

BAE Information & Electronic Warfare Systems
P.O. Box 868
Nashua, NH 03061-0868
19 March 2001

Federal Communications Commission
Experimental Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5320

Gentlemen:

This is a request for a Special Temporary Authority (STA) to permit operation of an experimental high frequency radar facility within the next three months. Here are the 14 items of information required for an STA:

Name and Address of Applicant:

BAE Information and Electronic Warfare Systems
P.O. Box 868
Nashua, NH 03061-0868

Description of Need:

Demonstration of an experimental high frequency surface wave radar system. Verify system is operational prior to testing system at Dam Neck, Virginia in June, 2001.

Type of Operation:

Field-testing to determine the functionality of a high frequency surface wave radar system by tracking incoming and outgoing flights to and from Manchester airport (MHT).

Facility Usage:

Testing will be at the BAE SYSTEMS Litchfield, NH facility. Operation will likely be for several hours a day, several days a week over the duration of the tests.

Times and Dates of Operation:

Times: 8:00a.m. – 5:00 p.m., up to 5 days/week.
May 2001 – June 2001.

Class of Station and Radio Service:

Experimental contract developmental (XC).

Location of Transmitters:

Derry Road, Litchfield, NH (42.81° N. Lat, 71.43° W. Long.).

Number of Fixed Transmitters: 1.

Operating Frequencies: 15 - 25 MHz.

Output Power of Transmitters: Up to 10 KW (peak), 5 KW (average).

Proposed Type of Emission:

Radar operation is linear FM chirp, filtered to an 80 kHz bandwidth; 100 to 225 μ s pulse width, duty cycle is 10 to 45%.

Antenna:

12' x 4' x 4' tune loop antenna, omnidirectional radiation pattern, +5 dBi gain maximum, within 20 feet of ground.

Business Activity of Applicant:

BAE Information and Electronic Warfare Systems, with headquarters in Nashua, N.H., is an operating unit of BAE SYSTEMS North America. BAE Information and Electronic Warfare Systems is a major producer of aircraft self-protection systems and tactical surveillance and intelligence systems for all branches of the armed forces. Other major business areas include microwave, mission and space electronics; infrared imaging; and automated mission planning systems. Headquartered in Rockville, Md., BAE SYSTEMS North America is a global enterprise principally engaged in the research, design, development, manufacture and integration of advanced-technology systems, products and services. The Corporation's core businesses are Combat Systems, Information and Electronic Warfare Systems, Avionics and Navigation, Aeronautics Products, Systems Technical support, Information Systems, Communications and Data Links, Reconnaissance and Surveillance, and Space Electronics.

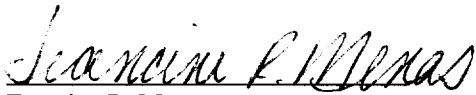
Certification:

No party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the Ant-Drug Abuse Act of 1988, U.S.C. 862.

We are enclosing a completed FCC 159 form with this. If there are any technical questions regarding this application, please contact the undersigned at 603-885-6447 (voice), 603-885-6457 (FAX), or email francine.r.menas@lmco.com.

Your earliest attention to this application is appreciated.

Sincerely,



Francine R. Menas
Principal System Engineer
Advanced Systems and Technology Division
BAE Information and Electronic Warfare Systems