



SUMMARY

- Complete and proven High Fidelity Environment capable of supporting multiple DoD Programs
- IWSL supports a diverse set of DoD Weapon and Combat Systems
- Tremendous capability to extend to other Weapon System Testing and Joint Testing Environments
- Highly experienced team available for design of experiment support for all levels and stages of testing



INTEGRATED WARFARE SYSTEMS LABORATORY



IWSL

INTEGRATED WARFARE SYSTEMS
LABORATORY

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NSWCDD/MP-10/123

Statement A. Approved for public release; distribution is unlimited.

NAVAL SURFACE WARFARE CENTER
DAHLGREN DIVISION
DAHLGREN • DAM NECK

NAVAL SEA SYSTEMS COMMAND



IWSL

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OUR MISSION

IWSL's Mission is to provide a High Fidelity Engineering environment for Fleet support and DoD Programs that continually transforms to meet the needs of the 21st century warfighter.

"We Face the Fleet"

- Aegis/Aegis Ballistic Missile Defense (BMD) In-Service Fleet Support
- Aegis/Aegis BMD Event Reconstruction
- Multi-Platform Interoperability Tests
- Interoperability Certification of Lk-11, Link-16, and Tactical Digital Data-Links
- Naval Battlegroup Interoperability Testing
- MDA Missile Defense System Exerciser Testing
- Aegis/Aegis BMD Certification Testing
- Production and Loadcycle of Aegis Weapon System (AWS) and Aegis BMD Computer Programs
- Maintain all Aegis and Aegis BMD Fleet Media
- Engineering Initiatives and cost avoidance studies.

• *Programs Supported*

- Aegis
- Aegis BMD
- DDG-1000
- Aegis Combat Elements
- LCS
- Marine Corps
- Joint Testing

WHAT WE OFFER

- *IWSL has (7) Aegis and Aegis BMD tactical labs that can replicate 82 hulls*
 - IWSL can reconfigure to replicate any ship within 20 minutes
 - IWSL has a controllable and repeatable environment
- *IWSL has a trained and specialized staff to support our users*
 - Aegis Combat System (ACS) and Aegis Weapon System (AWS) System Maintenance Engineers
 - Simulation Operations Engineers
 - Network Engineers
 - Commercial Systems Engineers
 - Simulation Hardware and Software Developers
 - Information Technology Support
 - Highly Experienced Team of Program Managers, Senior Engineers, Analysts, Software Developers and Testers for Cradle-to-Grave Engineering Support

WHAT WE OFFER *(Continued)*

- *Networks and Communication Capabilities*
 - Unclassified Research, Development, Testing and Engineering Network
 - Classified Research, Development, Testing, and Engineering Network
 - Secret Defense Research and Engineering Network (SDREN)
 - Joint Mission Environment Test Capability Network (JMETC)
 - Distributed Engineering Plant (DEP)
 - Fiber-Optic Links to other NSWCDD Facilities via the Tactical Protective Distribution System (TPDS)
 - Missile Defense Agency(MDA) Classified Network (MDA C-Net)
- *High Fidelity DoD Engineering Environment*
 - Technology Integration and Assessment Capability (TIAC)
 - An unbiased Ground Truth environment
 - A facilitator for technology evaluation and flow into Acquisition
 - A key enabler for both Navy and Marine Corps objective architecture
 - Navy after Next Lab