

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.

2. Purpose of the Operation

BAE Systems manufactures and tests numerous electronic systems for DoD customers. The testing specified in this STA Request will be conducted by a business unit of BAE Systems, BAE Systems Information & 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. The company’s lines of business include Electronic Warfare/Electronic Protection, Electronic Warfare/Information Warfare, Integrated Defense Solutions, and Mission Electronics.

This STA Request seeks authority for experiments to support internal research and development, the general purpose of which is to develop technologies to deny use of communications and radars throughout the battlespace. At this time, 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.

3. Why 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 near term characterization tests to be performed using the new modules obtained by BAE Systems. As operation of the facilities is anticipated to occur within a six month period, grant of an STA is appropriate. 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, approval of this STA Request is in the public interest, convenience and necessity.

4. Other Issues

A. Antenna Data

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

Ant. #	Mfg.	Model Number
1	Andrews	DB810KE-SY
2	Andrews	DB910CE-KL

B. Additional Signal Amplification

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

Mfg.	Model Number	Gain (Nom.)¹
Nokia	TRX-900	40 Watts
Nokia	TRX-1800	40 Watts

¹ It is noted that although BAE Systems has specified a maximum 40W gain for these transmitters, BAE Systems will ensure that the power level from the amplifiers is limited to 5W ERP at the antenna. Additionally, BAE Systems can attenuate the ERP to 1 Watt, in 1 Watt increments, if such attenuation is deemed necessary during the coordination process.

C. Frequency Requirements

Operation of the following frequency pairs is required for successful performance of this experiment. A grant consistent with these actual frequency requirements would be wholly acceptable to BAE Systems.

Channel #	U/L Frequency (Mhz)	Channel #	D/L Frequency (Mhz)
9612	1922.4	10562	2112.4
9637	1927.4	10587	2117.4
9662	1932.4	10612	2122.4
9687	1937.4	10637	2127.4
9712	1942.4	10662	2132.4
9737	1947.4	10687	2137.4
9762	1952.4	10712	2142.4
9787	1957.4	10737	2147.4
9812	1962.4	10762	2152.4
9837	1967.4	10787	2157.4
9862	1972.4	10812	2162.4
9887	1977.4	10837	2167.4

D. 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' John Cockerham, Test Engineer, will be available by telephone at (603) 885-7123. Mr. Cockerham will act as a "stop buzzer" if any issues regarding interference arise during testing.