

Request for Special Temporary Authority

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 BAE Systems for the facilities (the "Facilities") specified in the instant STA Request. STA is requested for a period of six (6) months from the date of grant of this STA Request.

1. **Purpose and Nature of the Operation**

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 to be operated at BAE Systems' facilities at Pope Technical Park in Hudson, New Hampshire as part of BAE Systems' development of its First InterComm™ system, website; www.FirstInterComm.com & email address; firstintercomm.eis@baesystems.com. First InterComm is a scalable "system of systems" by which public safety across disciplines and jurisdictions will be fully interoperable. It will provide our nation's First Responders with situational awareness through communications interoperability and integration of real time sensor data and decision aides from fusion of sensor and knowledge databases. The communications operability of emergency fire responders falls far short of the DHS position that responders must have the ability "to share information via voice and data signals on demand, in real time, when needed, and as authorized." The testing of the Facilities is a critical part of the manufacture and delivery of communications systems provided to our country's First Responders in support of their efforts to deal effectively with emergency situations.

The Facilities specified in this STA Request will provide the ability for First InterComm antennas to relay communications to and from mobile and portable units operating on a variety of frequencies, in support of homeland security goals. The nature of the First InterComm program requires that BAE Systems demonstrate substantial operational and technical flexibility by receiving communications on a variety of frequencies in a variety of frequency bands, and then relaying the same communications on a variety of different frequencies in different frequency bands. Tests will be performed at and around the BAE Systems facility with several mobile and portable devices communicating with the First InterComm system.

The Commission previously granted several a two year licenses to BAE Systems under File Numbers 0648-EX-ST-2004, 0484-EX-ST-2004, and 0449-EX-ST-2004 with respect to certain contractual requirements. The frequencies and associated facilities previously authorized under the license will be referred to as the "Prior Granted Facilities". This STA Request is being submitted in order to obtain authority to operate on certain portions of the Prior Granted Facilities for the Additional Experiment described above in connection with the internal research and development of the First InterComm™ system, which is not yet associated with the Prior Granted Facilities. Specific frequencies from the

Prior Granted Facilities have been identified as part of this STA having been previously authorized for BAE System's test range testing activities at the company's facilities in Hudson, NH and surrounding areas.

The First InterComm points of contact (POC) for any questions are identified below:

Contracts	Technical
Mr. Donald Morgan BAE Systems Electronics & Integrated Solutions P.O Box 868, PTP01-2P21 Nashua, NH 03061-0868 Facility: 65 River Road, Hudson, NH 03051 603-885-3548	Mr. William Delaney BAE Systems Electronics & Integrated Solutions P.O Box 868, PTP01-2881 Nashua, NH 03061-0868 Facility: 65 River Road, Hudson, NH 03051 603-885-5282

Except for a minor aspect,¹ upon grant of this STA Request, the operations under these portions of the Additional Experiment will be conducted pursuant to precisely the same technical and operational parameters specified in the Prior Granted Facilities. That means that - among other things - (i) no ungranted frequencies are required; (ii) the operation will be at the same power levels and emissions and will not result in the licensee exceeding the authorized maximum emissions envelope nor in any operations inconsistent with any terms of the outstanding authorization for the station involved; (iii) any antennas and transmitting equipment employed will be equivalent to those specified in the Prior Granted Facilities and any subsequent notifications, in that they will have the same height limits, directionality, gain and orientation/beamwidth as specified in the Prior Granted Facilities; (iv) any signal amplification equipment employed will be from the list of equipment specified in the Prior Granted Facilities; (v) transmissions will be limited to the same area of operation specified in the Prior Granted Facilities; and (vi) all of the Special Conditions issued by the Commission for the Prior Granted Facilities will apply to these additional operations.

2. Why STA is in the Public Interest

STA is being requested in order to permit BAE Systems to conduct development and demonstration testing of the Facilities in the near term, and the Application for Permanent Authority will be filed with the Commission requesting authority to operate the Facilities for the remainder of the product development process. Specifically, in order to fulfill its near term obligations to thoroughly test the First InterComm system, BAE Systems must conduct - prior to March 1, 2007 - critical demonstration and testing for its customers, as well as field tests that

¹ It is noted that for this Additional Experiment, no data signals will be used. Rather, the modulating signal will be characterized as either FM Voice or APCO 25, as appropriate. This minor issue should have no impact on the emissions levels or potential for interference associated with the system.

must be performed prior to the customer demonstrations and trials. The testing of the Facilities is a critical part of the manufacture and delivery of communications systems provided to our country's First Responders in support of their efforts to deal effectively with emergency situations. Accordingly, STA is necessary.

3. Stop Buzzer

BAE Systems' Bill Delaney will be available by wireless telephone at (603) 345-1864 and will act as a "stop buzzer" if any issues regarding interference arise during testing.

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