



Gold Coast Small Business Symposium

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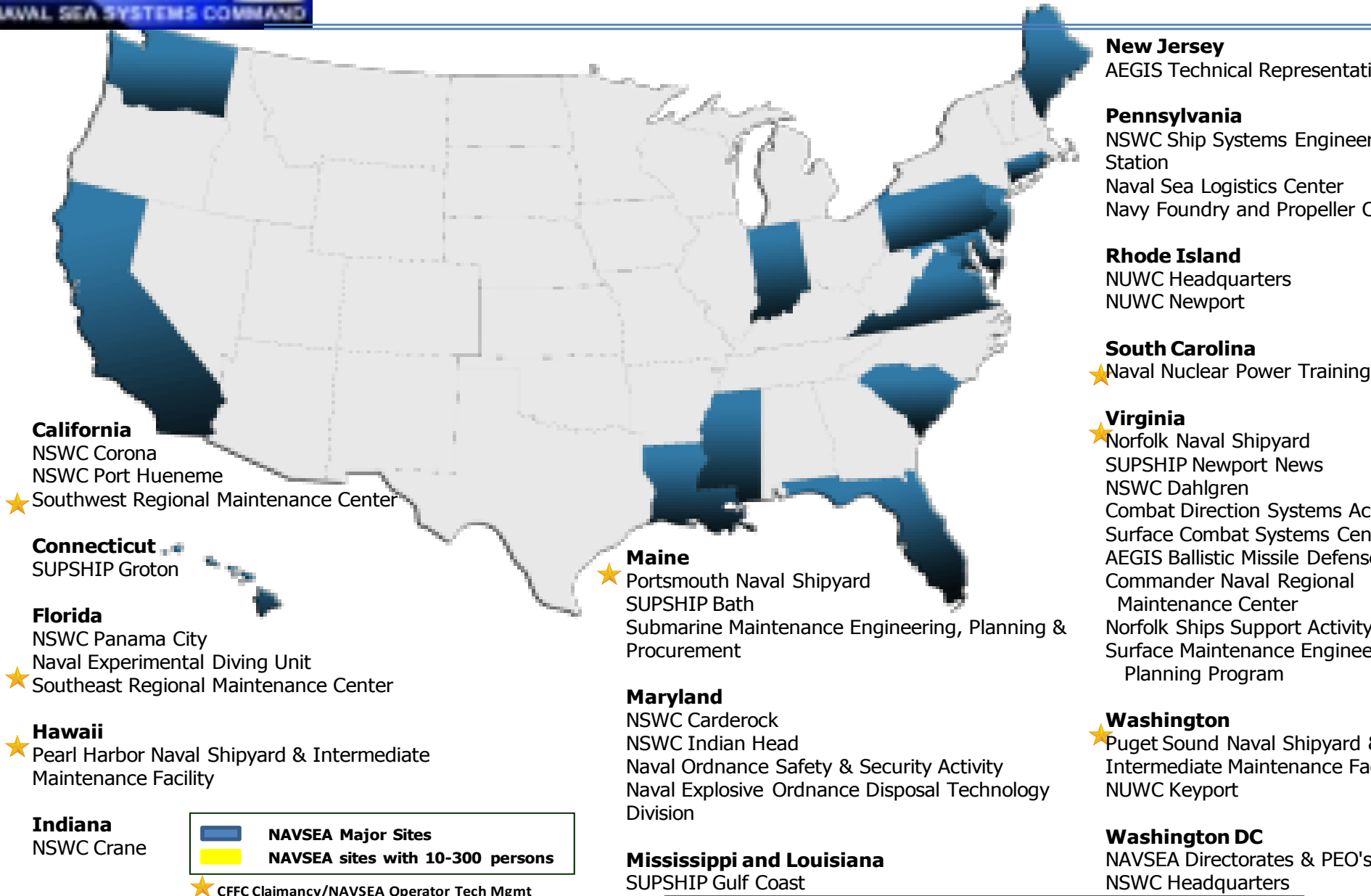
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NAVSEA is Located Across the United States

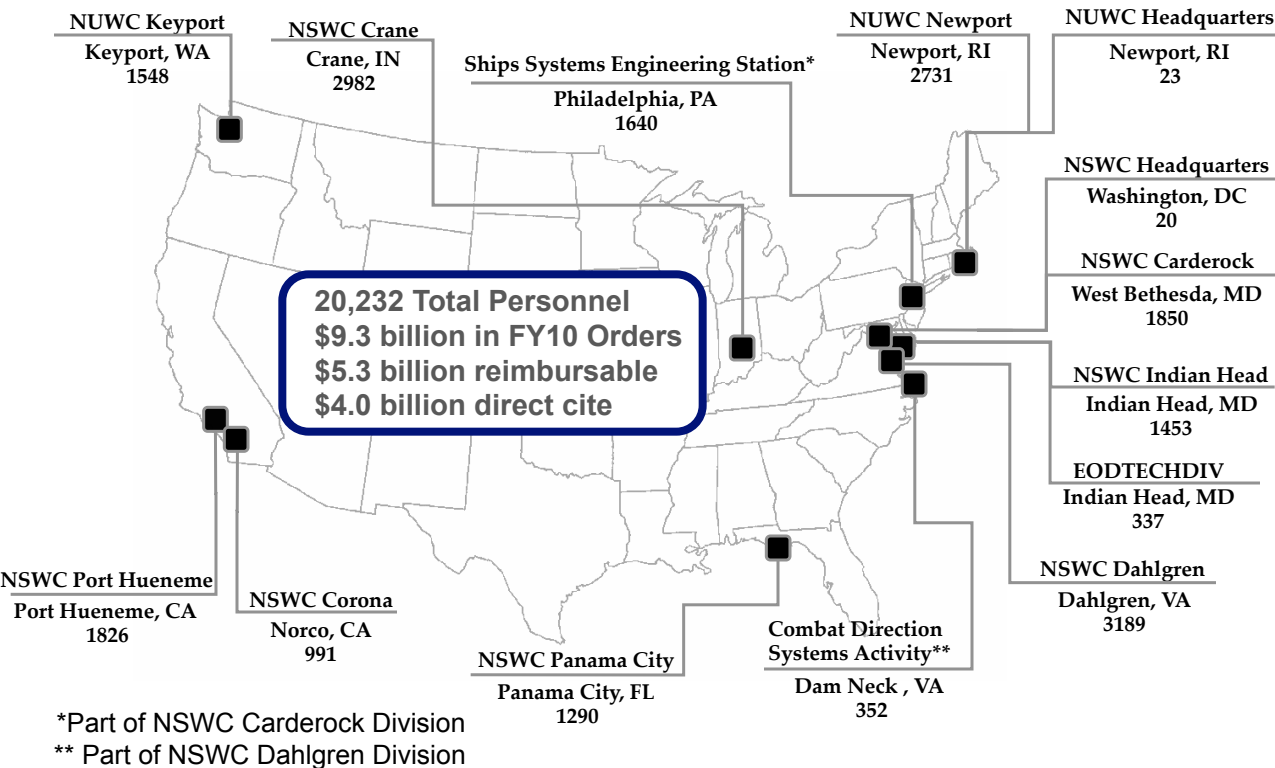


NAVSEA from 50,000 Feet

- NAVSEA is comprised of more than 58,000 civilian and military personnel in 38 activities located across the United States and Asia. Together, we build, buy and maintain ships, submarines and combat systems for the U.S. Navy.
- Accounting for nearly one-fifth of the Navy's budget, NAVSEA manages more than 150 acquisition programs.



NAVSEA Warfare Centers



- Provide research and development (R&D), test and evaluation (T&E) for the future Navy and in-service engineering and logistics support to the current Navy Fleet
- Business-based enterprise operating under the Navy Working Capital Fund
- Critical concentration of scientists, engineers and technicians (~14,500) with over 550 PhDs
- Unimpeded access to unique military facilities and technical capabilities
- Awarded 121 patents in FY10

Warfare Centers (WFCs) exist to:

- Understand the technical dimensions of military problems
- Liaison with industry and academia to define the best solutions
- Provide quality assurance for Navy Programs
- Provide lifecycle support for Navy ship and submarine systems



Products and Services Output

- In-Service solutions for Today's Fleet
- Technical Authority Advice and Decisions
- Interoperable Warfare Systems
- Innovation to provide technology solutions and facilitate technology transition to Tomorrow's Fleet

Key Takeaways

- Total Ownership Cost (TOC)
 - Competition
 - Innovation
 - Reduced Life Cycle Costs
- Open Architecture and Modularity.





NSWC Carderock – West Bethesda, MD NAVSSSES – Philadelphia, PA

Strategic Direction: To be the Navy's principle provider of Hull, Mechanical, and Electrical expertise and to provide Naval Architecture and Marine Engineering technical solutions for developing, building, and maintaining a dominant, ready and affordable Fleet. This is accomplished through research, development, test and evaluation, analysis, acquisition support, in-service engineering, logistics and integration of surface and undersea vehicles and associated systems.

Naval Ships Systems Engineering Station (NAVSSSES) complements NSWC Carderock Division capabilities and provides full spectrum S&E capabilities for surface and undersea vehicle machinery and for other ship systems.

Technical Capabilities:

- CD01: Ship and Submarine Design and Integration
- CD02: Ship and Submarine Acquisition Engineering
- CD03: Ship and Submarine System Concepts, Technologies and Processes
- CD04: Surface and Undersea Vehical Machinery Systems Integration (Phil.)
- CD05: Combatant Craft & Marine Corps Vehicles
- CD06: Unmanned Vehicles Naval Architecture and Marine Engineering
- CD07: Hull Forms and Fluid Dynamics
- CD08: Propulsors
- CD09: Surface & Undersea Vehicle Mechanical Power & Propulsion Systems (Phil.)
- CD10: Surface & Undersea Vehicle Electrical Power & Propulsion Systems (Phil.)
- CD11: Surface & Undersea Vehicle Auxiliary Machinery Systems (Phil.)
- CD12: Surface & Undersea Vehicle Hull, Deck, and Habitability Machinery Systems (Phil.)
- CD13: Surface & Undersea Vehicle Machinery Automation, Controls, Sensors and Network Systems (Phil.)
- CD14: Surface, Undersea, and Weapon Vehicle Materials
- CD15: Surface & Undersea Vehicle Structures
- CD16: Alternative Energy & Power Sources R&D
- CD17: Liquid Waste Management, Science and Systems
- CD18: Solid Waste, Hazardous Material, and Radiation Technology Management, Science and Systems
- CD19: Advanced Logistics Concepts and HM&E Life Cycle Logistics Support
- CD20: Surface, Undersea and USMC Vehicle Vulnerability Reduction and Protection
- CD21: Ship Recoverability and Damage Control
- CD22: Surface and Undersea Vehicle Underwater Signatures, Silencing Systems, and Susceptibility
- CD23: Surface and Undersea Vehicle Non-Acoustic Toplevel Signatures, Silencing Systems, and Susceptibility
- CD24: HM&E for Undersea Vehicle Sail Systems and Deployed Systems



NSWC Corona *Corona, CA*

Strategic Direction: To provide premier Independent assessment capability for the Navy and Department of Defense using rigorous, disciplined science and engineering processes to gauge warfighting capability of weapons and integrated combat systems by assessing system performance, readiness, quality, supportability, and the adequacy of training from unit to force level.

Technical Capabilities:

AC01: Warfare Systems Performance and Readiness

Assessment

AC02: Quality and Mission Assurance Assessment

AC03: Metrology, Test, and Monitoring Systems Assessment

AC04: Force Training Assessment

AC05: Weapons Systems Interface Assessment





NSWC Crane *Crane, IN*

Strategic Direction: To provide total lifecycle leadership utilizing best-in-class facilities and technical rigor in Electronic Warfare/ Information Operations, Strategic Missions and Special Missions.

Technical Capabilities:

CR01: Strategic Systems Hardware Engineering, AE, & Sustainment

CR03: Special Operations Hardware In-Service Engineer, Procurement & Sustainment

CR04: EW Systems RDT&E/Acquisition/Sustainment

CR05: Radar Component Sustainment

CR06: Energy & Power Source AE, ISE, T&E & Sustainment

CR07: Acoustic Sensors AE, ISE & Sustainment

CR08: Microwave Technologies RDT&E, AE & Sustainment

CR09: Microelectronic Technologies RDT&E, AE, & Sustainment

CR10: Infrared Countermeasures and Pyrotechnic RT&E and Sustainment

CR11: Defense Security Systems AE, ISE and Sustainment

CR12: Navy Electronics Depot

CR13: Electro-Optic, AE, ISE & Sustainment

CR14: Obsolescence Management



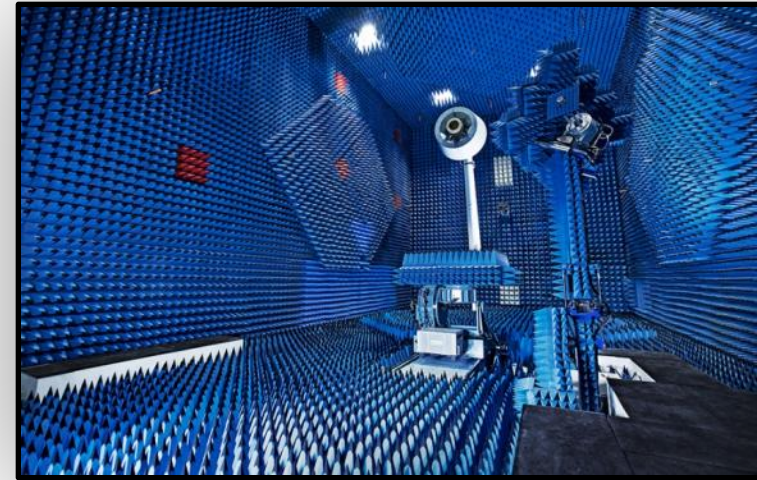


NSWC Dahlgren - *Dahlgren, VA* Combat Direction Systems Activity – *Dam Neck, VA*

Strategic Direction: To provide the full spectrum Science & Engineering (S&E) capabilities for surface ship weapons systems integration up to and including the force level, missile defense, strategic systems and related areas of Joint and Homeland defense. Combat Direction Support Activity (CDSA) will complement capabilities and provide S&E capability for Integrated Training, Force Integration and Interoperability, Integrated Combat Control Systems and Information Operations.

Technical Capabilities:

- DD01: Force & Surface Platform Level Warfare Systems Analysis & Modeling (DL)
- DD02: Weapon Systems Analysis, Effects, & Effectiveness (DL)
- DD03: Radar and Electro-Optic Systems RDT&E (DL)
- DD04: Surface Warfare Systems Engineering & Integration RDT&E
- DD05: Surface Combat Systems Engineering & Integration RDT&E (DL)
- DD06: Surface Combat Control Systems S&T, RDT&E (DL)
- DD07: Surface Conventional Weapon Control Systems RDT&E (DL)
- DD08: Surface Warfare System and Force Level Certification/IV&V
- DD09: Human Systems Integration Science and Engineering
- DD10: Missile Systems Integration (DL)
- DD11: Surface Conventional and Electromagnetic Gun Systems RDT&E (DL)
- DD12: Directed Energy Systems RDT&E (DL)
- DD13: Weaponization of Surface & Air Unmanned Systems (DL)
- DD14: Marine Corps and Other Weaponry Systems RDT&E (DL)
- DD15: Strategic Mission Planning, Targeting, and Fire Control Systems (DL)
- DD16: Re-Entry Systems (DL)
- DD17: Surface Electronic Warfare Systems Architecture and Combat Systems Integration RDT&E
- DD18: Surface Warfare Systems Safety (DL)
- DD19: Surface Warfare Electromagnetic Environmental Effects (DL)
- DD20: Chemical, Biological and Radiological Warfare Defense Systems RDT&E
- DD21: National Response Missions, Including Homeland Security and Defense (DL)
- DD22: Physical & Non-Physical Vulnerability Analysis (DL)
- DD23: Force Level Warfare Systems Engineering and Integration
- DD24: Force Level Warfare Systems Interoperability Engineering
- DD27: Tactical Common Data Communications Systems Integration and Interoperability (DN)
- DD35: Integrated Surface Combat Control Systems Support (DN)
- DD36: Integrated Training Systems (DN)
- DD37: Radar Distribution Systems (DN)
- DD38: Joint Command and Control Systems Integration and Architecture Development (DN)



Strategic Direction: To be globally recognized as the leader of Department of Defense initiatives to proactively identify and counter future threats to Explosive Ordnance Disposal missions by applying innovative technology, developing expert knowledge, and participating fully in the technical intelligence process.



Technical Capabilities:

ED01: Counter-Improvised Explosive Device (IED) Technology

ED02: Counter-Improvised Explosive Device (IED) Information

ED03: Explosive Ordnance Disposal (EOD) Technology

ED04: Explosive Ordnance Disposal (EOD) Information

ED05: Counter Radio Controlled IED Electronic Warfare (CREW) Technology

ED06: Counter Radio Controlled IED Electronic Warfare (CREW) Information



NSWC Indian Head *Indian Head, MD*

Strategic Direction: To provide full spectrum S&E and industrial capabilities for energetic systems and energetic materials from concept through scale-up to limited production and operational deployment for Naval, joint, and homeland defense applications.

Technical Capabilities:

- IH01: Energetic Systems RDT&E, AE, ISE and Sustainment
- IH02: Energetic Systems and Material Scale-up, Manufacture and Manufacturing Technology
- IH03: Cartridge Actuated Devices, Cutters, Sounding and Specialty Devices RDT&E, AE, ISE, Sustainment, and Manufacturing
- IH04: Weapon Simulators, Trainers, Training, Test and Diagnostic Equipment RDT&E, AE, ISE, and Sustainment
- IH05: Energetic Safety, Environmental Technology, Logistics, and PHST (Packaging/Handling / Storage and Transportation) RDT&E, AE, ISE and Sustainment
- IH06: Conventional Ammunition Engineering and Sustainment
- IH07: Gun Systems ISE, T&E and ILS





NSWC Panama City

Panama City, FL

Strategic Direction: To provide full spectrum S&E capabilities for mine warfare systems, mines, special warfare systems, diving and life support systems and other warfare systems used in the littorals.

Technical Capabilities:

PC20: Chemical & Biological Warfare Individual Protection Systems

PC21: Expeditionary Coastal & Maritime Security Systems

Engineering & Integration

PC25: Air Cushion Vehicle Systems

PC26: Expeditionary Maneuver Warfare Systems Engineering and Integration

PC27: Special Warfare Maritime Mobility, Mission Systems & Mission Support Equipment

PC28: MCM Detect & Engage Systems, Modular Mission Packaging, and Platform Integration & Handling

PC29: Littoral Mission Systems Integration and Modular Mission Packages Certification

PC30: Unmanned Systems Engineering & Integration, Autonomous Operations, Joint Interoperability and Common Control

PC31: Mine Sensor & Target Detection Technology, Mine Delivery Platform Integration and Minefield Architecture

PC33: Diving & Diving Support Systems

PC34: Surface Life Support Systems for Extreme Environments





NSWC Port Hueneme

Port Hueneme, CA

Strategic Direction: To provide T&E, in-service engineering & logistics and integration capabilities for surface ship weapons, combat and warfare systems and be the primary interface with the surface force for the in-service work of the Warfare Center (WFC).

Technical Capabilities:

PH01: Strike Force Interoperability and Theater Warfare Systems ISE, T&E, and ILS

PH02: Surface Combat Systems ISE, T&E, and ILS

PH03: Surface Weapon Systems ISE, T&E, and ILS

PH04: Underway Replenishment Systems ISE, RDT&E, and ILS

PH06: Surface Missile Systems ISE, T&E, and ILS

PH07: Surface Missile Launcher Systems ISE, T&E, and ILS

PH08: Radar Systems ISE, T&E, and ILS

PH09: Directed Energy Systems ISE, T&E, and ILS

