

0558-EX-ST-2000

BAE Information & Electronic Warfare Systems
P.O. Box 868
Nashua, NH 03061-0868
November 28, 2000

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 radio / radar facility within the next eight months. Here are the 14 items of information required for a STA:

Name and Address of Applicant:

BAE Information and Electronic Warfare Systems
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Nashua, NH 03061-0868

Description of Need:

Demonstration of an experimental radio system to satisfy a quick reaction contract. Knowledge of contract award was not available until one month ago.

Type of Operation:

Field-testing to determine the effectiveness of a dual-use chirp radar or fm radio for personnel detection and reporting over short (<300 meter) ranges.

Facility Usage:

Testing will be at the BAE SYSTEMS Merrimack, 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: 7:00a.m. - 9:00 p.m., up to 7 days/week.
Dec. '00- June. '01.

Class of Station and Radio Service:

Experimental contract developmental (XC).

Location of Transmitters:

130 DW Highway, Merrimack, NH (42.84° N. Lat, 71.49° W. Long.).

Number of Fixed Transmitters: 4.

Operating Frequencies: 310-350 MHz.

Output Power of Transmitters: Less than 100 milliwatts (peak).

Proposed Type of Emission: Radar operation is linear FM over a 10 to 30 MHz band; 100 to 500 uS pulse, with pulse repetition rate of 1 to 100 Hz. Radio operation is a wideband FM, center frequency 318 MHz, and deviation of +/- 200 kHz.

Antenna:

Vertical dipole or microstrip patch, less than 10 feet above ground level, with gain less than 3dBi including feedline losses.

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.

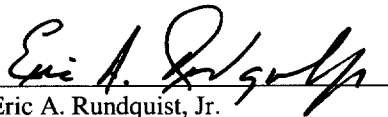
Certification:

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 603-885-8174 (voice), 603-885-1005 (FAX), or email eric.a.rundquist@lmco.com.

Your earliest attention to this application is appreciated.

Sincerely,



Eric A. Rundquist, Jr.
Senior Principal System Engineer
Advanced Systems and Technology Division
BAE Information and Electronic Warfare Systems