

**STA REQUEST
AND DESCRIPTION OF OPERATIONS**

1. Introduction

By the instant application (“STA Request”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant special temporary authority (“STA”) to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant STA Request. STA is requested for a period of six (6) months from the date of grant of this STA Request.

Please note that, as discussed with Commission staff, this application requests authority for virtually the same exact experimental facilities that were granted by the Commission to BAE Systems pursuant to File No. 0593-EX-ST-2005, for operations at Litchfield, NH. For internal business and operational reasons, the fixed facilities associated with this experiment are being relocated from the company’s Litchfield Antenna Test Range to the company’s Merrimack Antenna Test Range. Once the instant STA Request is granted by the Commission, the company will transfer the fixed facilities from the Litchfield Range to the Merrimack Range, and operation of the fixed facilities will commence from Merrimack at that point. It should be noted that the mobile (Air-Based) transmissions will continue to be operated from the same parameters specified under File No. 0593-EX-ST-2005, but for administrative purposes BAE Systems is re-licensing all of the facilities (fixed and mobile) pursuant to the instant STA Request.

2. Purpose 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 STA Request. 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 purposes of the facilities for which consent is requested herein are to determine the requirement for calibration of the arrays installed on the candidate platform, generate calibration parameters if required and verify the accuracy of the calibration parameters by conducting carefully controlled flight tests. BAE Systems notes that it is separately submitting to the Commission’s Security Office, under applicable classified submission procedures, the relevant program name, contract number and point of contact for the program. Additional details regarding the nature of the transmissions for which authority is requested are specified at Exhibits 3 and 4, as follows:

- Antenna Registration #1 of this STA Request specifies technical parameters for proposed ground-based transmissions to be initiated from BAE Systems’ Merrimack Antenna Test Range. These ground-based transmissions are comprised of:

“Ground-Based CW Transmissions”;
“Ground-Based FM Data Transmissions”; and
“Ground-Based Data-Link (Uplink) Transmissions”.

See Exhibit 3 for a more detailed explanation of these ground-based transmissions.

- Antenna Registration #2 of this STA Request specifies technical parameters for proposed air-based transmissions to be initiated from target aircraft (while the aircraft is within the FAA-approved Flight Operations Area) and directed to a ground-based receiver located at BAE Systems’ Merrimack Antenna Test Range. See Exhibit 4 for more details.

3. Why STA is in the Public Interest

STA is being requested in order to obtain processing as expeditiously as possible so that the commencement of operation of the proposed facilities can occur as soon as possible. As a leader in technological advancements, BAE Systems continually drives new research efforts in support of the war fighter. Each candidate antenna design is fabricated and tested using the antenna measurement system described in the application. Accordingly, evaluation of the performance of the antenna will be conducted in the near term before integrated into the system. As stated above, the testing at the Antenna Test Range Facilities 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, and BAE Systems is not in a position to delay the commencement of these tests. For the foregoing reasons, approval of this STA Request is in the public interest, convenience and necessity.

4. Prevention of Interference

BAE Systems’ Tracy Johnson will be personally conducting the test and will be available by wireless telephone at (603) 689-8630. Mr. Johnson will act as a “stop buzzer” if any issues regarding interference arise during testing.