

Nature of STA Request

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.

Purpose of the Operation/Why STA Is Necessary

BAE SYSTEMS manufactures and tests various antennas for numerous classified customers. The Facilities for which BAE SYSTEMS seeks authority to operate pursuant to this STA Request 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. The security guidelines applicable to the Military Contracts do not permit BAE SYSTEMS to reveal the contract number or the point of contact (POC) for the customer.

It is noted that the Facilities requested herein are requested as a supplement to the facilities previously issued to BAE SYSTEMS pursuant to File No. 0693-EX-ST-2004. Although preliminary experiments have been performed pursuant to that prior grant, the higher resolution of frequencies sought in the instant STA Request is intended to provide an enhanced engineering evaluation of the subject system. In order to timely complete this additional engineering analysis, grant of STA is requested by July 22, 2005. In light of the fact that – other than the frequencies identified in the STA Request – all of the technical parameters in the STA Request are the same as previously granted in File No. 0693-EX-ST-2004, and the relevance of this testing Homeland Security as well as war efforts, grant of STA in this case is consistent with the public interest, convenience and necessity.

Additional Notes Regarding This Request

Should any of the specifically requested frequencies not be available, BAE SYTEMS would appreciate working with the Commission to identify acceptable adjacent frequencies that satisfy program requirements before the processing of this STA Request is completed.

As agreed to by BAE SYSTEMS with respect to the prior grant under File No. 0693-EX-ST-2004, BAE SYSTEMS hereby sets forth 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) 566-4879. 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, expedited review and approval of this STA Request is in the public interest, convenience and necessity.