

PUBLIC INTEREST STATEMENT

1. Introduction

By the instant request (“STA Request”), BAE Systems Information and Electronic Systems Integration Inc. (“BAE Systems”) requests that the Commission grant to GDATP Special Temporary Authority (“STA”) to operate the facilities (the “Facilities”) specified in the instant STA Request. A Start Date of October 19, 2009 is respectfully requested.

2. Purpose and Nature 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 specified in the instant STA Request 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. Specifically, the radar system for which an experimental license is sought is part of research project designed to improve the overall engagement productivity of the warfighter against today’s threats. The heart of the system is the Multi-Sensor Fusion Testbed, which comprises electro-optical, infrared, the subject radar, and an unattended ground sensor system. Data collection experiments with this system will support the development of novel data fusion and signal processing algorithms that address remote sensing of targets and threat tracking in cluttered environments. The diversity of sensors, and the ability to fuse the information from them, will provide more efficiency and robust operation than is possible with a single sensor, thus better protecting the war-fighter when most vulnerable. The FMCW radar system will have an operational range of approximately two kilometers, and will possess multiple operating modes. The funding agency is the Technical Support Working Group (TSWG), the National interagency research and development program for combating terrorism requirements at home and abroad.

The prime contractor is Camgian Microsystems:
David Lamb, Program Manager
Camgian
2500 Maitland Center Parkway, Suite 203
Maitland, FL 32751

The US Government sponsor is the Technical Support Working Group (TSWG):
David Herrington, Program Manager
TSWG
210 12th Street South, Site 300
Arlington, VA 22202

It is expected that other Department of Defense programs will benefit from this research. In this regard, in addition to supporting the above program activities, authority is requested to support internal research and development (“IR&D”) activities.

The program expected start date noted previously is necessary due to the long lead times of the RF components of the radar system. The proof of concept system will enable BAE Systems to guide the final development of the system in a timely fashion by expedition of this grant.

3. Directionality of Antennas

Antenna	
For Merrimack, NH	90° True through 229° True

4. Stop Buzzer.

BAE Systems hereby advises that Mr. Timothy Moore, Project Manager, will be available by wireless telephone at (781) 626-2824 and will act as a “stop buzzer” if any issues regarding interference arise during testing.