Space and Naval Warfare Systems Center Atlantic

Tidewater Association of Service Contractors
Industry Outreach Initiative
11 October 2018

Mr. Chris Miller, SES
SSC Atlantic
Executive Director
CNO John M. Richardson

“the Navy the nation needs”

“to fulfill the maritime responsibilities in the National Defense Strategy”

Bigger — Better — Networked — Talented — Agile — Ready
Strategically Located

SSC Atlantic
Delivering mission-critical information warfare capabilities to the Warfighter, including communication systems (radios), networking systems (routers/switches), cyber operations (red team/forensics/network defense), intelligence, surveillance, reconnaissance (sensors/decision support applications), business systems (benefits/personnel) and information security.

SSC Atlantic Total Facilities: 129 bldgs, 2.3M sq ft
## SSC Atlantic By the Numbers

### Resources (FY18)
- Primarily a Navy Working Capital Fund (NWCF) Organization
- $2.93B Total Obligation Authority
- $1.6B Total Obligations
  - 41% Small Business
  - 400+ Small businesses
  - 91% Competition
- Service Task Order Award
  - $5.3M Avg. Ceiling
  - $794K Avg. Obligated
- New Orders
  - 67% Naval
  - 23% Joint
  - 10% Non DoD
- Workforce (FTEs)
  - 73% Naval
  - 24% Joint
  - 3% Non-DoD

### Workforce
- 4,450 Civil Service
- 128 Military
- 241 New Professionals
- 71 Student Interns
- 13 SSTMs
- 29 Technical Warrant Holders
- Education
  - 56 PhDs
  - 1,198 Masters
  - 1,973 Bachelors

### Teams
- 5 Departments
- 120 IPTs
- 436 Projects

### Top Sponsors
- SPAWAR & PEOs
- MARCORSYSCOM
- NAVSEA & PEOs
- Defense Health
- NAVAIR & PEOs

### Top Occupational Series
- IT Specialist
- Electronics Engineer
- Computer Scientist
- Mgmt & Prog Analyst
- Electronics Tech

### Key Statistics
- 11 yrs. average service
- 46 yrs. average age

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Organized Around Teams

Integrated Product Team (IPT) competencies cooperatively functioning together to produce goods and services

- Fleet C4I and Readiness: Charlie Adams
- Expeditionary Warfare: Kevin Charlow
- Enterprise Systems: Patrick Fitzgerald
- Shore C2ISR and Integration: Bruce Carter
- Science and Technology Department: Dr. Suzanne Huerth

Competencies (people, processes, & tools)

1.0 Finance
   Virginia Pitts and Tony Jones
2.0 Contracts
   Steve Harnig
3.0 Office of Counsel
   Michael Roys
4.0 Logistics & Life Cycle Engineering
   Brad Hoisington
5.0 Engineering
   Pete Reddy (CHENG)
6.0 Program & Project Mgmt
   Pete Van
7.0 Science & Technology (includes Work)
   Dr. Suzanne Huerth
8.0 Corporate Operations
   Dave Monahan

Fleet C4I and Readiness Department

FY18: 1,557 FTEs

95 Programs / Projects

- Engineer C4ISR capabilities for critical tactical systems:
  - CANES, Computer Network Defense systems, Cryptologic Carry-On Program, SSEE, Software Defined Radios

- Integrate and Install modernized C4ISR systems into ships, submarines and supporting shore stations

- Engineer and support satellite and inertial navigation systems

- Support Fleet C4ISR systems to maintain Fleet Readiness

▼ Fleet C4I and Readiness Divisions

Ensuring Information Warfare superiority through collaboration, alignment and engineering excellence.

- Battlespace Awareness Division
- Information Assurance and Navy Cybersecurity Division
- Command & Control and Afloat Applications Division
- Navy Afloat Transport and Navigation Division
- Foreign Military Sales / Air Integration / Coast Guard Div.
- Navy Afloat Networks Division
- Surface Ship Integration Division
- Submarine Integration Division
- Shore C4I Integration Division
- C4I Modernization and Readiness Division

Major Sponsors
- PMW 120
- PMW 130
- PMW 150
- PMW 160
- PMW 170
- PMW 740
- PMW 750/760
- PMW 770
- PMW 790
- FRD
- NAVSEA
- NAVAIR
- USCG
- Fleet Cyber
- Numbered Fleets

Expeditionary Warfare Department

ExW Department
FY18: 529 FTEs
74 Programs / Projects
- Deliver Information Warfare capabilities to the Marine Corps and Special Operations Command
- Provide full spectrum C4ISR systems and services to Marines and Special Forces
- Engineer end-to-end C4ISR systems in tactical vehicles
- Develop and sustain Enterprise IT system capabilities & solutions

- Expeditionary Warfare Divisions
  Rapidly delivering C4ISR, Cyber and IT systems and engineering services to meet the Information Warfare needs of the Marine Corps and Special Operations Command.
  - Expeditionary Enterprise Systems and Services Division
  - Expeditionary Intelligence Solutions Division
  - Marine Air Ground Task Force (MAGTF) Command, Control & Communication Solutions Division
  - Land Systems Integration Division

Major Sponsors
- MARCORSYSCOM
- MARFORCYBER
- SOCOM
- HQMC
- PEO Land Systems
- USMC

Amphibious Assault Vehicle (AAV)
Supporting AAV program office by assessing technology on combatant crafts for potential transition to future AAVs. SOCOM combatant craft navigation development efforts could benefit USMC
Enterprise Systems Department

ES Department
FY18: 487 FTEs
44 Programs / Projects
- Provide automation through development and deployment of modern software-intensive solutions
- Local, Base and Wide Area network solutions
- Networks and Satellite Communication Gateways
- Hosting for software application and services including private and commercial Cloud services
- Provide software engineering solutions for MPT&E

▼ Enterprise Systems Divisions
Delivering cost-effective Enterprise Business IT solutions by promoting innovation and developing our personnel and delivering solutions using resources across SSC Atlantic.
- Data Center and Cloud Hosting Services (DC2HS) Division
- Manpower, Personnel, Training and Education (MPT&E) Division
- Enterprise Business Systems (EBS) Division
- Infrastructure Systems (IS) Division

Major Sponsors
- PMW 205
- PMW 240
- PMW 220
- PMS 444
- PMW 250
- Veterans Affairs
- PMW 260
- DISA
- N1
- MPT&E transformation

DON-CIO approved for a one year ATO for Cooperative Engagement Capability
Shore C2ISR & Integration Department

FY18: 666 FTEs

220 Programs / Projects

- Engineer, deliver and sustain Naval Air Traffic Control and meteorology systems worldwide
- Design, engineer and sustain IW solutions for command and control, intelligence customers
- Provide and sustain cyber-hardened electronic security and shore industrial controls systems
- Engineer, integrate and deploy advanced networking, cyber resiliency and data analytics for military health systems modernization

Shore C2ISR and Integration Divisions

- Defense Health Information Technology Division
- Industrial Controls Systems & Applications Division
- Special Reconnaissance, Surveillance & Exploitation Division
- Force Protection Solutions Division
- Command & Operations Centers Division
- Air Traffic Control Division

Shore C2ISR and Integration Divisions

Shore C2ISR & Integration Department

Major Sponsors

- Commander, Navy Installations Command
- Marine Corps Installations Command
- Naval Air Systems Command
- Naval Facilities Engineering Command
- Defense Health Agency
- Defense Logistics Agency Energy

Delivered a scalable, turnkey enterprise information and communications systems for Combined Joint Task Force-Horn of Africa headquarters facility at Camp Lemonnier, Djibouti

Science and Technology Department

FY18: 59 FTEs

52 Programs / Projects

- Research development and integration support developing advanced technologies ensuring Naval technology superiority for the Navy and Marines Corps.
- Develop, motivate and sustain partnerships with industry and academia to expand research opportunity, recruitment and promote technology transfer to/from the private sector.
- Rapidly prototype and demonstrate capabilities solving emergent Naval technology needs.

▼ Science & Technology Lead Managers

Researching, prototyping and managing advanced technology development ensuring technical superiority

- Defense Advanced Research Project Agency (DARPA)
- The Office of Naval Research (ONR)
- Naval Innovative Science and Technology Program
- Joint Capability Technology Demonstrations

Major Sponsors

- Defense Advanced Research Projects Agency (DARPA)
- Office of Naval Research (ONR)
- Office of the Secretary of Defense (OSD)
- Navy Tactical Exploitation of National Capabilities (TENCAP)

Participated in four Joint Interagency Field Exp events as part of the Service Academies Swarm Challenge
Assured Communications: Addresses the increasing demand for voice, multimedia and data transmission through wired and wireless communications systems. (5.5)

Autonomy: Enabling systems to adapt their actions to changes in their mission and operating environment without the intervention of a human operator. (7.0)

Cloud Computing/Big Data: IT modernization and digital transformation for resilient infrastructure, platform and software services. (5.5)

Collaboration/Social Networks: Allow social interaction to be aggregated, assessed and pushed back into the supporting systems as structured data that can be used for better decision-making. (5.4)

Cyber Warfare: Ensures availability, integrity, authentication, confidentiality and nonrepudiation of data sources. (5.9)

Data Science/Analytics: Enables access and management of large quantities of data in structured and unstructured forms. (5.6)

Enterprise Resource Tools: Supporting tasking across the software life cycle, to include operational support for major commercial ERP systems or custom solution for business/logistics decision systems across the Navy Tactical Command Support System. (5.4)

Internet of Things (IoT) and Embedded Systems: Operation of computer systems that perform a particular function within a larger system without direct human interactions. (5.5)

Mobility Solutions: Provide wireless technology and infrastructure authentication and connection to the enterprise providing the warfighter the ability to engage with a mobile environment anytime, anywhere. (5.5)

Model-Based Systems Engineering: Technologies used to support the development, management, and application of virtual constructs of varying fidelity across the spectrum of systems engineering. (5.2)

On-Demand Manufacturing processes: Produce products and/or components, when or as they are required at the point of use, using additive and/or traditional manufacturing methods. (4.7)
Technology Exchange Overview

- Purpose: to increase collaboration and communication with industry by exchanging ideas regarding specific challenges and potential solutions in TGAs.
- Opportunity for government and industry Subject Matter Experts (SMEs) to engage in meaningful dialogue to discuss problems encountered, innovative solutions, and potential efficiencies in meeting Naval challenges within the TGAs.
- Technology Exchanges are NOT business development meetings; no discussions are tied to any specific, future solicitations.
- One day meetings: plenary session (AM); Govt/Industry one-on-ones. (PM)

### Technology Growth Areas

|---------|---------|---------|---------|---------|-----|

- Rescheduled due to Florence.
- New Date Nov 28th (NOLA)
- held in HR
- well attended by TASC & AFCEA

Contract Strategy Refinement

General Order of Preference for each type:

- **Service GWACs** –
  use for straight support services / non-TS/SCI; basic staff augmentation tasks
  - SeaPort-e (Navy)
  - ITES (Army)

- **Internal Supply & Service Contracts** –
  use for TS/SCI services or supplies that are directly relatable to our core mission; niche

- **Supply GWACs** –
  use for commercial or NDI-type supplies
  - existing SPAWAR IDIQs (C2, RADTEL, etc.)
  - SEWP (NASA)
  - GSA

Other external vehicles are available for use when appropriate
Information Warfare Research Project (IWRP)

Focusing on underlying technologies that advance Naval information warfare capabilities through a consortium that can support research, development and prototyping

- Enables rapid research for IW
- Prototype projects in the area of IW
- Increases access to innovative commercial solutions for defense requirements
- Fosters innovation with non-traditional industry partners

▼ 26 June SPAWAR awarded the management of the IWRP to Advanced Technology International (ATI)
  - Valued at $100 million over a three-year period

▼ IWRP allows the use of an alternative acquisition method, called an OTA (Other Transaction Authority)
  - Streamlines acquisition processes
  - Enables government more access to non-traditional industry partners

How to engage with the IWRP
https://youtu.be/XsPFPRMtnbk
Engagements with Industry and Academia

Formal Initiatives with Industry

- Contracts Industry Council (CIC): CHAS (bimonthly)
- Industry Days: CHS/HR/NOLA (as required)
  - FY18 YTD: 20 Engagements (13 orders & 7 contracts)
- Technology Exchange: CHS/HR (qtrly)
- Market Research Working Group Town Hall: CHAS NOLA (as required)
- Information Warfare Research Project (IWRP): CHAS/PAC (qtrly)
- CHAS Small Business Industry Outreach Initiatives (SBIOI): CHAS (qtrly)
- NOLA SBIOI: NOLA (annually)
- Tidewater Assoc. of Service Contractors SBIOI: HR (annually)
- Women in Defense Speed Networking: CHAS (qtrly)
- AFCEA WEST: SD (annually)
- DoN Gold Coast: SD (annually)
- Sea Air Space: DC (annually)
- Salute to Small Business (SBA): Columbia, SC (annually)
- ONR S&T: DC (annually)
- CHAS Defense Contractors Association C5ISR: CHAS (annually)
- Society of Military Engineers (SAME) SB Conference CHAS (annually)
- SC Research Authority (SCRA) SB Outreach: CHAS (as requested)
- Small Business Dev. Center Training: CHS/NOLA (qtrly)
- Monthly Industry Luncheons (as requested)

Informal Initiatives with Industry

- Weekly one-on-one meetings (as requested) in conjunction with the Small Business Development Center: CHS/NOLA
- Daily emails/calls

Formal Initiatives with Academia

- Cooperative Research and Development Agreements (as required)
- Partnership Intermediary Agreements (as required)
- Patent License Agreements (as required)
- Commercial Service Agreements (as required)
- Educational Partnership Agreements

Industry Resources

For the innovators
http://www.defenseinnovationmarketplace.mil/navy.html

Doing Business with SPAWAR
SPAWAR e-Commerce Central (E-CC)
https://e-commerce.sscno.nmci.navy.mil

SSC Atlantic Public Page
http://www.public.navy.mil/spawar/Atlantic/Pages/ForIndustry.aspx

Engagements for innovative solutions and improvements in delivery and performance
We deliver information warfare capabilities
Building the Navy and the Marine Corps
our Nation needs

SSC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

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SPAWAR Contract Directorate Office:  https://e-commerce.sscno.nmci.navy.mil