.65 MHz and 49.75 MHz.
- (8) The following frequencies are to be NOTCHED OUT +/- 3 KHz: 2332 kHz, 12140 kHz, 27065 kHz, 27185 kHz, 27575 kHz and 27585 kHz.
- (9) Operation is NOT allowed using the frequency band 406.1-420 MHz.
- (10) The frequency 345 MHz is to be NOTCHED OUT to protect Coast Guard operations in the area.

Special Conditions:

- (11) BAE acknowledge that the 462.95-463.175 MHz frequencies are being used for medical radio communications and shall avoid harmful interference to medical devices.
- (12) Restrictions still apply from previous FCC licenses: 0221-EX-ST-2005, 0060-EX-ST-2006, and 0168-EX-ST-2006.
- (13) No operation is allowed to use the frequency 162.85 MHz due to potential harmful interference to government operations.
- (14) Operation is subject to prior coordination with FAA Eastern JFK International Airport, New York, ATTN: Frequency Management Office, phone 718-712-8343.
- (15) Operation is NOT permitted on these frequency bands:
M00239.012500 - M00239.037500
M00242.987500 - M00243.012500
M00254.250000 - M00255.400000
M00260.887500 - M00260.912500
M00263.050000 - M00263.100000
M00269.287500 - M00269.312500
M00273.437500 - M00273.462500
M00277.387500 - M00277.412500
M00279.587500 - M00279.612500
M00284.737500 - M00284.762500
M00307.887500 - M00307.912500
M00608.000000 - M00614.000000
M00959.000000 - M01017.900000
M01018.100000 - M01214.900000
M01390.100000 - M02700.000000
- (16) ERP is NOT exceed 0.1W in the frequency band 118 -137 MHz with exceptions no vertical transmission +/- 50 kHz of M121.5 and no vertical transmissions +/- 25 kHz of M118.25, M121.8, M124.4, M125.05, M125.10, M125.825, M127.35, M133.2, M134.25, and M134.75.
- (17) The frequency band 118 MHz-137 MHz is used only in an emergency jeopardizing life, public safety, or important property under conditions calling for immediate communications where other means of communication do not exist or are temporarily disrupted or inadequate.
- (18) The band 118-137 MHz is authorized only for air/ground frequency assign in the Aeronautical Assignment and Military Assignment Group and is for "back-up" use only when regular channels are either temporarily disrupted or inadequate. Actual frequency will be listed in agency remarks; POC, George Moynihan (603) 885-5987 license restrictions.
- (19) Operation the frequency 330.05MHz, 335.35 MHz and the band 1215-1390 MHz is subject to prior coordination with FAA New England Regional Office: 12 New England Executive Park, Burlington, Massachusetts 01803, phone (617) 273-7177.
- (20) The designated point-of-contact to terminate transmissions if interference occurs is Brian Egan (603) 885-3173.