

25

UNDERSEA WARFARE COMBAT SYSTEMS



Code 25 New Contract Strategy Industry Day Kick-Off and Housekeeping

23 June 2015



DISTRIBUTION STATEMENT A. Approved for public release.



Code 25 Industry Day Agenda – 23 June 2015

Naval Undersea Warfare Center, Division Newport, Bldg 80

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Time	Topic	Presenter
0800	Check-in at Building 80 / Auditorium	
	Socializing and Networking	
0900	Kick-Off and Housekeeping	DIVNPT Deputy Competition Advocate/Director, Small Business
0905	Welcome	Commander, NUWCDIVNPT
0915	Code 25 Department Overview	Program Management Office, Code 259
0945	Code 25 New Contract Strategy Presentation	Deputy Department Head, Code 25
1015	NUWCDIVNPT Competition Overview / Closing Remarks	DIVNPT Deputy Competition Advocate/Director, Small Business

Introduction and Ground Rules

- Introduction of participants
 - NUWCDIVNPT Commanding Officer
 - NUWCDIVNPT Technical Code 25
 - NUWCDIVNPT Contracts Department
 - NUWCDIVNPT Deputy Competition Advocate/Director, Small Business
- Intent of Industry Day
 - Encourage competition by:
 - Ensuring all potential offerors receive and have access to the same information
- Technical “Q&A” is encouraged
 - Q&A (all questions submitted in writing) will be answered via SeaPort-e and FBO Portals
 - Forms and receptacle are located at the Registration Table
 - No questions about the incumbent contractors will be answered

Introduction and Ground Rules

- All attendees are requested to sign-in
- Please silence cell phones and pagers
- No personal recording
- The attendees list and Q&A will be posted to the SeaPort-e and FBO Portals
- “Distribution Statement A” briefings will be posted to the SeaPort-e and FBO Portals, and the DIVNPT Electronic Reading Room at:
 - <http://www.navsea.navy.mil/nuwc/newport/pages/ElectronicReadingRoom.aspx>

Introduction and Ground Rules

- DO NOT directly contact NUWC technical code after today - all further dialogue will be accomplished via the Q&A feature on the on the SeaPort-e and FBO Portals
- Requirements contained in this briefing are presented as a summary

Full/updated requirements will be provided in the Requests for Proposal (RFP)

Disclaimer Statement

- Remarks today by Government officials involved in today's presentations should not be considered a guarantee of the Government's course of action in proceeding with any of the planned acquisitions discussed
- The informational briefing shared today reflects current Government intentions and is subject to change based on a variety of circumstances

The formal solicitation, when issued, is the only document that should be relied upon in determining the Government's requirements

Commander NUWCDIVNPT Opening Remarks

23 June 2015

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UNDERSEA WARFARE COMBAT SYSTEMS



Code 25 Department Overview

23 June 2015



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OUR MISSION:

We will exceed customer expectations by providing high quality, affordable products and services while helping to shape the next generation of USW systems.

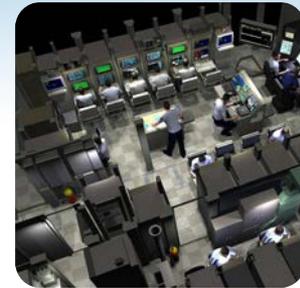
Our workforce is focused on innovation, agility and collaboration to provide effective, best value solutions for our customers.

OUR VISION:

Ensure Warfighter Command of the Undersea Battlespace.

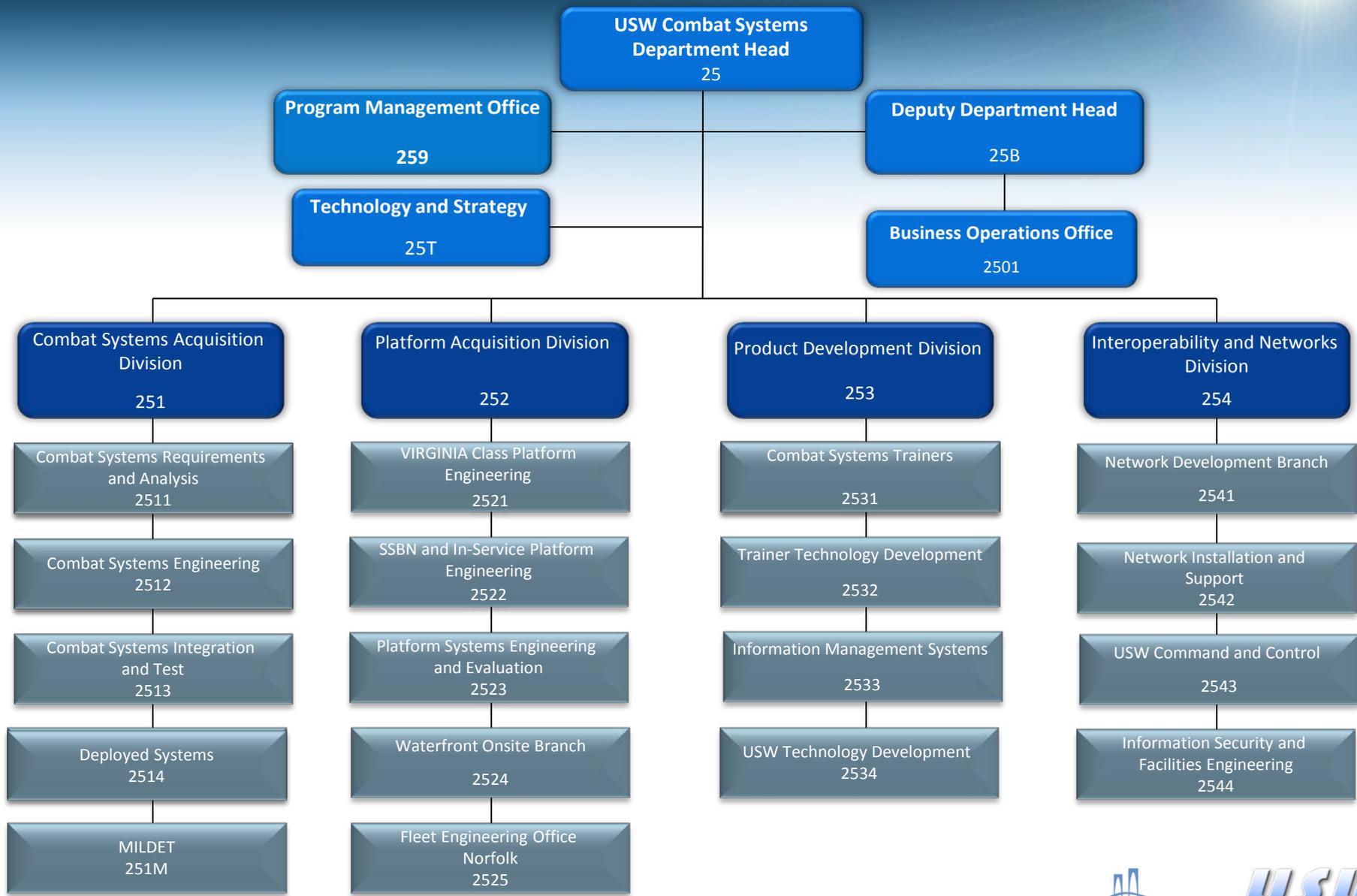
OUR PRINCIPAL ROLES:

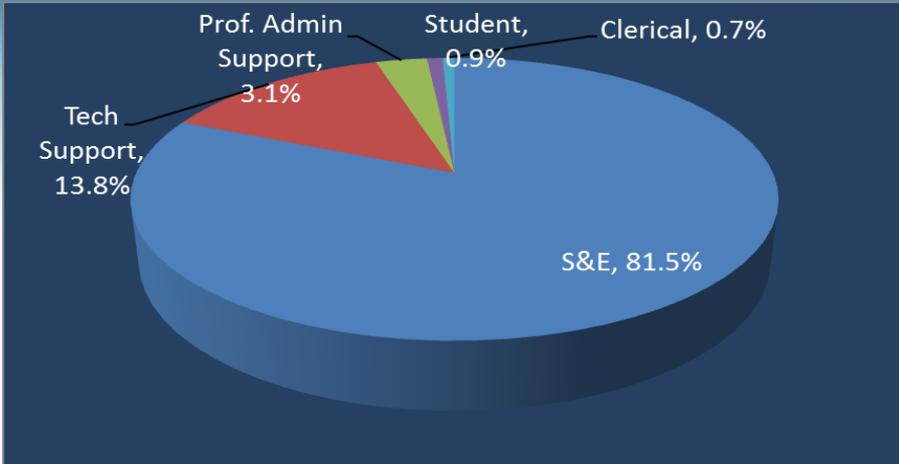
- *Technical Direction Agent*
- *In-Service Engineering Agent*
- *Design Agent*
- *Central Design Authority*



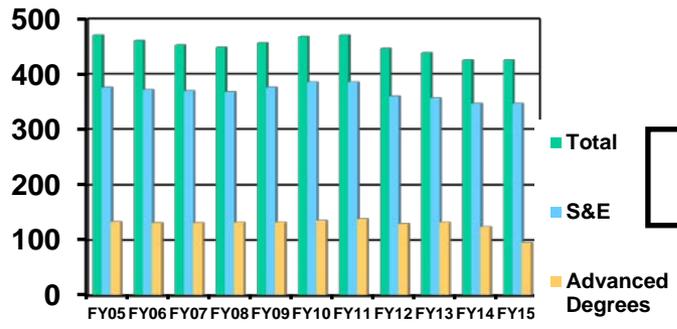
Stewardship of USW Combat Systems Technical Health

USW Combat Systems Department





Our Highly Skilled Workforce is Among the Most Qualified in the Field
18% Have Prior military Experience
Our S&E's Advanced Degrees – 9 PhDs (3%) and 87 Masters (25%)



430 Government Personnel in Code 25 as of End of May 2015

Our Programs/Projects

Bridge to the Fleet



- Naval Tactical Cloud
- ONR/OSD UxV Common Control
- C2 Rapid Prototyping Continuum
- ONR Adaptive Training
- Human Systems Integration
- Virtual Worlds
- Cybersecurity

- Unmanned Aerial Systems
- Virginia Block IV
- Virginia Payload Module (VPM)
- Submarine CANES
- Combat Systems Virtualization
- SWFTS Common Services
- LCS Mission Packages
- Wide Area Integration Facility
- SSBN Tactical Upgrade and Modernization

- AN/BYG-1
- TTWCS
- Virginia
- Ohio Replacement NPES
- Trainers (SMMTT, SBT)
- SWFTS
- SubLAN
- USW Strike
- AN/UYQ-100 (USW DSS)
- International Programs
- Information Assurance

- Submarine Combat Systems ISEA
- Ohio/Seawolf ISEA
- Tomahawk Logistics and Fleet Support
- Operational Documentation
- Trainer On Site Agents
- SCS Certification and Assessment Program
- GCCS-M
- NTMPS
- SOBT
- SEAWARE-LMS
- Nosis

Diverse Portfolio of Customers Across SYSCOMs, ONR and the Fleet



SSN 688i



SSN 774 (Virginia)



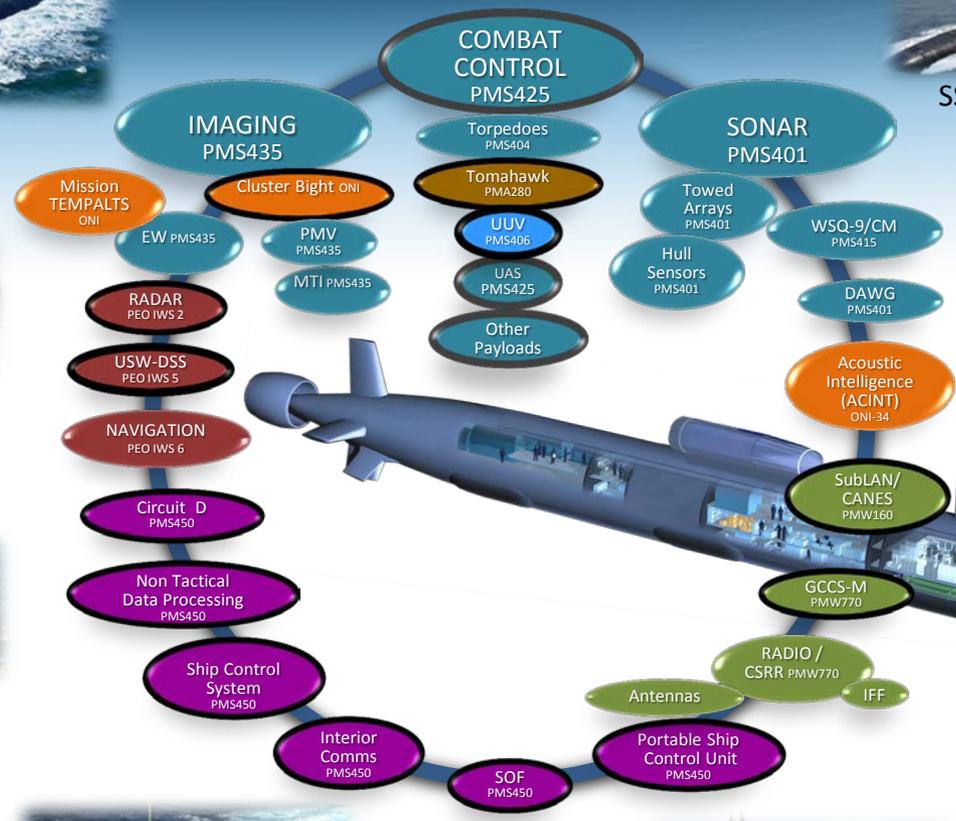
SSN 688 (Los Angeles)



SSN 784 (Virginia Block III)



SSBN 730 (Ohio)



SSN 21 (Seawolf)



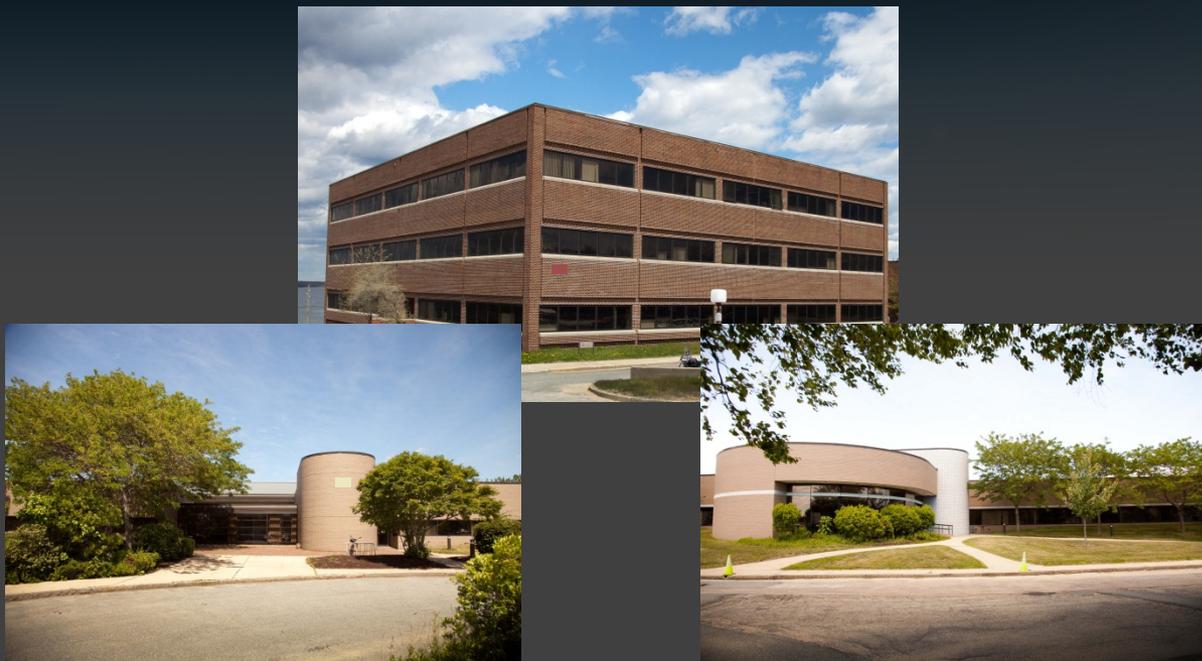
SSGN 726 (Ohio)



Ohio Replacement

- PEO SUB
- PEO IWS
- PEO C4I
- ONI
- PEO SUB (PMS 450)
- NAVAIR
- PEO LCS

Executing Technical Authority Across Programs, Platforms, and System of Systems



Division Newport Offices and Laboratories

- **Key Facts:**
 - *Located in Newport, RI on the Naval Undersea Warfare Center Division Newport campus*
 - *Office Space: 3 buildings, approximately 90,000+ square feet accommodating over 500 government, contractors and military personnel.*
 - *Laboratories: 3 separate labs totaling 90,000+ square feet supporting prototyping, development, in-service and fleet support and integrated logistics*
 - *Internal connectivity to other USW warfare systems via campus-wide fiber link*
 - *External connectivity to fleet, other government and Navy labs as well as industry*

Our Offsite Presence



Fleet Engineering Office (FEO)
St Julien's Creek, VA



NUWCDIVNPT
On Site Office (OSO)
Kings Bay, GA



NUWCDIVNPT
Detachment (DET)
Bangor, WA



- Washington DC :
 - PMS425
 - SSP
 - Progeny Systems

- Norfolk FEO provides full spectrum leadership for DoD Module Test and Repair Program
- Kings Bay OSO and Bangor DET provide waterfront engineering support for SSBN, SSGN and SSN NPES
 - SUBTM Representative also at TTF Kings Bay



- Pearl Harbor, HI
 - CSP, NSTCP (SUBTM)



- Groton, CT
 - SLC (SUBTM)
 - CSDS-12
 - Electric Boat

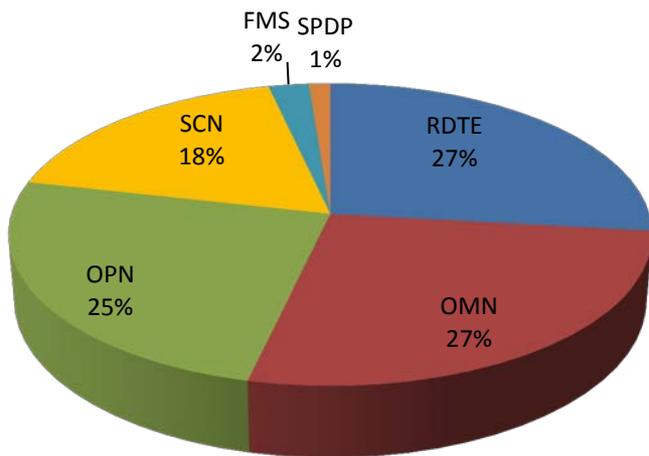
- Support over 20 projects across various portions of their respective product lifecycles
- Complement the expertise of our workforce resulting in a powerful technical resource that enables USW Combat System land-based prototyping, experimentation, development, integration and test, training, assessment and certification
- Combined with other Division Newport facilities and campus-wide connectivity, our labs provide the core component of the Virtual Submarine
- External linkages to industry via our Wide Area Integration Facility (WAIF) facilitate partnerships with these entities in promoting efficient development and integration of new capabilities



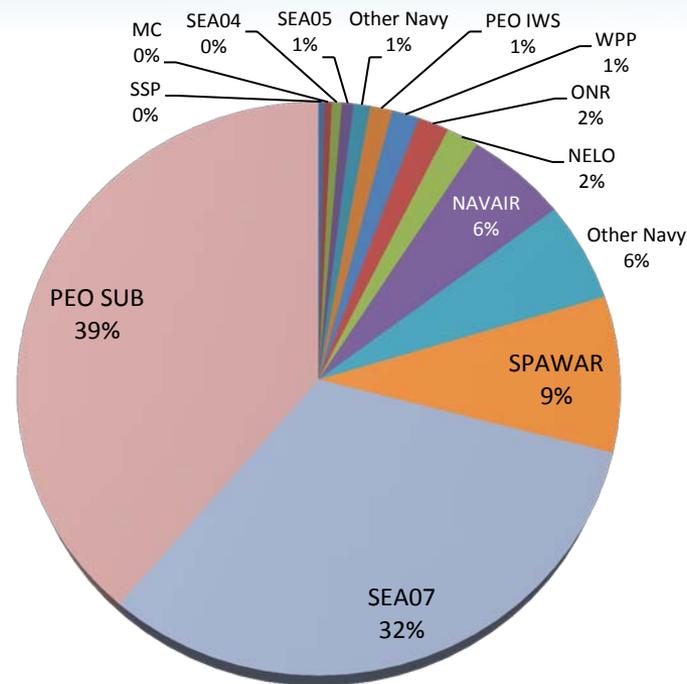
Major Programs

Program	Products	Sponsor
USW Combat Systems Trainers	SBT, SMMTT, ELTT	SEA07TR
AN/BYG-1 Combat Control System	Systems Engineering, Integration, T&E, ILS, Fleet Support	PMS425
Virginia Class Submarine		PMS450
<ul style="list-style-type: none"> Platform Engineering 	Platform and Systems Engineering	
<ul style="list-style-type: none"> Test & Evaluation (T&E) 	Test Engineering	
<ul style="list-style-type: none"> Combat Systems 	Chief Engineer, Combat Systems Engineering	
Tomahawk Weapon Control System (TWCS)	Systems/Software Engineering, T&E, Lifecycle and Fleet Support for Tactical Tomahawk Weapon Control System (TTWCS) and the Cruise Missile Trainer Personal Computer (CMTpc)	PMA-280
Ohio/Seawolf Non-Propulsion Electronic System (NPES) Engineering	Systems Engineering, Integration, T&E, ILS, Fleet Support	PMS392
Ohio Replacement	Systems/Acquisition Engineering, Test and Evaluation Planning, Information Assurance Planning	PMS397
Submarine Warfare Federated Tactical System (SWFTS)	Architecture, Systems Engineering & Integration (SE&I) T&E, ILS, Information Assurance	PEO SUB-S
Submarine Networks	Systems Engineering, Integration, T&E, ILS, Installation, Lifecycle Support for Submarine Local Area Network (SubLAN) and Consolidated Afloat Network Enterprise System (CANES)	PMW160

FUNDING BY APPROPRIATION

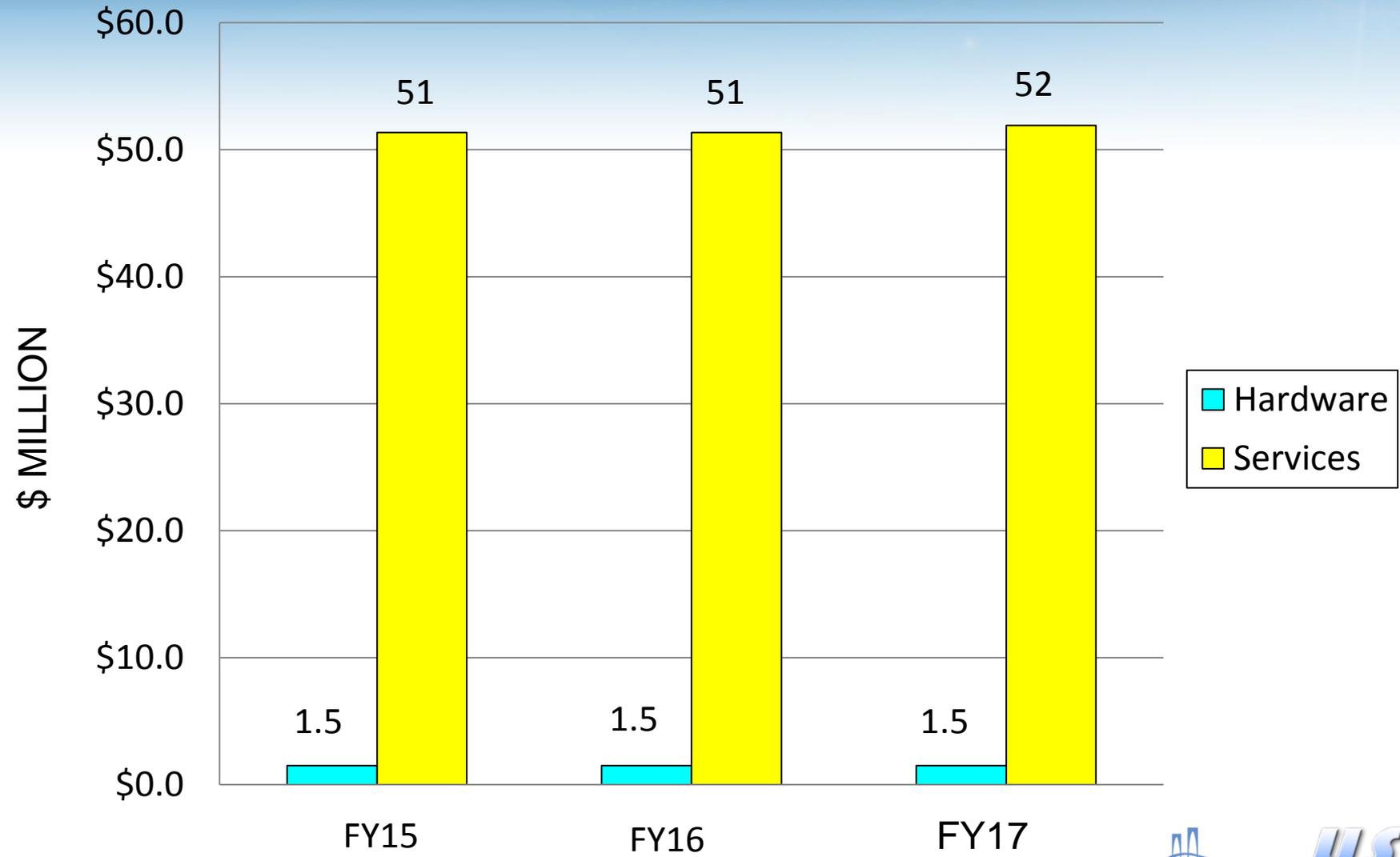


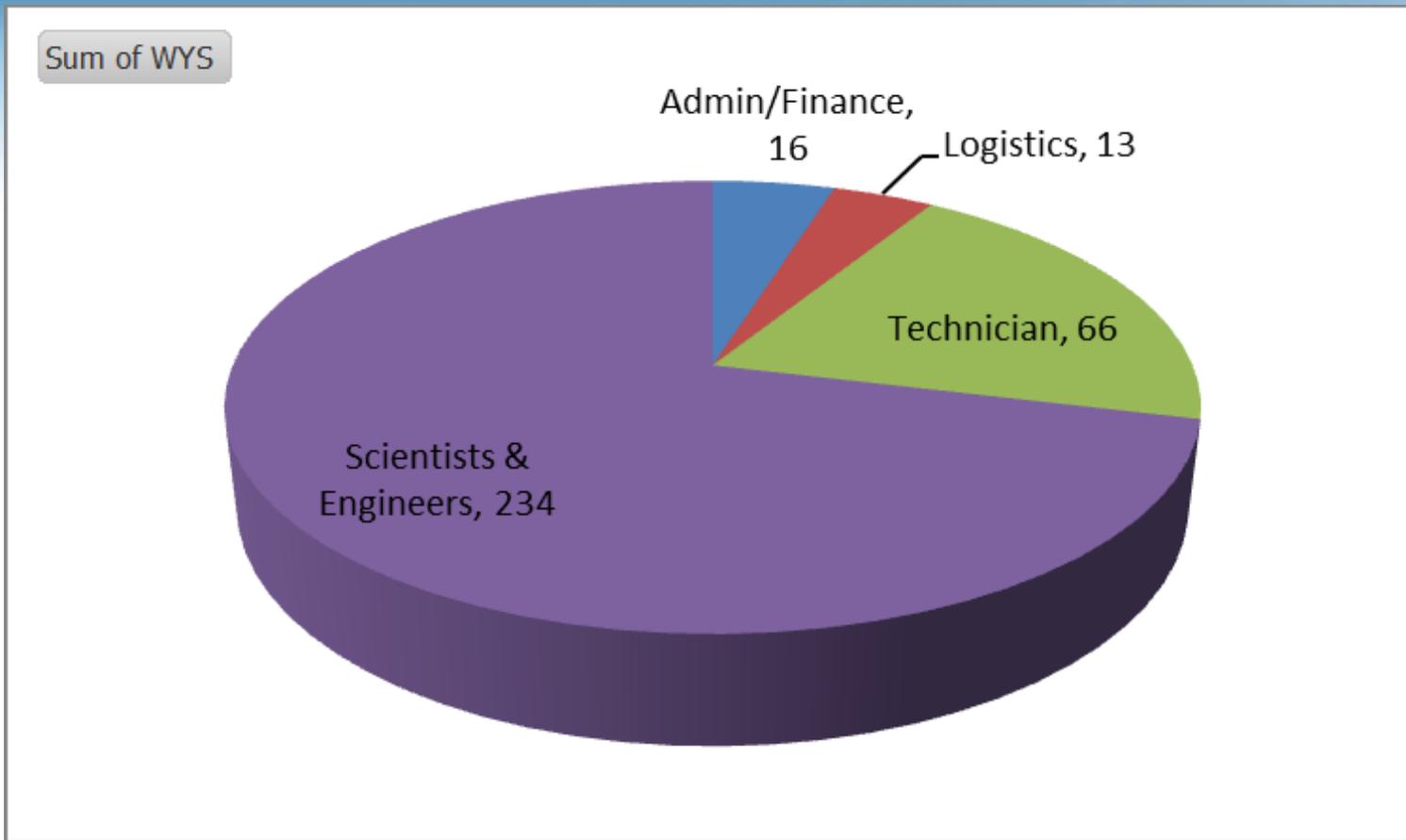
FUNDING BY Sponsor



Projected Contract \$

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329 Outsourced WYs in FY15

25

UNDERSEA WARFARE COMBAT SYSTEMS



Code 25 New Contract Strategy Presentation

23 June 2015



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Objective:

Adapt Code 25 contracts portfolio to align with new Department organization

4 Code 25 Existing Contracts Realigned and Scope Distributed

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CURRENT CONTRACT NUMBER	CONTRACT SCOPE	INCUMBENT
N00178-04-D-4122-N432	Platform Engineering	Seacorp
N00178-04-D-4018-N411	Test & Evaluation	BAE
N00178-04-D-4042-N412	Mission Engineering	AECOM
N00178-07-D-5126-N401	Systems Engineering	KMS Solutions, LLC

1 Code 25 Existing Contract Scope Realigned

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CONTRACT NUMBER	CONTRACT SCOPE	INCUMBENT
N00178-05-D-4455-N403	Facilities Support	Mikel

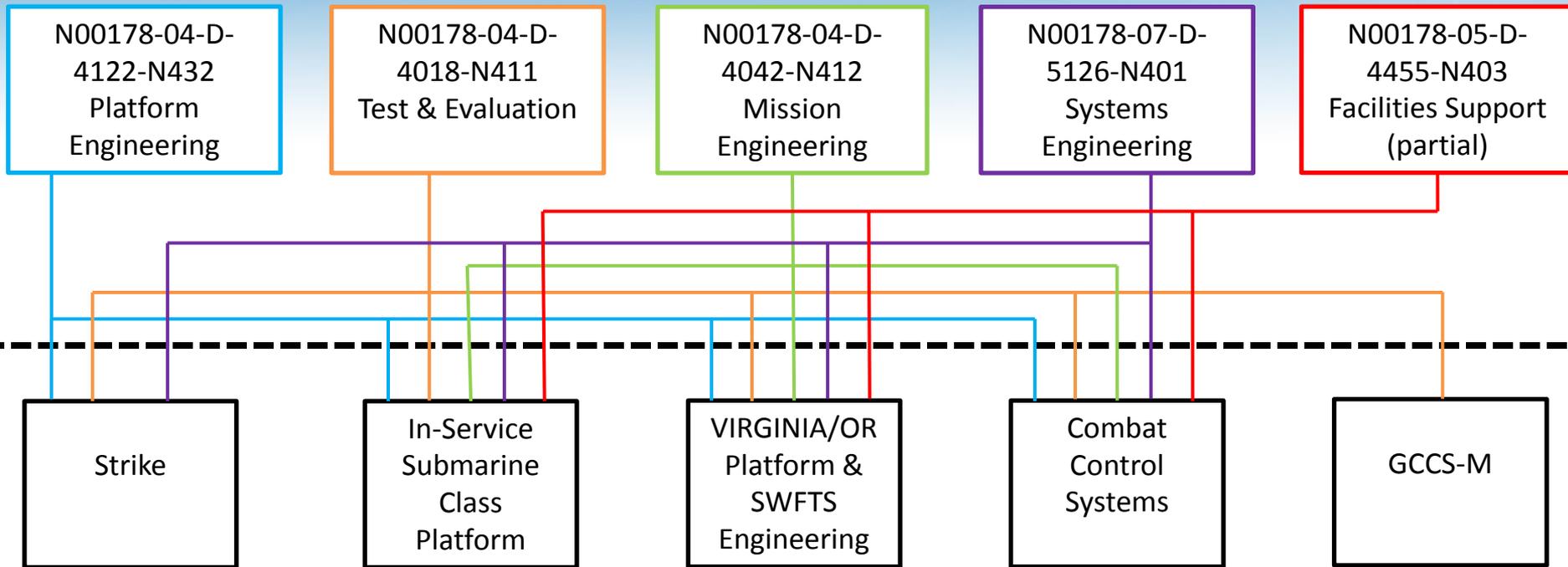
- The portions of the facilities support that are program specific will be taken out of the follow-on to this contract and instead be placed in the associated planned program specific contract.

8 New Contracts Planned

TITLE OF CONTRACT	CODE 25 BRANCH(ES) IN LEAD	ESTIMATED RFP RELEASE
Virginia Class Special Projects	2521/3	Released June 10, 2015
Strike	2512/3/4	Fall 2015 / Winter 2016
In-Service Submarine Class Platform	2522	Fall 2015 / Winter 2016
VIRGINIA/OR Platform & SWFTS Engineering	2521/3	Fall 2015 / Winter 2016
Combat Control Systems	2511/2/3/4	Fall 2015 / Winter 2016
GCCS-M	2542	Fall 2015 / Winter 2016
IA/Cyber security	2544	Fall 2015 / Winter 2016
S&T/Advanced Engineering	251/252/254	Winter 2016 / Spring 2016

Chart Showing Distribution of Work from Current to Future Contracts

Current Code 25 Contracts



Planned Code 25 Contracts that are Partial Follow-Ons

Planned Code 25 Contracts that are New Contract Efforts



New Virginia Class Special Projects Contract

- Summary of Contract Scope:
 - Rapid improvement assessment that involves advanced system engineering in system design and operation in the Block III VIRGINIA Class submarine Non-Propulsion Electronic Systems (NPES), Payload Tube and VIRGINIA Class Payload Module. The contractor shall introduce and recommend improvements to NUWCDIVNPT with a primary objective of improving the current baseline Block IV and Block V VIRGINIA Class submarines performance capability. The contractor shall verify and validate improvements using test and evaluation.

New Virginia Class Special Projects Contract (cont.)

- SeaPort-e Task Order, Zone 1, Northeast
- Five (5) year Period of Performance
- Acquisition Strategy: Unrestricted
- Level of effort 208,000 hours; CPFF
- Other Direct Costs (ODC's) to be in the neighborhood of 8% of total cost
- Unique Personnel: A group of key personnel shall be proposed covering designated areas of expertise and a resume shall be provided for each key person
- Unique Certifications: None
- New Requirement (not partial follow-on to current Code 25 contracts)
- RFP Release:
 - June 10, 2015

New Strike Contract

- Summary of Contract Scope:
 - 5 year Seaport service contract to conduct systems engineering, technical and program management support for current and future Undersea Warfare (USW) Strike tasking, including support for submarine fire control, command and control and system-level activities. The scope shall include Concept Development and System Requirements Review, Analysis and Design Support, Commercial Off-The-Shelf (COTS) Investigation, Interface Definition, Integration, Assessment/Evaluation, Risk Reduction, Concept of Operation Development and Technical Data, Documentation and Program Management Support.

New Strike Contract (cont.)

25

- SeaPort-e Task Order, Zone 1, Northeast
- Five (5) year Period of Performance
- Acquisition Strategy: Unrestricted
- Level of effort 300,000 hours; CPFF
- Other Direct Costs (ODC's) to be in the neighborhood of 10% of total cost
- Unique Personnel: A group of key personnel shall be proposed covering designated areas of expertise and a resume shall be provided for each key person. Focus areas include Tomahawk Weapon System segments and combat systems interfaces; new submarine payload integration and fleet CONOPs/support.
- Unique Certifications: IAT1, IAT2, IAT3, IAM1, IAM2, IAM3, IASAE1, IASAE2
- Partial Follow-On to Current Code 25 Contracts: N00178-04-D-4122-N432, N00178-04-D-4018-N411, N00178-07-D-5126-N401
- Estimated Timeframe for RFP Release:
 - Fall 2015 / Winter 2016

New In-Service Submarine Class Platform Contract

- Summary of Contract Scope:
 - 5 year Seaport service contract for platform engineering, technical, test and evaluation (T&E), and programmatic services for the development, evaluation, modernization, and sustainment of the OHIO Class, SEAWOLF Class, LOS ANGELES Class, and in-service VIRGINIA Class submarines. The scope shall include Concept Development and System Requirements Review, Design and Analysis Support, Interface Definition, Integration, Test and Evaluation, Obsolescence Investigation, Programmatic Support, and Fleet Technical Support.

New In-Service Submarine Class Platform Contract (cont.)

- SeaPort-e Task Order, Zone 1, Northeast
- Five (5) year Period of Performance
- Acquisition Strategy: TBD – Sources Sought
- Level of effort 310,000 hours; CPFF
- Other Direct Costs (ODC's) to be in the neighborhood of 10% of total cost
- Unique Personnel: TBD
- Unique Certifications: Deep Submergence Systems Scope of Certification (DSS-SOC) Certification per Note 5000 DSS-SOC
- Partial Follow-On to Current Code 25 Contracts: N00178-04-D-4122-N432, N00178-04-D-4018-N411, N00178-04-D-4042-N412, N00178-07-D-5126-N401, N00178-05-D-4455-N403
- Estimated Timeframe for RFP Release:
 - Fall 2015 / Winter 2016

New Virginia Class / Ohio Replacement Class Platform & Submarine Warfare Federated Tactical Systems (SWFTS) Contract

- Summary of Contract Scope:
 - 5 year Seaport service contract for platform engineering, system engineering, technical, test and evaluation (T&E), and programmatic services for the development, evaluation, modernization, and sustainment of the VIRGINIA Class and OHIO REPLACEMENT Class submarines. In addition, this contract will cover system engineering and T&E requirements for the SWFTS program. The scope shall include Concept Development and System Requirements Management and Review, Design and Analysis Support, Reliability and Supportability Analysis, Interface Definition, Integration, Test and Evaluation, Obsolescence Investigation, Programmatic Support, and Fleet Technical Support.

New Virginia Class / Ohio Replacement Class Platform & Submarine Warfare Federated Tactical Systems (SWFTS) Contract (cont.)

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- SeaPort-e Task Order, Zone 1, Northeast
- Five (5) year Period of Performance
- Acquisition Strategy: Unrestricted
- Level of effort 417,500 hours; CPFF
- Other Direct Costs (ODC's) to be in the neighborhood of 10% of total cost
- Unique Personnel: Systems Engineers; Test Engineers; Reliability/Availability/Maintainability (RAM) experts (knowledge of modeling with Tiger); Knowledge of VA/OR/SWFTS SE products/processes, requirements, and risk factors; networking and middleware (CORBA/AMQP) expertise
- Unique Certifications: TBD
- Partial Follow-On to Current Code 25 Contracts: N00178-04-D-4122-N432, N00178-04-D-4018-N411, N00178-04-D-4042-N412, N00178-07-D-5126-N401, N00178-05-D-4455-N403
- Estimated Timeframe for RFP Release:
 - Fall 2015 / Winter 2016

- Summary of Contract Scope:
 - 5 year Seaport service contract for systems engineering, integration, hardware and software engineering, test and evaluation (T&E), analysis, installation and test, in-service support, and technical/programmatic services for the development, evaluation, modernization, analysis and sustainment of Submarine Combat Control Systems including Tactical Control, Weapon Control, Payload Control and related subsystems, networks and capabilities. The scope shall include Concept Development, Requirements Development, Trade Studies, System Requirements Review, Design and Analysis Support, Interface Definition, Integration, Test and Evaluation, Obsolescence Investigation, Installation Support, Temporary Alteration and Ordnance Alteration Development and Support, Fleet Technical Support and Programmatic Support.

- SeaPort-e Task Order, Zone 1, Northeast
- Five (5) year Period of Performance
- Acquisition Strategy: TBD – Sources Sought
- Level of effort 400,000 hours; CPFF
- Other Direct Costs (ODC's) to be in the neighborhood of 18% of total cost
- Unique Personnel: SMEs in the areas of Combat Systems, Target Motion Analysis, Weapon Control Systems, Submarine Launcher System Interfaces, Tactical Control Systems, Fleet Support
- Unique Certifications: TBD
- Partial Follow-On to Current Code 25 Contracts: N00178-04-D-4122-N432, N00178-04-D-4018-N411, N00178-04-D-4042-N412, N00178-07-D-5126-N401, N00178-05-D-4455-N403
- Estimated Timeframe for RFP Release:
 - Fall 2015 / Winter 2016

New GCCS-M (Global Command and Control System – Maritime) Contract

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- Summary of Contract Scope:
 - 5 year Seaport service contract to provide development, integration, test, installation, upgrades, maintenance and programmatic services in support of GCCS-M and GCCS follow on systems for submarine platforms.
- SeaPort-e Task Order, Zone 1, Northeast
- Five (5) year Period of Performance
- Acquisition Strategy: TBD – Sources Sought
- Level of effort 125,000 hours; CPFF
- Other Direct Costs (ODC's) to be in the neighborhood of 25% of total cost
- Unique Personnel: Former Fire Control Technicians (FTs) with COMPOSE and GCCS-M Installation experience
- Unique Certifications: Top Secret Clearance
- Partial Follow-On to Current Code 25 Contracts: N00178-04-D-4018-N411
- Estimated Timeframe for RFP Release:
 - Fall 2015 / Winter 2016

New Information Assurance (IA) / Cyber Security Contract

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- Summary of Contract Scope:
 - 5 year Seaport service contract for Cyber Security and Information Assurance (IA) support for current and future tasking, including support for certification and accreditation, System Security Engineering and ‘getting ahead’ of cyber security. The scope shall include operations support including performance of certifications to qualify systems to cyber security standards, development and review of documentation, system engineering support including requirements development, design, test, as well as development of future requirements such as software standards. To perform this work, highly skilled and experienced technical, administrative services are required by the contractor. The contractor should have appropriate cyber security certifications to perform the work. Code 25 is responsible for cyber security tasking both within Division Newport and from multiple sponsors.

New Information Assurance (IA) / Cyber Security Contract (cont.)

25

- SeaPort-e Task Order, Zone 1, Northeast
- Five (5) year Period of Performance
- Acquisition Strategy: TBD – Sources Sought
- Level of effort 210,000 hours; CPFF
- Other Direct Costs (ODC's) to be in the neighborhood of 3% of total cost
- Unique Personnel: TBD
- Unique Certifications: A+, Security+, Network+, OS certifications (Windows, and/or Linux), CASP, CISSP, CCNA, CEH, CPT
- New Contract Effort (not partial follow-on to current Code 25 contracts)
- Estimated Timeframe for RFP Release:
 - Fall 2015 / Winter 2016

New Science & Technology (S&T) / Advanced Engineering Contract

- Summary of Contract Scope:
 - 5 year Seaport-e or D-Type indefinite delivery, indefinite quantity (IDIQ) service contract to provide engineering and computer science support in the concept design, proof-of-concept development and prototype integration in the areas of command & control of payloads & unmanned vehicles, state estimation, graphical user interface, human systems interface, modeling & simulation, cyber security, system & software architecture, system performance & reliability and training.

New Science & Technology (S&T) / Advanced Engineering Contract (cont.)

25

- Seaport-e or D-Type indefinite delivery, indefinite quantity (IDIQ) service contract
- Five (5) year Period of Performance
- Acquisition Strategy: TBD – Sources Sought
- Level of effort 50,000 hours; CPFF
- Other Direct Costs (ODC's) to be in the neighborhood of 0.5% of total cost
- Unique Personnel: Individuals with advanced degrees in engineering, mathematics, physics and computer science experienced in the prototype and development of S&T and advanced engineering articles
- Unique Certifications: Source selection will favor performers experienced with S&T and advanced engineering efforts in the areas of command & control of payloads & unmanned vehicles, state estimation, graphical user interface, human systems interface, modeling & simulation, cyber security, system & software architecture, system performance & reliability and training
- New Contract Effort (not partial follow-on to current Code 25 contracts)
- Estimated Timeframe for RFP Release:
 - Winter 2016 / Spring 2016