

PUBLIC INTEREST STATEMENT

1. **Introduction**

By the instant application, BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant a two year experimental license to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant Form 442.

The instant application seeks a two year license for the same facilities that were granted under Special Temporary Authority (“STA”) pursuant to File No. 0626-EX-ST-2005, and under the same terms and conditions.

2. **Purpose and Scope of the Operation**

BAE Systems Information & Electronic Warfare Systems (IEWS), a business unit of the Information and Electronic Systems Integration Sector (IESI) within BAE Systems Inc., will conduct the testing specified in this application. IEWS is a major producer of electronic warfare systems, protection systems, and tactical surveillance and intelligence systems for all branches of the armed forces. IEWS’ lines of business include Electronic Warfare/Electronic Protection, Electronic Warfare/Information Warfare, Integrated Defense Solutions, and Mission Electronics with products and services spanning the whole electromagnetic spectrum.

The testing at the Merrimack Antenna Test Range is a critical part of the manufacture and delivery of military systems provided to the Armed Forces in support of Homeland Security as well as war efforts. As a general matter, the purpose of the facilities for which consent is requested herein is to measure the performance of an antenna system.

This license seeks authority to implement internal research and development (IR&D) efforts for the specified Facilities, as well as to implement the following contract:

Contract No. – HR0011-05-C-0064
Agency – DARPA MTO
Contract POC – Dr. Reggie Brothers (703) 696-2373
rbrothers@darpa.mil

It is also noted that the instant application seeks Commission authority to operate the specified antennas on a fixed basis within a radius of operation around the centerpoint of: 42-48-30 N.Lat.; 071-29-15 W.Long. [NAD 83]. Specifically, BAE Systems is requesting authority to operate all of the specified transmitters within a 200 m (.2 km) radius from the centerpoint geographic coordinates identified in the STA Request (i.e., 42-48-30 N.Lat.; 071-29-15 W.Long. [NAD 83]).

3. Transmitting Equipment

The following information is provided with respect to the transmitting equipment to be involved in the experiment. It is noted that the transmit amplifier is non-experimental in nature:

Manufacturer	Model	Quantity
Minicircuits	CRL-700	8

4. Prevention of Interference

BAE Systems hereby advises the Commission that the tests to be conducted under the requested Commission authorization are to be conducted solely on the campus of BAE Systems' Merrimack, New Hampshire facilities. Such location will result in the separation of the test facilities from other existing transmit or receive facilities. BAE Systems' Tracy Johnson will act as a "stop buzzer" if any issues regarding interference arise during testing. His number for this purpose will be (603) 689-8630.