



***Naval Research
Science and Technology Action Team
(NR STAT)***

STAT Briefing

2002



MISSION OF NR STAT

To support the Fleet/Force, via Naval Research Science Advisors and others,* by brokering S&T knowledge -- provided as a result of direct outreach to the Naval Research Enterprise, national research laboratories, as well as commercial organizations.

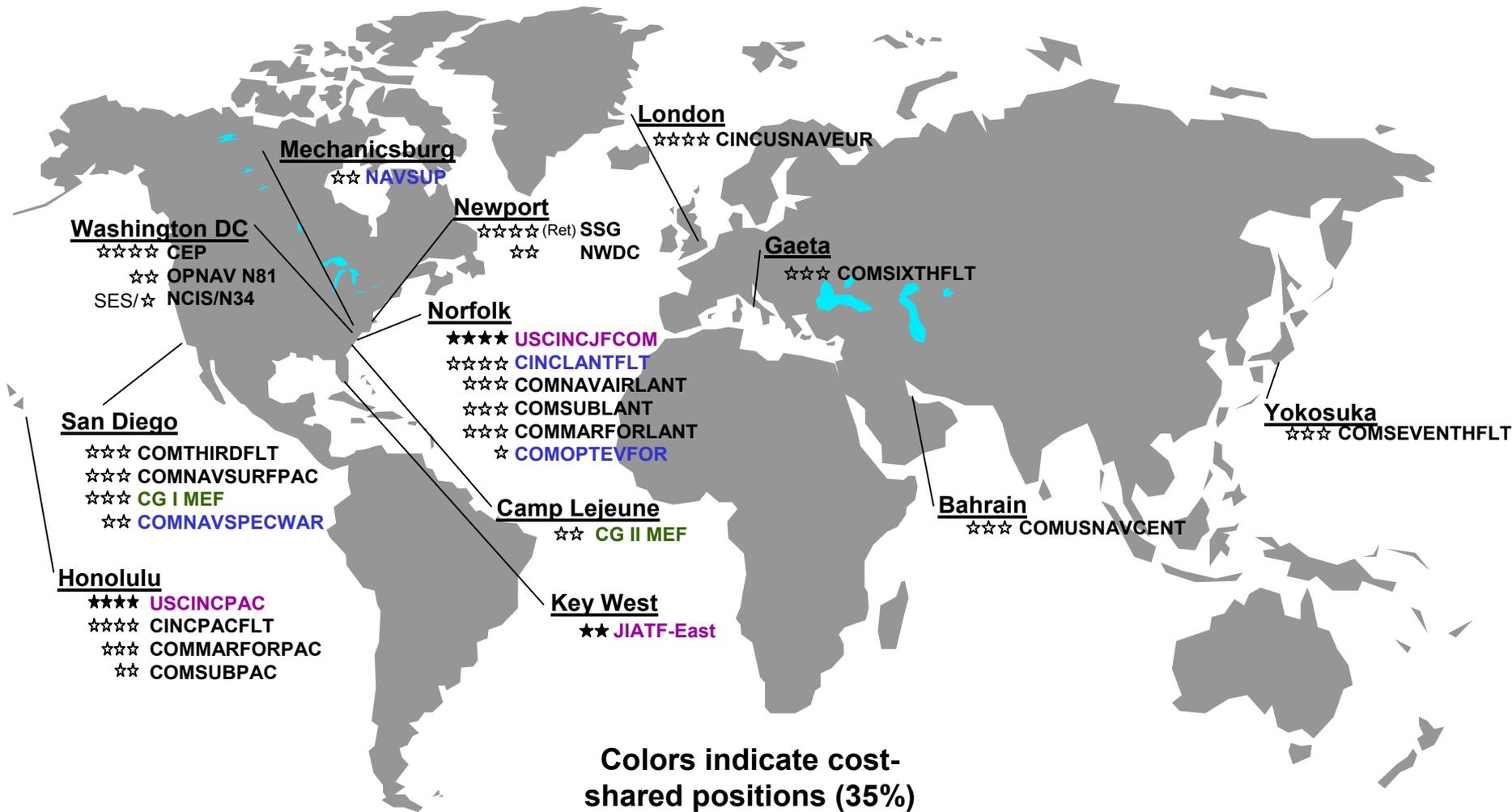
*** Emerging Clients:**

- Deep Blue
- NYPD



Naval Research Science Advisors

Geographic Locations



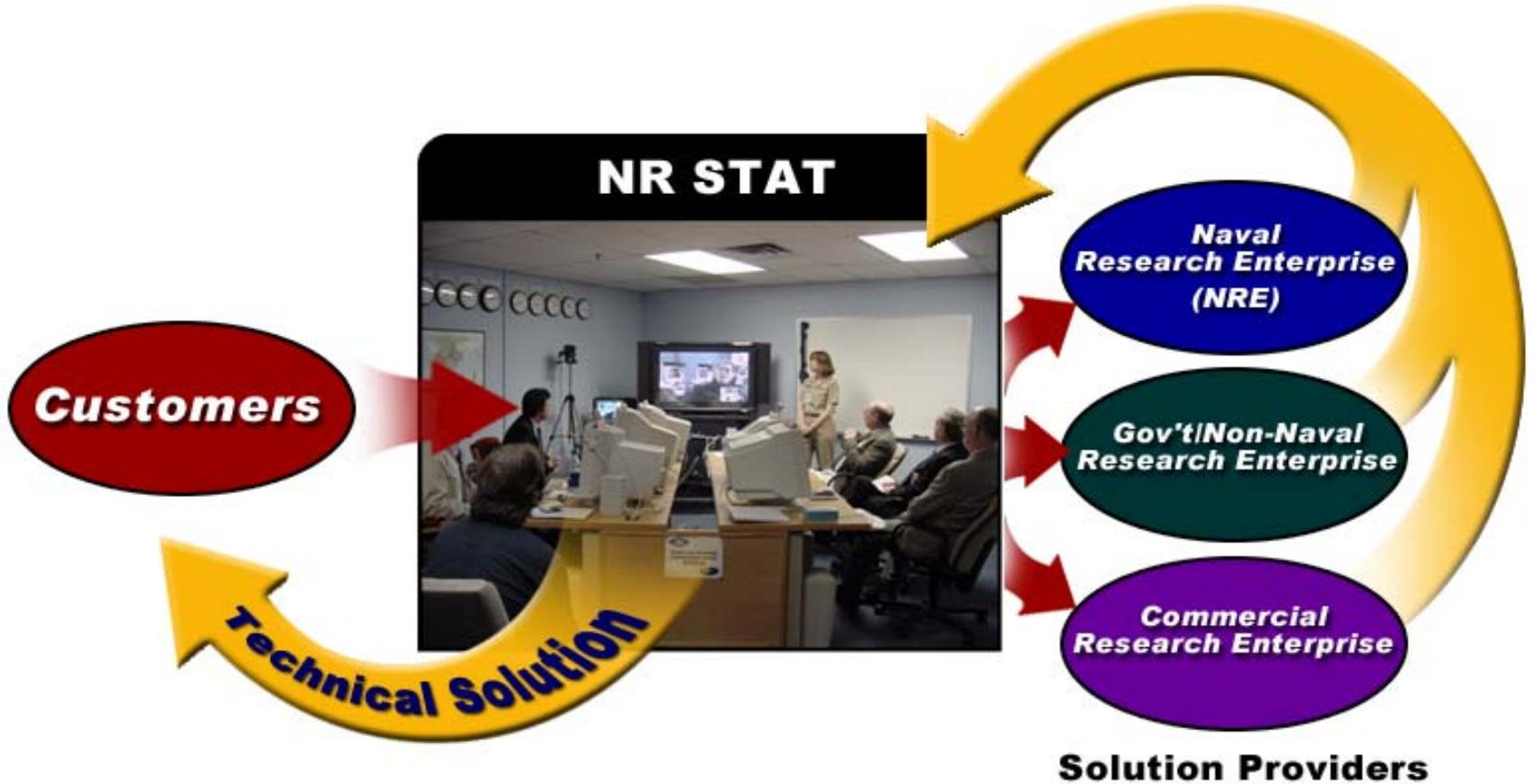
★ Joint Command

07 May 02

☆ Naval Command



NR STAT COLLABORATION PROCESS



Communication Channels	<ul style="list-style-type: none"> ● SIPRnet ● Secure Voice ● Secure FAX 	<ul style="list-style-type: none"> ● Secure VTC ● JWICS ● NIPRnet
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NR STAT: A SNAPSHOT

- **Initiated AUG01-C6F Exercise**
- **24/7 Ops** started 17SEP01
- **124 requests as of 8 August 02**
 - 100 satisfied
 - 24 connected
- **SmartBoard** display installed for collaboration
- **STU-III** capability (voice & fax)
- **SIPRNET** connectivity & 24/7 Website
- **Classified VTC** capability
- **Database** capturing all requests with solutions
- Increase of watchstanding coverage to **16 hrs per day**, via ONR STAT Watchstander at CINCUSNAVEUR (London)



**VTC Collaboration with C6F NRSA (aboard USS La Salle), Army Science Advisors & NFFTIO
24 January 2002**



NR STAT SUPPORT

Water Checker

MISSION: Force Protection
THREAT: Terrorist contamination of shipboard drinking water supply with a specific toxic agent.
REQUEST: Easy-to-use shipboard water testing technology



SOLUTION:

The Naval Cyanide Test Kit **(NACTEK)**



SOLUTION: Simple and rapid testing of water by corpsman, using test strips-- followed by confirmatory testing using agent-specific electrode.

IMPACT:

- Provided Fleet with water testing technology in 20 days following request.

Request described at classified VTC with Fleet, ONR Code 34 and US Army SBCCOM 28 Jun 02.

ONR Code 34 & NRL Development & Lab Testing NACTEK (In collaboration w/ US Army SBCCOMM)

Prior to kit's delivery to Fleet, NACTEK protocol was refined, with input from Fleet Corpsman. Delivered 18 Jul 02.

Day

Day



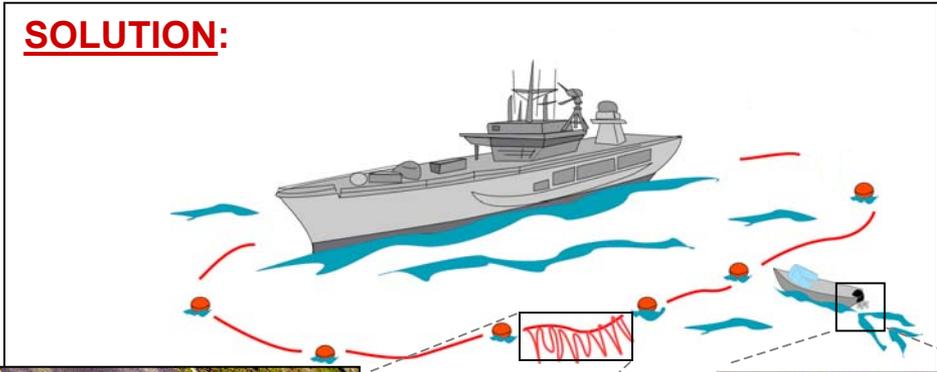
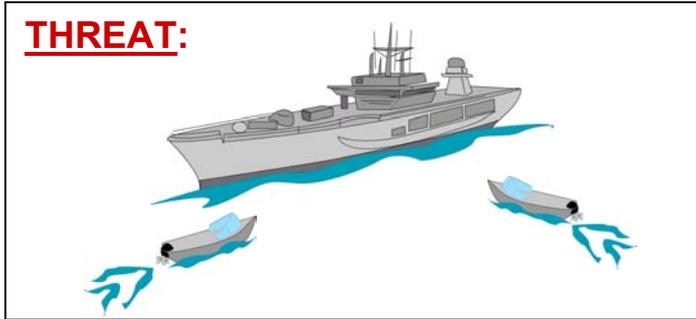


NR STAT SUPPORT

Running Gear Entanglement System

MISSION: AT/FP
THREAT: Go-Fast Boats in Harbor
REQUEST: In-port perimeter defense

SOLUTION: Running Gear Entanglement System (RGES) establishes a visual perimeter that also entangles the propellers of small boats



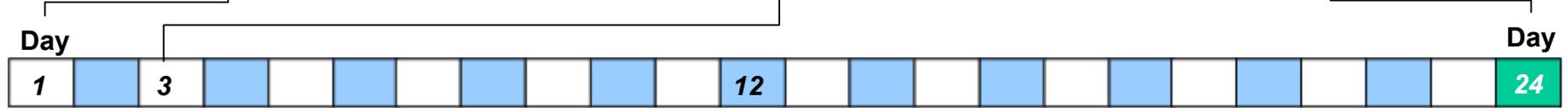
IMPACT:
Deployable perimeter defense capability embarked USS BLUE RIDGE in **24 days** from request.



C7F Naval Message detailing real world threats received 29 JAN 02

Classified VTC with C7F, ONR, NSWC-Crane and NSWC-Dahlgren 31 JAN 02

Delivery to USS BLR pierside in Singapore 22 FEB 02





NR STAT SUPPORT

Unambiguous Warning Signal

MISSION: AT/FP

THREAT: Encroaching Small boats in harbor

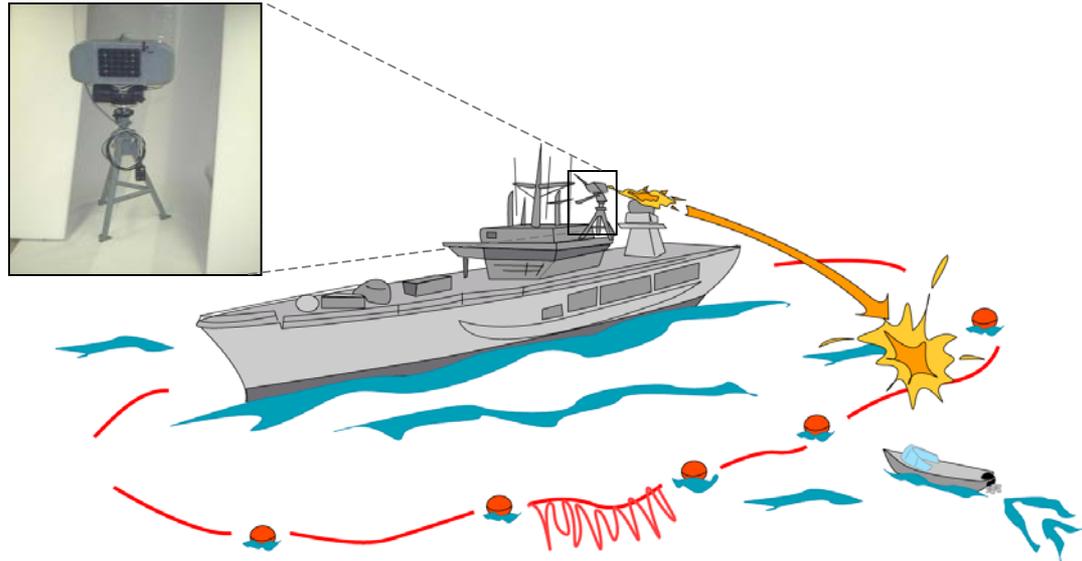
REQUEST: Unambiguous Warning Signal for close-in vessels

SOLUTION: Develop a prototype device for deployment and experimentation *

* **Safety certification pending**

IMPACT:

- Prototype signaling device delivered to the USS BLUE RIDGE in **24 days** from request.
- Effort has highlighted the need for a Signaling Device and generated interest from OPNAV and US Customs.



Distributed C7F request to entire NRE for potential solutions

Classified VTC with C7F, ONR, NSWC-Crane, and NSWC-Dahlgren
31 JAN 02

Prototype signaling device delivered to the USS BLUE RIDGE
24 Days from request

Day

Day





NR STAT SUPPORT

Medical Triage



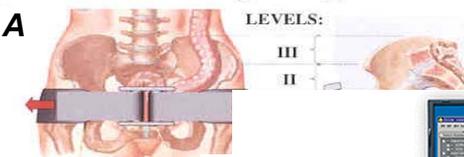
SOLUTION: Portable diagnostics; Hemostatic Agents; Noninvasive Methods for Internal Injuries

MISSION: Maritime Interception Operations
THREAT: Casualties during boarding
REQUEST: Lightweight, portable, advanced triage support

IMPACT:

- Provided C6F with advanced portable medical technology in **22 days**.
- C6F evaluating for Force Protection FNC

SOLUTION:

A  **LEVELS:**
III
II

B  **Terason® Portable Ultrasound**

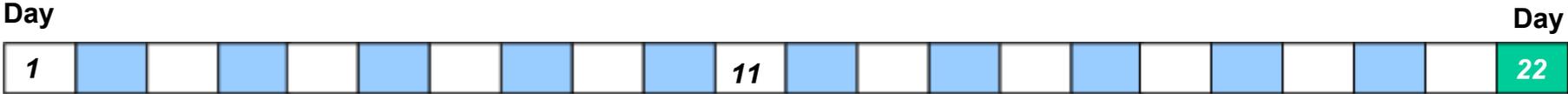
C  **QuikClot Hemostatic Agent**

Pelvic Sling (Pelvic Ring Stabilizer)

Request received from C6F
10 FEB 02.

Classified VTC with C6F and ONR Code 34
conducted on 19 FEB 02.

C6F received items on
4 MAR 02.



NR STAT SUPPORT

Radiation Detectors

MISSION: Counter-terrorism

THREAT: Radiation detectors needed.

REQUEST: NYPD urgently needs evaluation information of pager-type radiation detectors, for use by patrol officers to help detect a dirty bomb.

SOLUTION: In response to ALLCON message from NR STAT, information provided to NYPD by NSWC Carderock, NSWC/Dahlgren, DOE, NSWC-Indian Head, NRL, Sandia National Lab & Oak Ridge National Laboratory

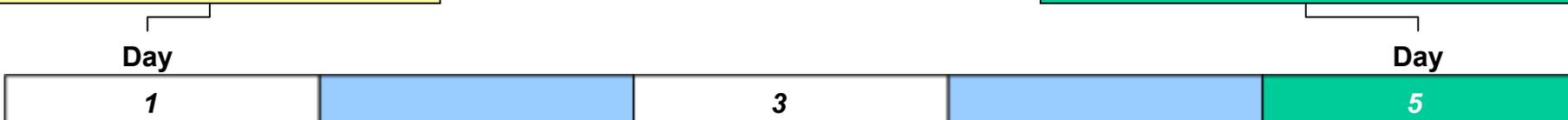
IMPACT:

- DOE to test devices for NYPD and with NRC are going to set a national standard for this type of device.
- Several labs offered to evaluate detectors and provide info..



Evaluation information requested by NYPD

Within 5 days, NYPD had received sufficient information to select pagers for use by patrolmen





NR STAT SUPPORT

Underwater Netting

MISSION: Force Protection

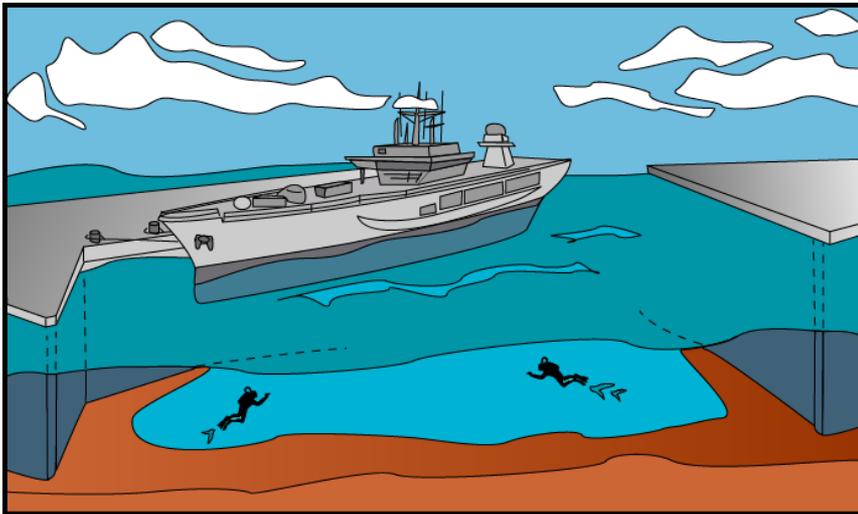
THREAT: Combatant Swimmers

REQUEST: Need device to stop swimmers from approaching protected ships

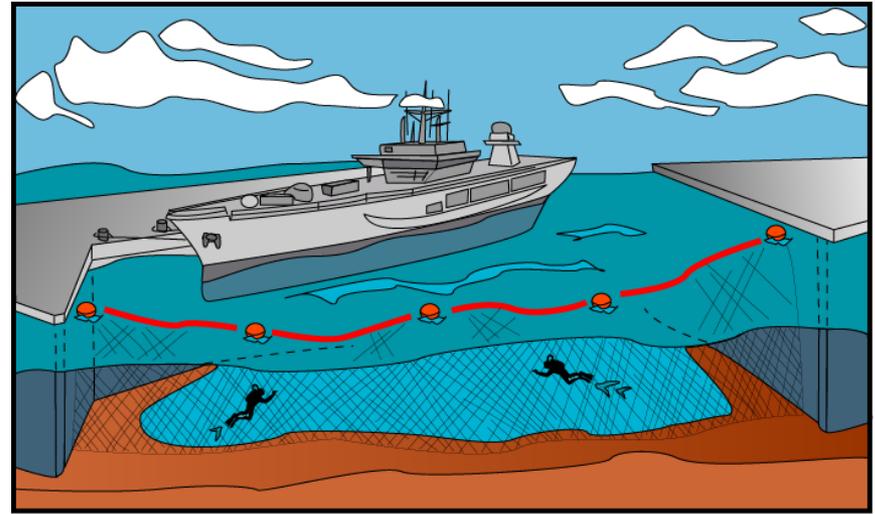
ACTION:

- Contacted entire NRE.
- Received input from NFESC, NSWC- Carderock, NOOTWC-Dahlgren, and JHU- APL.
- Requestor currently working with NOOTWC to develop net combined with the RGES.

THREAT:



SOLUTION:





OTHER EXAMPLES OF NR STAT SUPPORT

C4ISR

- *Disposable UAV's and variety of launching methods –OPNAV Naval Operation Group (“Deep Blue”)*
- *Targeting (Hairy Buffalo-APY6 Radar) - C5F*

Force Protection

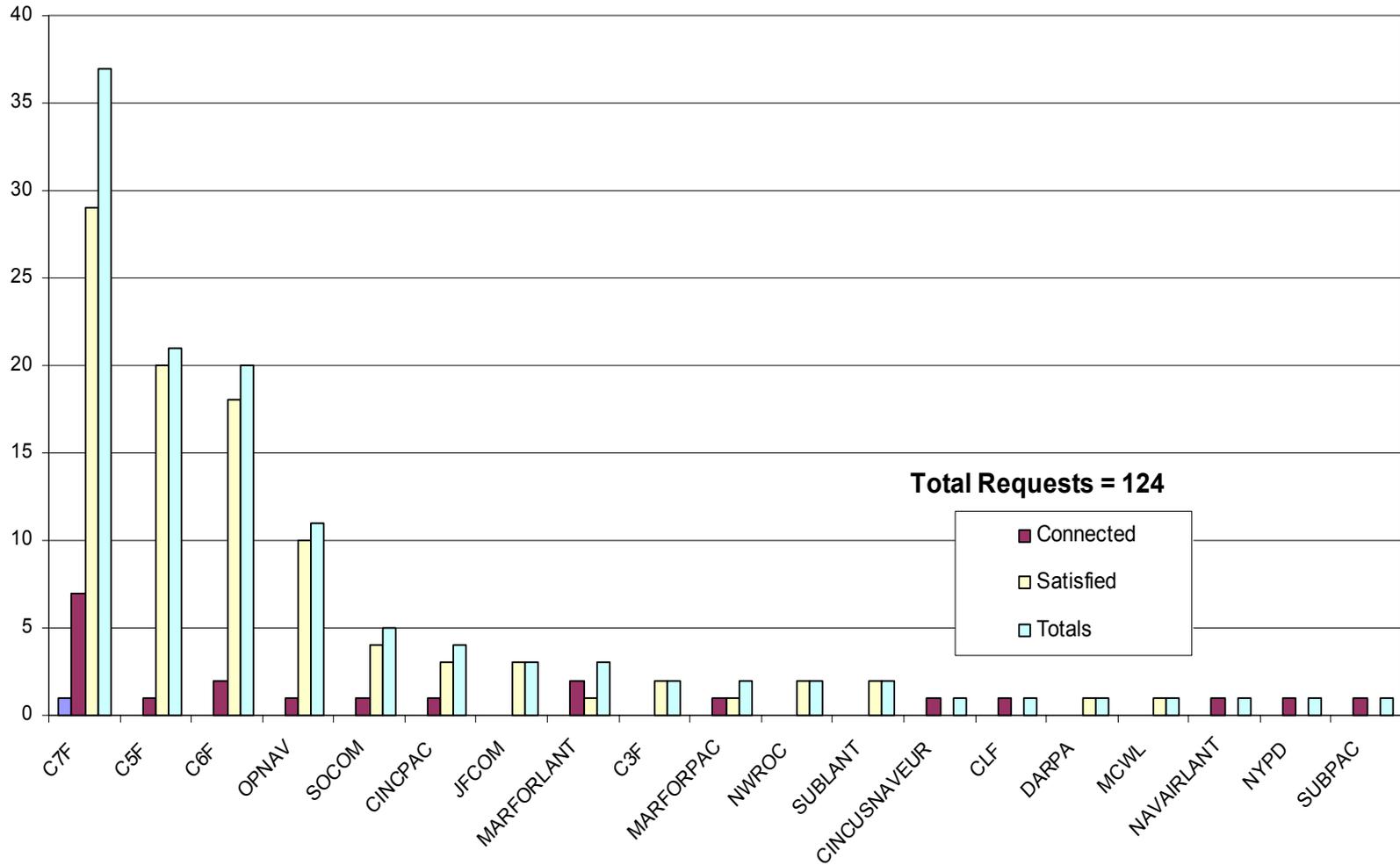
- *Large Vessel Stopping - CINCLANTFLT & C7F*
- *Cargo Ship Search Technologies - C6F & JFCOM*
- *Surveillance and Automatic Detection, Kabul - MARFORLANT*
- *Cold Weather Equipment/Capability - MARFORPAC*
- *Swimmer Detection Systems - C3F, C5F, C6F, C7F, & CINCLANTFLT*

Chem- Bio Defense

- *Human Remains Decontamination - JFCOM*
- *Detecting Food and Water Contamination - C5F and C7F*

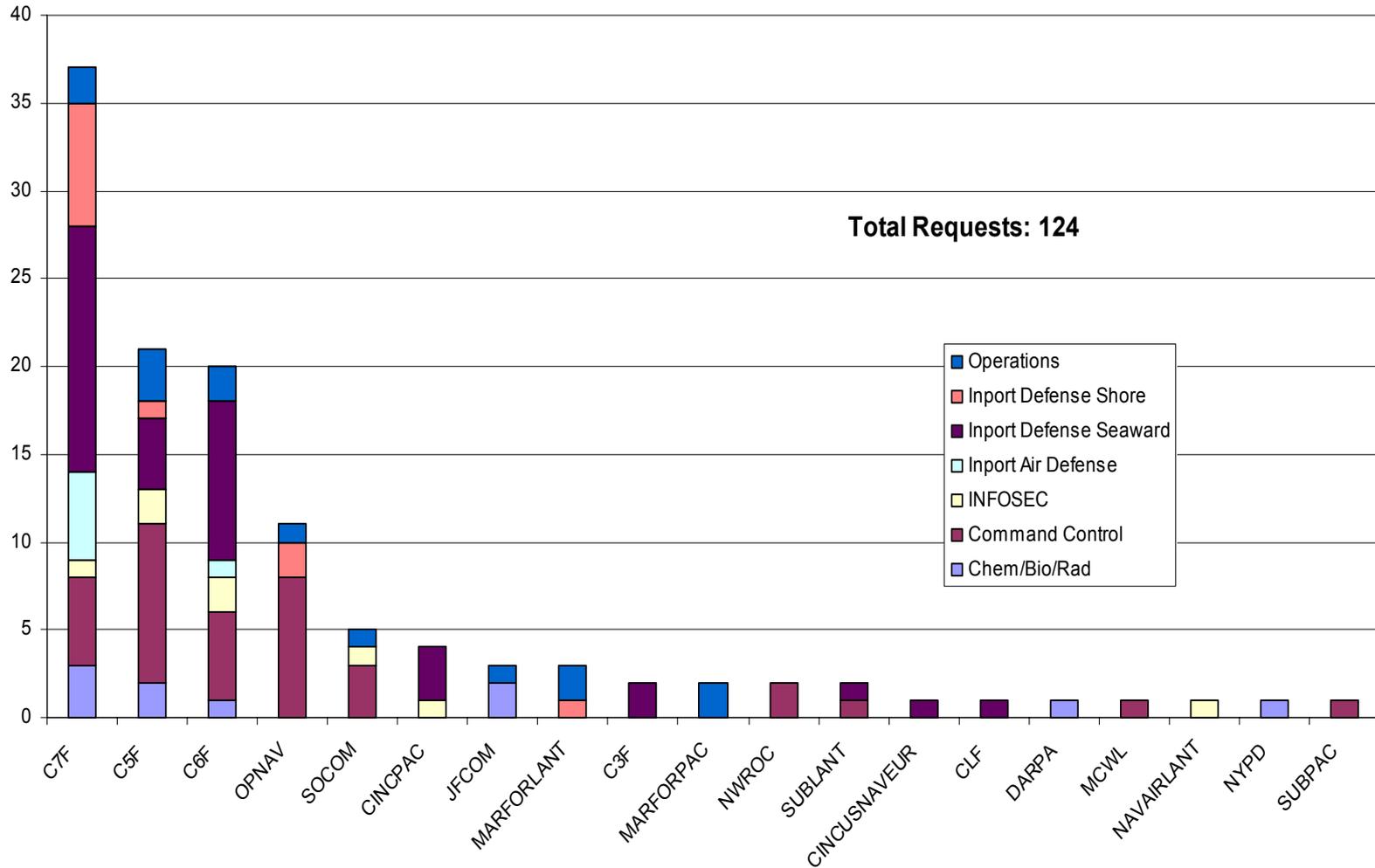


CUSTOMER REQUESTS STATUS AS OF 8 AUG 02



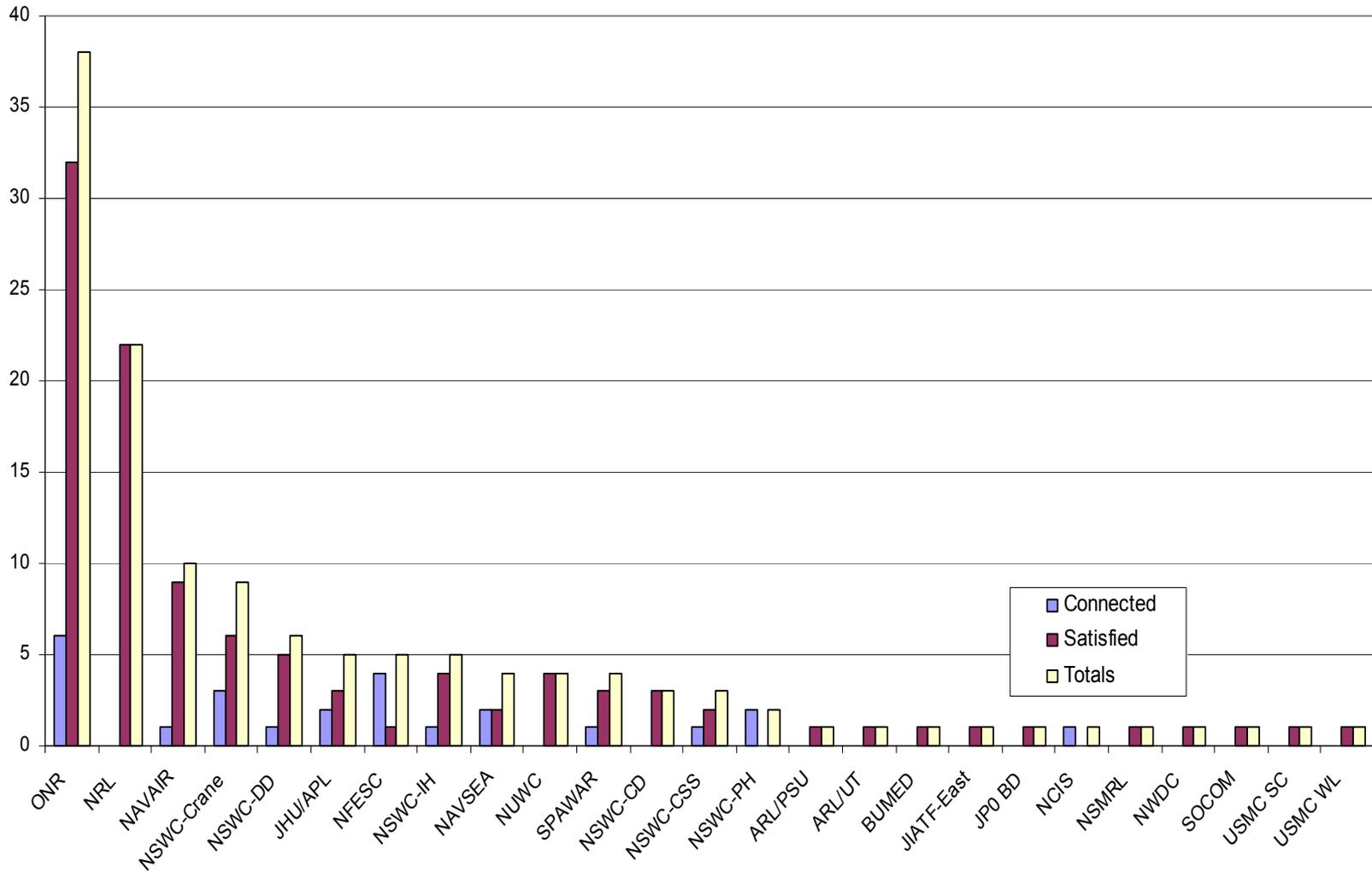


CUSTOMER REQUESTS CATEGORIES AS OF 8 AUG 02



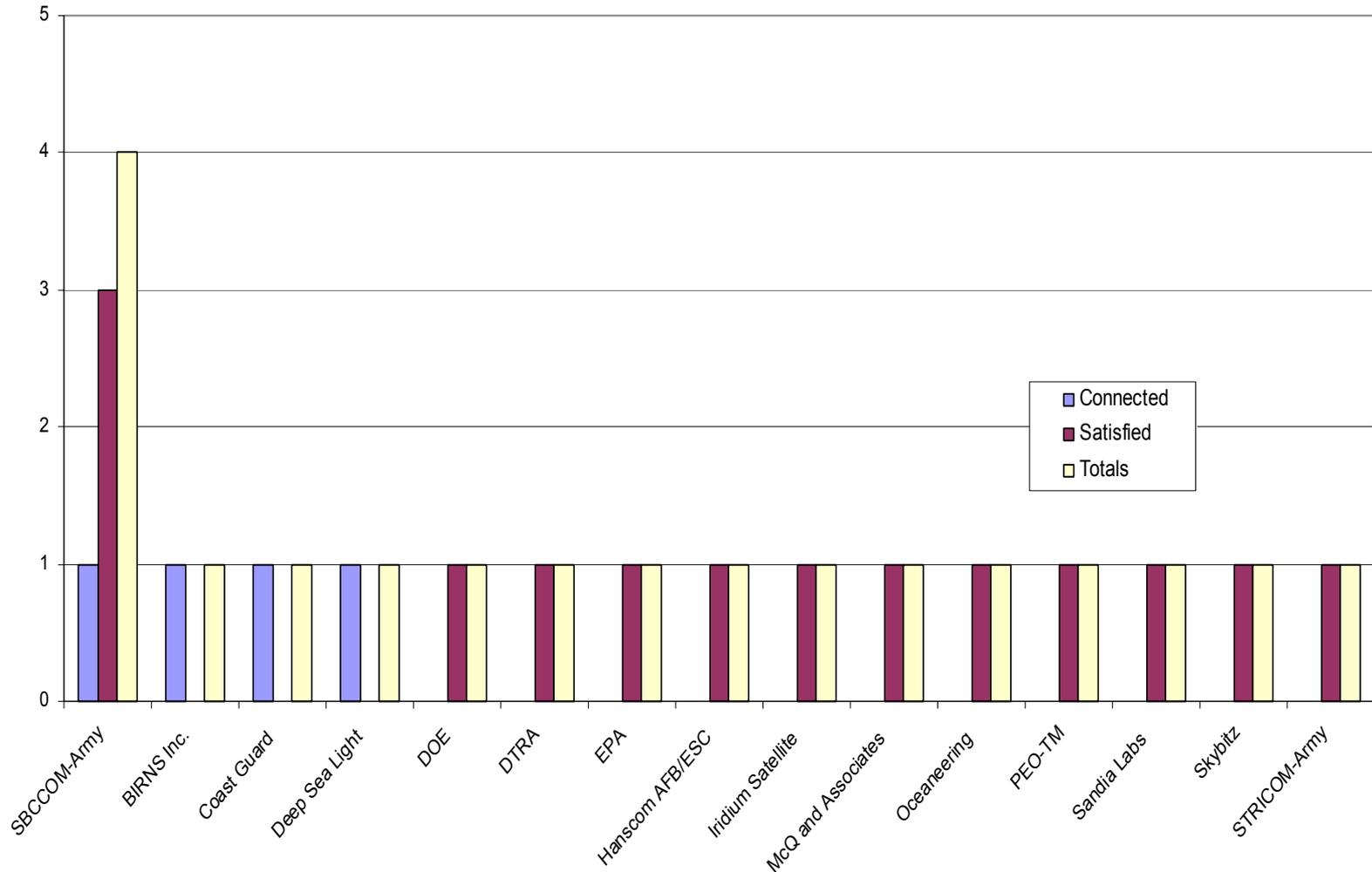


NRE CONNECTIONS AS OF 08 AUGUST 02





NATIONAL/COMMERCIAL CONNECTIONS AS OF 8 AUG 02





NR STAT: WEB-BASED RESPONSE

Welcome! - onr_st_action_team - Microsoft Internet Explorer provided by ONR

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss Hopper Real.com

Address http://164.198.121.36/QuickPlace/onr_st_action_team/Main.nsf/h_Toc/32d9825d03ff4e8f85256ad8006e96cd/?OpenDocument Go Links >>

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STAT Library:
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Video Teleconferences:
TEAM TANGO Approved Lists:
NRE Mature Technologies:
NRE 1-5 Year Technologies:
Face the Fleet Briefings:
AT-FP Procedures & Policies
Guidance:
STAT Discussion Pages:
Fleet Exercises
War Games:
S&T Summaries:
Links
Useful Links on the Unclassified
Web
Library
Calendar
Index
C6F STAT Proof of Concept
Original STAT Tasks

S & T Action Team



Welcome to the S&T Action Team Website!

Below is a highlight of the features of this site :

Science and Technology Summaries A summary of the most requested technologies and the latest status. Summaries include links to more detailed documents.

STAT Task Status Tracking View the most up to date version of the STAT tasks and see what there status is

NRSTAT POC List View the most up to date STAT POC listing or download the excel spreadsheet with the listing

Video Teleconferences Find the minutes from the last VTC, view the agenda for the next VTC or Add Agenda items for the next VTC

NRE Mature Technologies View the latest information from the Naval Research Enterprise, where there are over a 100 technologies displayed that are available in one month or less

NR STAT Discussion Categorized discussions where users can post information or questions and other users may respond

Internet



STAT POINTS OF CONTACT

- **STAT Watch Captain**
 - STU-III: 703/696-5411
 - COMM: 703/696-3060
 - Secure Fax: 703/696-6964
- **SIPRNET**
 - Email: stat1@onr.spawar.navy.smil.mil
 - Web: http://164.198.121.36/QuickPlace/onr_st_action_team/Main.nsf
- **NIPRNET**
 - Email: stat@onr.navy.mil

