

**STA REQUEST
AND DESCRIPTION OF OPERATIONS**

1. Introduction

By the instant application ("STA Request"), BAE Systems Information and Electronic Systems Integration Inc. ("BAE Systems") requests that the Commission grant – on an expedited basis - special temporary authority ("STA") to permit BAE Systems to operate the facilities (the "Facilities") specified in the instant STA Request at BAE Systems' Greenlawn, NY campus location. STA is requested for a period of six (6) months, with a commencement date of March 7, 2007.

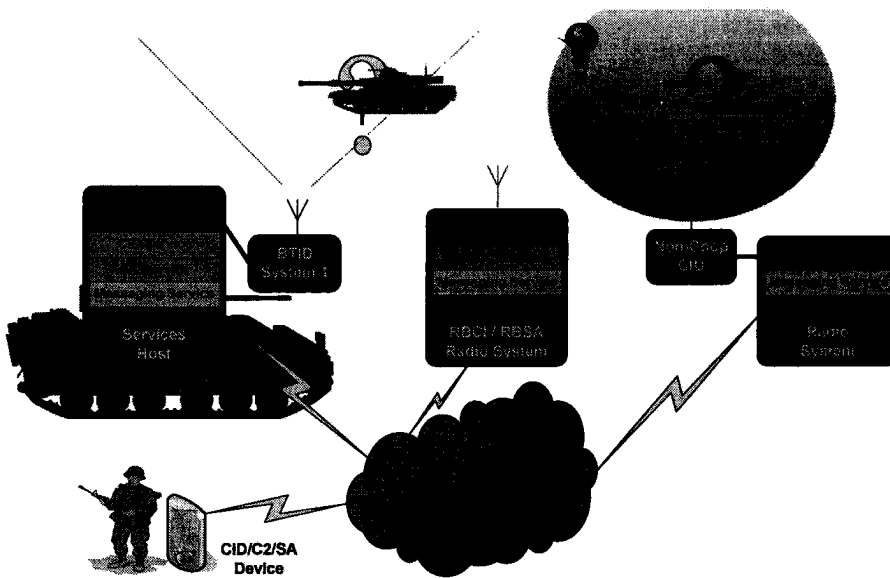
2. Purpose and Nature of the Operation

BAE Systems Networked Enabled Solutions (NES), a business unit within the Electronics and Integrated Solutions operating group within BAE Systems Inc., will conduct the testing specified in this STA Request. NES is a leader in developing, testing and building technical systems for the U.S. Department of Defense and the United States' allies in avionics, navigation, and military communications. NES' lines of business include C3I systems and communication systems integration, guidance and navigation, electronic identification, and reconnaissance systems.

The requested testing at BAE Systems' Greenlawn campus will support the internal development of a dismounted soldier CID system that enables commanders to identify, and possibly locate, friendly soldiers in the battlespace. The Combat ID services is a self contained application that will enable the dismounted soldier to further help him in Situation Awareness information and last second fire decisions in near real time . The purpose of the Combat ID demonstration test program is to investigate the range of various Combat ID sensors that will play a role in various combat situations. Some of the variables include terrain, location, and soldier orientation and positions in the battlespace. The transmitting equipment to be utilized for this experiment will be on loan from the US Military. To summarize:

- Dismounted soldiers provided CID capability via existing C2/SA device with no impact to SWaP infrastructures.
- Network services find, task, manage off-board net-enabled CID sensors when soldier selects CID function
- Near real-time SA from CID sensors can be integrated with FBCB2 SA to provide enhanced tactical picture including more complete low level blue picture

Diagram Summary:



3. Expedited Grant Required for Operation at BAE Systems' Greenlawn, NY Campus In Connection With Near-Term Demos

Initial Near-Term Testing for March 7-9, 2007 Institute of Land Warfare Demonstration

Between March 7-9, 2007, BAE Systems requires authority to operate the requested facilities on a very limited basis to conduct a fielded demonstration of the Combat ID technology as part of a symposium sponsored by the Association of the United States Army's Institute of Land Warfare. See attached materials describing the Objective and Scope of the symposium.

Subsequent Near-Term Testing Between April 15-May 4, 2007 for Fort Knox Demonstration

Between April 15-May 4, 2007, BAE Systems requires authority to operate the requested facilities on a very limited basis to conduct a contract demonstration of this technology in connection with the Armor Warfighting Conference sponsored by the United States Army Armor Center and Fort Knox. Although the conference itself will take place between April 29-May 4, the ability to transmit well-prior to this demonstration (i.e., by April 15, 2007) is essential for the calibration and preparation of the experiment. See attached materials describing the Objective and Scope of the symposium.

Such near term tests are supported by the US Army's Army Research, Development and Engineering Command, CERDEC, and FCC action on this STA Request has been specifically requested by Joseph Oagaro, RDECOM CERDEC, I2WD. A copy of Mr. Oagaro's e-mail is attached hereto.

Remaining 6 month Tests:

After the completion of the above-described demonstrations, the remainder of the six month STA period is required for completion of the relevant tests of this technology. BAE Systems anticipates that

such tests are required for the remaining of the six month STA period. Accordingly, grant of STA in this case is appropriate.

Contract Information:

The contract information relevant to this experiment is as follows:

Contract number: W15P7T-06-C-P420

Contract Issued: COMMANDER US ARMY CECOM, ACQ CENTER
AMSEL-ACCC-RTZE
CARMEL COSTA
FORT MONMOUTH, NJ 07703-5008

Tech. POC: Manuel J. Bobbio
U.S. Army Communications-Electronics RD&E Center
Intelligence & Information Warfare Directorate
Fort Monmouth NJ 07703
Tel: (732) 532-4758
Fax: (732) 532-4689

4. Transmitting Equipment and Modulation Information

The following information is provided with respect to the transmitting equipment to be involved in the experiment.

Manufacturer	Model	Quantity	Experimental?
ITT A/O Division	ITT RT-1523C/D/E(C)/U	6	YES

Spread Spectrum:

Yes

5. Antennas – Directionality/Orientation

The Antennas to be used in the experiment are OmniDirectional.

Orientation of Directional Antenna:

Manufacturer	Model Number	Peak Power	3dB BW E (Vertical)	3dB BW H (Horizontal)
General Dynamics	AS-3900/VRC	Output – 5 W ERP – 12.14 W	60°	360°
ITT A/O DIV	AS-3684/VRC	Output – 5 W ERP – 12.14	60°	360°
ITT A/O DIV	AS-3685/VRC	Output – 5 W ERP – 6.09 W	60°	360°

6. Why Expedited STA is in the Public Interest

Expedited grant of STA is being requested in order to obtain processing as expeditiously as possible to permit timely completion of the following near term tests:

- Initial Near-Term Testing for March 7-9, 2007 Demonstration
- Subsequent Near-Term Testing between April 15-May 4, 2007

Expedited grant in time for these near-term experiments will have no negative impact on the public or co-channel licensees. Specifically:

- BAE Systems has already been granted the requested frequencies at the same geographic coordinates pursuant to File No. 0653-EX-ST-2005, for the same Combat ID program. See attached scan of the prior granted frequencies under File No. 0653-EX-ST-2005. An application for a two year experimental license for those same facilities is pending under File No. 0302-EX-PL-2006. Grant of the instant STA Request, at slightly higher power levels, should have no impact whatsoever on the surrounding environment and operations on these frequencies.
- As explained above, the US Army (RDECOM CERDEC) has specifically confirmed its interest and support for these anticipated tests. A copy of the e-mail from Joseph Oagaro, RDECOM CERDEC, I2WD, is attached hereto.
- With respect to the near-term tests scheduled for the March 7-9, 2007 Demonstration, the time and scope of the operation of the requested facilities will be extremely limited. Specifically, operation for this demonstration will be limited to between 10am-4pm (ET) between March 7-9, 2007. Transmission will be intermittent and not continuous during these limited hours of operation, thereby further reducing any potential interference.
- With respect to the subsequent near-term testing between April 15-May 4, 2007 for Fort Knox Demonstration, the demonstration will be running between 10:00am – 16:30 hours on an intermittent basis. What this means is that the demo will operate when the US Military wants to perform the operational scenario tasks; the transmitting systems

will only operate when the demonstration is completed and will be power off around 16:30 hours each and every day.

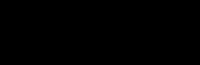
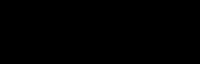
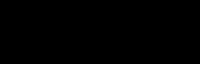
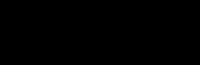
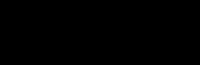
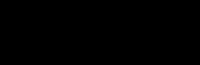
- The development of service oriented architectures (SOA) software technology and Tactical IP networks such as these allow for intelligent CID services operating on behalf of the dismounted soldier to running on applications servers in the network, not in the soldier or his C2/SA device. SOA technology allows these CID services to find (discover), task, and manage the sensors in a fully distributed environment thus shielding the user from these details.

7. Stop Buzzer

BAE Systems hereby advises that Ronnie Milione will be available by wireless telephone at 917-539-2234 and will act as a “stop buzzer” if any issues regarding interference arise during testing.

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

**EXCERPT FROM MATERIALS DESCRIBING MARCH 7-9, 2007 SYMPOSIUM
SPONSORED BY THE ASSOCIATION OF THE UNITED STATES ARMY'S
INSTITUTE OF LAND WARFARE**



A Professional Development Forum



At War & Transforming

In An Era of Unpredictability

7-9 March

2007

Greater Fort Lauderdale/Broward County Convention Center
Fort Lauderdale, Florida

For more information, visit www.ame-ilw.org

ASSOCIATION OF THE UNITED STATES ARMY'S
INSTITUTE OF LAND WARFARE PRESENTS THE
WINTER SYMPOSIUM AND EXHIBITION
A Professional Development Forum

7-9 March 2007

OBJECTIVE AND SCOPE

The Association of the United States Army's Institute of Land Warfare (ILW) presents a symposium entitled "At War & Transforming In An Era of Unpredictability." A central focus of the symposium is the Army's progression towards transforming while conducting combat operations. Special emphasis will be devoted to the indispensable role that our industry partners provide to the United States Army. Guest presentations and panel discussions will provide a myriad of information about the direction and progress of balancing our resources, equipment, personnel, doctrine and training to provide the essential protective umbrella that our nation deserves both now and in the future.

The Army has made a substantial investment of time and resources to focus on how best to conduct business, accomplish the mission of defending the citizens of the United States, and fulfilling our international commitments. The presentations at the AUSA's ILW Winter Symposium will highlight the Herculean efforts that the United States Army Training and Doctrine Command, Army Materiel Command, and other Army organizations have made towards transforming the Army while conducting "the fight" in current operations; all while keeping an eye on the future.

The future modular force will be balanced, committed, trained and technologically superior to any threat in the world. Top Army, DoD and Industry leaders will provide the dialog and information regarding the progress of our efforts to modernize the force and more importantly, win on the battlefield whether conventionally or eliminating terrorist threats around the world.

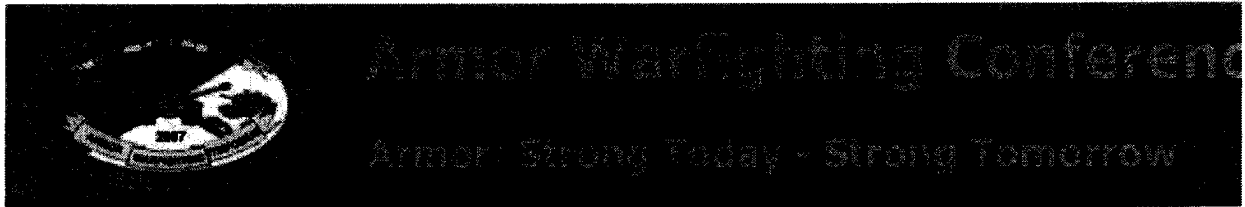
The key objective of AUSA's ILW Winter Symposium will be to provide an open forum for attendees to interact and participate in discussions about the Army modernization efforts and the immediate needs of our soldiers in harms way. Participants will be available for challenging questions from the audience.

Our agenda includes the top military leadership from the Active Army components, civilian executives of the Department of Army/Defense, Joint Force Commanders, and influential captains of industry.

For DoD Personnel: "The Department of Defense finds this event meets the minimum regulatory standards for attendance by DoD employees. This finding does not constitute a blanket approval or endorsement for attendance. Individual DoD Component commands or organizations are responsible for approving attendance of its DoD employees based on mission requirements and DoD regulations."



**EXCERPT FROM MATERIALS DESCRIBING APRIL 29-MAY 3, 2007 ARMOR
WARFIGHTING CONFERENCE SPONSORED BY THE UNITED STATES ARMY
ARMOR CENTER AND FORT KNOX**



Ladies and Gentlemen:

I am pleased to announce the United States Army Armor Center and Fort Knox will host the Armor Warfighting Conference from April 29 - May 3, 2007. The theme for our conference is "Armor: Strong Today – Strong Tomorrow."

In keeping with that theme, we have a dynamic and varied agenda planned for the conference. In addition to the normal vehicle and product displays, each day's agenda will include a mixture of subject matter expert (SME) briefings, focused discussion panels, and work-product panels. I have invited several of the Army's top leaders to speak for the SME briefings, so I expect we will all get a great update on what the Army is doing around the world, as well as where the Army is going.

The heart of the conference, however, will be the focused discussion panels and the work-product panels. We received great feedback on last year's focused discussion panel, but this year we have decided to improve the structure of the panel. We will be hosting work-product panels that not only discuss key issues, but also provide detailed, documented feedback for future initiatives. Some of these panels will be focused on the Heavy Brigade Combat Team formation and structure, as well as a review of the current status of Armor Core Competencies in full spectrum operations. Some of the topics for the discussion panels will include counterinsurgency operations and the new field manual (FM 3-24), master gunner training and issues, and initial entry training.

I am asking you, the Armor leaders throughout the force, to send your Soldiers in the ranks of staff sergeant to lieutenant colonel to participate as panel members. I would like to see as many of our battalion and brigade commanders and command sergeants major attend as possible. You leaders are in a unique position to carry back what you learn at the conference to the Soldiers in your units. I understand everyone is busy with many competing priorities. However, those who attend the Armor Warfighting Conference will have an invaluable opportunity to get an update of the current status and future direction of the Armor and Cavalry force. I highly encourage all of you to select a team of Armor Soldiers from your organization for attendance at the Armor Warfighting Conference. The information they gain will more than offset their travel costs and time away from their unit.

I also want to make sure that everyone is aware of the opportunity to nominate a deserving individual for this year's Frederick M. Franks Award.

Each year the Armor Center presents this award to an active duty or reserve officer, noncommissioned officer, or Department of the Army civilian who has demonstrated a long-time contribution to war fighting capabilities of the US Army.

In keeping with the theme "Armor: Strong Today – Strong Tomorrow," this year we will give special consideration to the nominees' contributions to the transformation of our mounted force to fight and win in full spectrum operations. This award is a great chance to recognize someone who has worked hard to make our branch and Army better. I ask everyone to consider who in your organization might be a good nominee. Details for submission of the Frederick M. Franks Award, as well as details on all aspects of the Armor Warfighting Conference, are available on the conference website at <http://www.knox.army.mil/armorconf/>.

I want to thank everyone for the superior work you all are doing for our Army and Nation. I highly encourage everyone to provide attendees for this year's conference. It will only be as good as the Soldiers you send for attendance. I look forward to seeing everyone at Fort Knox this spring.

FORGE THE THUNDERBOLT !

Robert M. Williams
Major General
Chief of Armor

[Armor Conference Home](http://www.knox.army.mil/armorConf/welcome.htm)

E-MAIL FROM JOSEPH OAGARO, RDECOM CERDEC
DEMONSTRATING SUPPORT FOR THE REQUESTED NEAR-TERM TESTS

Rummel, Jeffrey

From: Oagaro, Joseph RDECOM CERDEC I2WD [Joseph.Oagaro@us.army.mil]
Sent: Wednesday, February 07, 2007 11:53 AM
To: Rummel, Jeffrey
Cc: Ronnie.Milione@baesystems.com
Subject: FCC STA

Mr. Rummel

In support of a government contract fielded demonstration, BAE Systems will require FCC Special Temporary Authorization ASAP to operate and radiate on the Greenlawn Campus. Please contact me with any questions or concerns.

Regards,

Joseph Oagaro
RDECOM CERDEC I2WD
Combat Identification
AMSRD-CER-IW-CI
Phone: (732)-532-4030
Fax: (732)-532-4689
Email: Joseph.Oagaro@mi.army.mil

2/13/2007

**PRINTOUT OF PRIOR GRANT TO BAE SYSTEMS
FOR FILE NO. 0653-EX-ST-2005 AT GREENLAWN, NY FOR SAME FREQUENCIES**

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL
(Nature of Service)

XD FX
(Class of Station)

WC9XJG
(Call Sign)

0653-EX-ST-2005
(File Number)

NAME BAE Systems Information and Electronic Systems Integration Inc.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:
Please See Exhibit 1

Station Locations

(1) Greenlawn (SUFFOLK), NY - NL 40-52-00; WL 73-22-10

Frequency Information

Greenlawn (SUFFOLK), NY - NL 40-52-00; WL 73-22-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.8 MHz	FX	25K0Q1X	0.01 W (ERP)	
75.2-88 MHz	FX	25K0Q1X	0.01 W (ERP)	

Special Conditions:

(1) Licensee shall exclude operations between 34.82-34.84 MHz.

This authorization effective January 01, 2006 and
will expire 3:00 A.M. EST July 01, 2006

**FEDERAL
COMMUNICATIONS
COMMISSION**