

**Description of Request**

By the instant request ("STA Request"), BAE SYSTEMS Information and Electronic Systems Integration Inc. ("BAE SYSTEMS") requests that the Commission grant to BAE SYSTEMS special temporary authority ("STA") to conduct very limited testing utilizing the facilities specified in the attached form.

***Due to the requirements of the subject government contract, and flight plans that have been coordinated with the military for this testing, it is critical that the instant STA Request be processed expeditiously so that BAE SYSTEMS receives grant of STA effective no later than June 6, 2005.***

BAE SYSTEMS manufactures and tests various antennas and communications systems for numerous classified customers. The Facilities for which BAE SYSTEMS seeks authority to operate pursuant to this STA Request are part of BAE SYSTEMS' performance of its obligations under a military contract, namely the Adaptive Joint C4ISR Node Advanced Concept Technology Demonstration ("AJCN"). The AJCN program is intended to integrate communications, communications signals intelligence and electronic attack information operations into a single system. Such system will be coordinated with state and local public safety entities, as well as homeland defense agencies. The testing of the 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.

The Commission has previously granted BAE SYSTEMS authority to test various facilities under the AJCN program at ground level, for development of the facilities in a lab environment (See File Nos. 0449-EX-ST-2004, 0484-EX-ST-2004, 0648-EX-ST-2004). The instant STA Request seeks authority to test the program's cables and antennas on board a Boeing 707 (i.e., the Paul Revere ("PR") aircraft platform) to ensure that the system is calibrated correctly for the PR platform.

As described below, the testing authority sought pursuant to this STA Request is very limited and scope:

- Due to the very specific requirements of the subject government contract, and flight plans that have been coordinated with the military for this testing, testing of the requested facilities is expected to occur ***only on June 6, 2005, between 10:00 am and 2:00 pm (ET).***
- A total of only two tests are intended to be conducted using the requested facilities.

- For each of the two tests to be conducted under the requested STA, the following procedures will apply:
  - A total of three data collections are required.
  - Data will be collected using a network analyzer as the transmitter and receiver.
  - The network analyzer will transmit +10 dBm in a sweep lasting less than 10 seconds from 27 MHz to 450 MHz from an omni directional test antenna.
  - The effective radiated power of the signals will be less than +13 dBm. This sweep will be repeated a total of three times.
  - The test will be completed in less than 30 minutes elapsed time.
  - The aircraft will take off from Hanscom Air Force Base in Massachusetts, and the area of operation of the aircraft during the testing will be off the coast of Maine, in an area defined by the following coordinates (NAD 83):
 

43° 25' 35" N.Lat 69°22'15" W.Long

Radius of 20 km
- The aircraft will not exceed a height of 23000 ft MSL.

The AJCN OTA number and point of contact (POC) for the relevant military contract is as follows:

OTA # MDA972-00-9-0009

| <b>Contracts</b>                                                                                                                                | <b>Technical</b>                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Mr. Charles Ade<br>CECOM Acquisition Center<br>AMSEL-AC-CC-RT-S<br>Building 1208, First Floor<br>Fort Monmouth, NJ 07703-5008<br>(732) 427-1334 | US Army CERDEC<br>ATTN: AMSRD-CER-ST-SP (Edward Kierman)<br>Myer Center, Bldg 2700<br>Fort Monmouth, NJ 07703<br>(732) 427-0148 |

For the foregoing reasons, approval of this STA Request is in the public interest, convenience and necessity.