

**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. In this case, a commencement date of June 1, 2006 is requested.

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 North America, 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 Litchfield 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 test the performance of a system designed to locate ground surveillance radars. The test will be conducted with the target radars (transmit elements) at a fixed location, and the sensor system (receive elements) moved to various predetermined locations at the Litchfield Antenna Test Range. The contract information pursuant to which this experiment will be conducted is as follows:

Customer Name:	USA CECOM RDEC I2WD
Customer Contact	Bek Osman, 732-427-5602 (bek.osman1@us.army.mil)
Contract Number	W15P7T-05-C-P224

Additional details regarding the nature of the transmissions for which authority is requested are specified at Exhibits 2, 3 and 4, as follows:

- Exhibit 2 contains information for the facilities identified at Antenna Registration #1 of this STA Request, which relate to a Ground Surveillance Radar (AN/PPS-15) to be used as one of the “target” radars, to transmit in the band 10.2-10.4 GHz.
- Exhibit 3 contains information for the facilities identified at Antenna Registration #2 of this STA Request, which relate to a Marine Radar (Furuno 1623) to be used as one of the “target” radars, to transmit in the band 9380-9440 MHz.

- Exhibit 4 contains information for the facilities identified at Antenna Registration #3 of this STA Request, which relate to a transmit system designed by BAE Systems (ESE1) that is comprised of an Agilent signal generator (E8267D) and HD Communications amplifier (HD18274) as its component parts.

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 system must be conducted in the near term in accordance with the requirements of the specified contract 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' Richard C. Ball will be personally conducting the test and will be available by wireless telephone at (603) 318-6913. Mr. Ball will act as a "stop buzzer" if any issues regarding interference arise during testing.