

PUBLIC INTEREST STATEMENT

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 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 with products and services spanning the whole electromagnetic spectrum.

The testing at the Merrimack Antenna Test Range 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. The internal research and development ("IR&D") activities of this experiment are critical to the investigation of RF waveforms, which will allow BAE Systems the ability be competitive on upcoming solicitations in the upcoming 2008 year. The sooner an STA is issued, the quicker that such investigations can commence.

3. **Note Regarding "Mean" Power Designation**

These FM data transmissions will involve the transmit source cycling through the bandwidth with a minimal transmit time and limited duty cycle. The maximum single frequency transmit capability of the source is 50 Watts with a 10% duty cycle. Because the operational mode will significantly reduce the output power, mean power will be a more accurate representation. The Output Power and ERP for the transmissions are proposed to be 5W, reported as a "Mean" value.

4. **Prevention of Interference**

BAE Systems' Tracy Johnson will be available by wireless telephone at (603) 689-8630. Mr. Johnson will act as a "stop buzzer" if any issues regarding interference arise during testing.