

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 special temporary authority (“STA”) to permit BAE Systems to operate the facilities (the “Facilities”) specified in the instant STA Request.

IT IS NOTED THAT THE FACILITIES SPECIFIED HEREIN WERE PREVIOUSLY GRANTED BY THE COMMISSION UNDER STA UNDER FILE NO. 0168-EX-ST-2006, AT A POWER LEVEL OF .1W OUTPUT POWER/ERP. THE PURPOSE OF THIS APPLICATION IS TO REQUEST A SLIGHT INCREASE IN THE POWER FOR THESE TWO BANDS (2-5 MHz; 5-15 MHz) TO 5W OUTPUT POWER/ERP. NO OTHER CHANGES TO THE AUTHORIZED PARAMETERS IS SOUGHT.

2. Purpose of the Operation

BAE Systems manufactures and tests numerous antennas for numerous classified customers. The testing specified in this STA Request will be conducted by a business unit of BAE Systems, BAE Systems Information & Electronic Warfare Systems (IEWS), which 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.

The subject testing will involve passive, non-radiating and active, radiating testing related to BAE Systems’ characterization of antennas that are intended to be ultimately integrated into communications systems utilized by military and other customers. Because these experimental transmissions will occur during the pre-marketing phase of antenna development, there is currently no government contract information specifically associated with the requested frequency request. If and when the facilities are to be used to implement the requirements of a specific government contract, BAE Systems will notify the Commission, or seek any necessary approvals, at such time.

The testing at the Merrimack Antenna 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.

3. Why STA and Expedited Processing 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 these near term characterization tests to be performed in a timeframe that will permit timely marketing and sale to potential customers. 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. For the foregoing reasons, expedited review and approval of this STA Request is in the public interest, convenience and necessity.

4. Note Regarding Actual Frequency Requirements for Experiment

BAE Systems is mindful of the need to ensure that its frequency requests are as narrowly defined as possible to meet its project requirements while unnecessarily intruding upon bands that are allocated for government or other use. BAE Systems is also aware that the frequency bands specified in the instant request may overlap with certain government-allocated frequency assignments and that it is critical to avoid interference with government and other users on those frequencies.

To that end, BAE Systems confirms that its actual frequency requirements for the stated bands are as described below. A grant by the Commission consistent with the following requirements will be wholly acceptable to BAE Systems. In addition, BAE Systems notes that, for certain frequencies which cannot be granted due to stakeholder objections related to interference or otherwise, the grant of adjacent frequencies may in many cases be sufficient for this experiment due to the flexibility of the test equipment and procedures (i.e., where the frequency “2.5 MHz” is requested, a grant on the frequency “2.51 MHz” would be acceptable):

<u>Specified Band</u>	<u>Actual Frequency Requirements</u>
2-5 MHz	.1 MHz Steps (i.e., 2.0, 2.1, 2.2, 2.3 MHz)
5-15 MHz	.2 MHz Steps (i.e., 5.0, 5.2, 5.4, 5.6 MHz)

5. Other Issues

A. Antenna Data

For the convenience of the Commission, the chart below defines certain specifications relating to the monopole antenna that is intended to be used in the requested experiment:

Ant. #	Mfg.	Model Number	Frequency Range	Gain (Nom.)
1	Shakespeare	Style 120	.850 – 30 MHz	0 dBi
2	Shakespeare	Model 222	1.6 – 30 MHz	0 dBi

B. Additional Signal Amplification

Due to the low gain of the transmit antennas, an additional signal amplification is to be utilized.

Mfg.	Model Number	Frequency Range	Gain (Nom.)
HP	8347A	100 KHz – 3 GHz	20 dBm

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' Brian Egan will be personally conducting the test and will be available by wireless telephone at (603) 885-2449. Mr. Egan will act as a "stop buzzer" if any issues regarding interference arise during testing.