

PUBLIC INTEREST STATEMENT

1. Introduction

By the instant request (“Application”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant to BAE Systems Special Temporary Authority (“STA”) to operate the facilities (the “Facilities”) specified in the instant STA Request. A Start Date of March 4, 2011 is respectfully requested.

2. Purpose and Nature of the Operation

BAE Systems manufactures and tests RF systems as well as antennas 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 specified in the instant Application is a critical part of the manufacture and delivery of systems provided to the military in support of war efforts. Specifically, the purpose of this experiment is to come up with a more cost efficient and more robust system for the Army than the current Ground Mobile Radio. The fixed and mobile operations will allow BAE Systems to test in an outdoor environment to understand how this technology might work in a real world scenario for the soldiers.

The STA Request seeks authority for both ground-based temporary fixed operations within 1 km of the centerpoint 40-54-45 N.Lat.; 074-14-2 W.Long., and ground-based mobile operations within 8 km of the centerpoint 40-54-45 N.Lat.; 074-14-2 W.Long.

A. Army Approval of Requested Frequencies

BAE Systems has obtained the Army's approval of the requested frequencies, at the specified bandwidth and power levels, as demonstrated in the following messages:

-----Original Message-----

From: Poppenhager, Lori A Ms CIV USA CIO/G-6 [mailto:Lori.Poppenhager@US.Army.Mil]
Sent: Tuesday, February 15, 2011 10:55 AM
To: Mathew, Manoj (US SSA)
Cc: Scrim, Alan CIV USA AMC; Brittain, Keith W. (US SSA); Sputz, Sharon K. (US SSA); Rummel, Jeffrey; Whittington, William R CIV USAF AFSMO; Temkin, Richard H. (US SSA); Poli, Joseph (US SSA); Pontius, Dru L CIV NMSC; Baker, Leigh M (US SSA)
Subject: RE: [faslist] 0045-EX-ST-2011 / COB 9 February 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Mathew,

Thank you for your efforts to coordinate an effective solution.

V/r,
Lori A. Poppenhager
CIO G6, AONS
Army FAS Representative
PH: 703-325-8218 DSN: 221
FAX: 703-325-8235
SIPRNET Email: lori.poppenhager@disa.smil.mil

-----Original Message-----

From: Mathew, Manoj (US SSA) [mailto:manoj.mathew@baesystems.com]
Sent: Tuesday, February 15, 2011 10:51 AM
To: Poppenhager, Lori A Ms CIV USA CIO/G-6
Cc: Scrim, Alan CIV USA AMC; Brittain, Keith W. (US SSA); Sputz, Sharon K. (US SSA); Rummel, Jeffrey; Whittington, William R CIV USAF AFSMO; Temkin, Richard H. (US SSA); Poli, Joseph (US SSA); Pontius, Dru L CIV NMSC; Baker, Leigh M (US SSA)
Subject: RE: [faslist] 0045-EX-ST-2011 / COB 9 February 2011 (UNCLASSIFIED)

Lori.

We will only be using the two frequencies approved by the DOD folks which is 287MHz at 1.2MHz bw and 425MHz at 3.0MHz bw, both at 50W ERP. We will be withdrawing the original STA and apply for a new one.

Thanks
Manoj

B. Contract

The test is in support of the following Cooperative Research and Development Agreement:

Customer/
Agency: U.S. Army Research, Development, and Engineering Command
Communications-Electronics Research Development and Engineering
Number: Army Control Number is 0401-A-C843
POC: Alan J. Scrim
Spectrum Analysis & Frequency Management Branch Antennas and
Spectrum Analysis PD Space and Terrestrial Communication
Directorate AMSRD-CER-ST-AS-FM Fort Monmouth, NJ 07703
732-427-6346

3. Transmitting Equipment

Manufacturer	Model	Quantity	Experimental?
BAE Systems	N/A – Developmental Radio	5	YES
BAE Systems	N/A – Developmental Amplifier	5	YES
BAE Systems	N/A – Developmental Omni Antenna	5	YES

4. Mitigation of Interference/Stop Buzzer.

A. Mitigation of Interference

BAE Systems understands that FAA (or other stakeholders) may require certain limited azimuth and/or elevation blanking in order to ensure that the proposed Facilities do not pose a threat of interference to adjacent emitters. Accordingly, this is to confirm that the subject radar system does have such blanking capabilities and that BAE Systems stands ready to work with FAA to identify any reasonably necessary azimuth and/or elevation restrictions for the system.

B. Stop Buzzer

BAE Systems advises that Mr. Manoj Mathew (Principal Engineer) will be available by wireless telephone at (862) 228-4255 as a “stop buzzer” if any issues regarding interference arise during testing.

For the foregoing reasons, BAE Systems respectfully submits that approval of this STA Request is in the public interest, convenience and necessity.