

DESCRIPTION OF REQUEST

1. Introduction

By the instant application, BAE Systems Information and Electronic Systems Integration Inc. ("BAE Systems") requests that the Commission grant a two year experimental license to permit BAE Systems to operate the facilities (the "Facilities") specified in the instant Form 442.

The instant application seeks a two year license for the same facilities that were granted under Special Temporary Authority ("STA") pursuant to File No. 0395-EX-ST-2005, and under the same terms and conditions.

2. Purpose of Operation

BAE Systems manufactures and tests various antennas for numerous classified customers. The Facilities for which BAE Systems seeks authority to operate pursuant to this application are to be operated at the Merrimack Antenna Test Range located in Merrimack, NH, as part of BAE Systems' performance of U.S. Air Force, U.S. Navy and U.S. Army military contracts (collectively, "Military Contracts"). 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. The testing involves passive, non-radiating and active; radiating testing.

3. Other Issues

As specified in the underlying application for STA, BAE Systems hereby confirms the following conditions of operation that will apply to the Facilities requested herein:

- Authority for only limited and sporadic operation of the Facilities is requested during the authorized timeframe, i.e., the cumulative period of operation in any given 24 hour period will be no more than 2 hours.
- Transmissions on the specified frequencies will occur in a "step" fashion, with a tolerance of +/- 10 kHz absolute frequency accuracy.
- Transmissions will dwell at a single particular frequency for 10 to 15 minutes, after which transmissions will discretely step to the next frequency authorized by the Commission.
- Transmissions will emanate from a stationary transmitter located on BAE Systems' secure campus, and will be pointed straight to the receive antenna with a 0° horizon angle. Such transmissions do not point towards any adjacent congested population.

- 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.
- There will be no intentional modulation. The signals are to be considered pure Continuous Wave (CW). The only possible unintentional modulation would be the residual FM inherent from the synthesizer's phase noise. Hewlett Packard specifies the phase noise to be < 86 dBc at 10 kHz.

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