

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 RF systems, from the transmit antenna performance to the entire system as a whole for DOD as well as other governmental customers. The testing specified in this STA Request 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 research development testing for which authority is requested in this STA Request will involve experimentation in data and video transmission. 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.

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 is in the Public Interest

STA is being requested because the proposed experiment is currently expected to last no more than six months. Outdoor testing is necessary to validate the system in order to demonstrate to potential system users within the DoD community, which includes DARPA. For the foregoing reasons, approval of this STA Request is in the public interest, convenience and necessity.

4. Performance and Modulation Information

The following system performance information is provided:

The Modulation associated with the requested facilities will involve the following, with a variable data rate of up to 45 Mbps:

QPSK, BPSK, QAM, FEC Rates $\frac{1}{2}$ to $\frac{7}{8}$.

5. Antennas – Directionality/Orientation

The antennas to be used in the experiment are Directional, and will be pointed either towards the ground or parallel to the ground. The antennas will possess the following orientation characteristics:

3dB BW E (Vertical)	3dB BW H (Horizontal)
15°	15°

6. 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 will be the available as a stop buzzer. His phone number is (603) 885-7123 if any issues arise.