

Exhibit 1

1. Introduction

By the instant application (“STA Request”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant, on an expedited basis, special temporary authority (“STA”) to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant STA Request.

2. Purpose of the Operation

BAE Systems manufactures and tests antennas as well as RF systems for DOD as well as other governmental customers. The testing specified in this Application will be conducted by BAE Systems Information and Electronic Systems Integration Inc., which is a major producer of electronic warfare systems, protection systems, and tactical surveillance and intelligence systems for all branches of the armed forces. This unit’s lines of business include Electronic Warfare/Electronic Protection, Electronic Warfare/Information Warfare, Integrated Defense Solutions, and Mission Electronics. The testing at the Merrimack Test 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.

In brief, the government contract with which this experiment is associated generally involves the development of technologies to deny enemy use of communications and radars throughout the battlespace. The networked system will be comprised of autonomous, ground-based monitors/jammers cooperatively linked to avoid disruption of friendly military and protected commercial radio communications and radars. The Program has requested that the facilities requested in this STA Request be used to implement the communications aspects of that contract.

Specifically, the experiment specified in this STA Request involves the development of a group of unattended ground sensors that can communicate with each other via radio in either the 902-928 MHz band or the 462.55-464 MHz band. In addition, these sensors can detect and identify communications networks in the 446.0 – 446.1 MHz frequency band. This application is to support the following DARPA-sponsored program:

Agency: DARPA

Contract Number: MDA972-01-9-0019

DARPA Program Manager: Preston Marshall; Tel: (703) 696-5273;

E-Mail: Preston.Marshall@DARPA.mil

3. Why expedited STA is in the Public Interest

STA is being requested so that the commencement of operation of the proposed facilities can occur as soon as possible, to permit field testing of the specified system. Outdoor testing is necessary to validate the system in order to demonstrate capabilities to DARPA.

This program has a contractual obligation to demonstrate capabilities Feb 19, 2007, requiring the ability to transmit no later than Nov 27, 2006 in order to characterize and validate system performance prior to customer demo. Accordingly, in light of the current timetable for processing of routine experimental licensing requests, it is apparent that without expediting processing of this STA Request it is unlikely that this critical customer demonstration will be conducted on a timely basis, thereby delaying ultimate delivery of the system to the detriment of the overall program and military personnel in the field.

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

4. Power

The output power and ERP for the transmissions are proposed to be 5 W, reported as a "Mean" value.

5. Other Issues

A. Antenna Data

BAE SYSTEMS has developed an omnidirectional experimental antenna for this system. The antenna gain for the 902-928 MHz range is 2.5 dBi. The antenna gain for the 446.0-446.1 and 462.55-464 MHz range is 6.0 dBi.

Manufacturer	Model	Quantity	Experimental
BAE Systems	N/A	1	Yes

B. Modulating Signal

Information regarding the Modulating Signal for the two different emission types specified in the STA Request is as follows:

100K0F1D Modulation:

Hop Rate: every 66.6 ms

38.4 kbps data rate

FSK (frequency shift keying), 20KHz deviation

100 KHz digital channel filter bandwidth

Programmable hopping on 200 KHz channel centers

25K0F3D Modulation:

25 KHz FSK

C. Prevention of Interference

BAE Systems hereby advises the Commission that the tests to be conducted under the requested Commission authorization are to be conducted near the center 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 be the available as a stop buzzer. His cell phone number is (603) 689-8630 if any issues arise.