

Regional Defense Partnership



**Naval Surface Warfare Center
Port Hueneme Division
February 7, 2024**

Wartime Readiness- 8 Lines of Effort



- **LOE 1: C3 infrastructure in place / ready**
- **LOE 2: Full accounting / visibility of all combat systems hardware**
 - Battle spares and known conditions
- **LOE 3: Known accurate combat systems configuration on each deployable ship**
 - Every ship is different
- **LOE 4: Underway Replenishment (UNREP) Team assessments complete**
- **LOE 5: All PHD entities ready to support**
 - Navy Det WSMR / Va Beach / Mayport / San Diego / Seal Beach / others
- **LOE 6: Policies / procedures / authorities documented and in place**
- **LOE 7: PHD personnel battle stations known**
- **LOE 8: Full-time riders off ships (ARMS & ADR staging known and in place)**

329

DAYS TO GO
PHD WARTIME READINESS
(January 2025)

Port Loading and Infrastructure Updates



Command infrastructure to support U.S. Navy platforms:

- DDG-1000 shore services
- Wharf power upgrades
- Unmanned designated wharfs
- Unmanned Operations Center Active/In Service

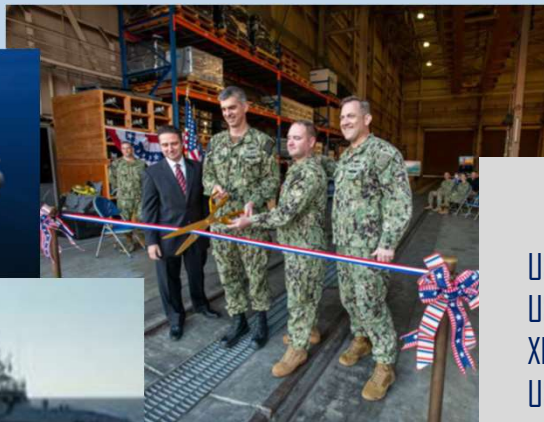
CY 2024 CSAT Schedule

USS FRANK E PETERSEN JR (DDG 121)
USS SAVANNAH (LCS 28)
USS OKANE (DDG 77)
USS CANBERRA (LCS 30)
USS SPRUANCE (DDG 111)
USS PREBLE (DDG 88)
USS GRIDLEY (DDG 101)
USS MICHAEL MURPHY (DDG 112)
USS STOCKDALE (DDG 106)
USS OMAHA (LCS 12)

USS SANTA BARBARA (LCS 32)
USS LENA SUTCLIFFE HIGBEE (DDG 123)
USS WAYNE E MEYER (DDG 108)
USS CHOSIN (CG 65)
USS JOHN PAUL JONES (DDG 53)
USS CURTIS WILBUR (DDG 54)
USS PRINCETON (CG 59)
USS PORTLAND (LPD 27)
USS SAMPSON (DDG 102)

Unmanned Schedule

USV Ranger (in port)
USV Mariner (in port)
XLUUV XLD prototype (June)
USV Vanguard (Q2 FY25)



Lab Spaces & Facility Improvements



- 2 MINCON lab designs nearly complete for future shelf-ready plans.
- \$18M has pivoted to modular secure lab means to meet ICD-750 requirements.
- Scheduling 2 future lab growth 100% designs for FY26 / 27 execution.
- NSWC PHD Turnstile to Silver Strand-equipment has been ordered and ITPR for required programs submitted.

Self Defense Test Ship



The unmanned Self Defense Test Ship (SDTS) provides a safe environment to conduct realistic live fire operational testing of short-range defensive weapons systems.

Self Defense Test Ship, EDD964 ex-USS Paul F. Foster, will go into a maintenance period starting **April 2024** and ending **December 2024** at the San Diego shipyard with Southwest Regional Maintenance Center (SWRMC) partnership to **extend the life of the SDTS through FY29.**



NSWC PHD Follow on Test Ship case study was completed in FY23 to identify potential platforms (T-EPF, CG, DDG, LSD, LCS, purpose built) options to replace the SDTS upon completion of TEMP 1910 testing (FY29). Case Study identified **DDG** as the best alternative platform.

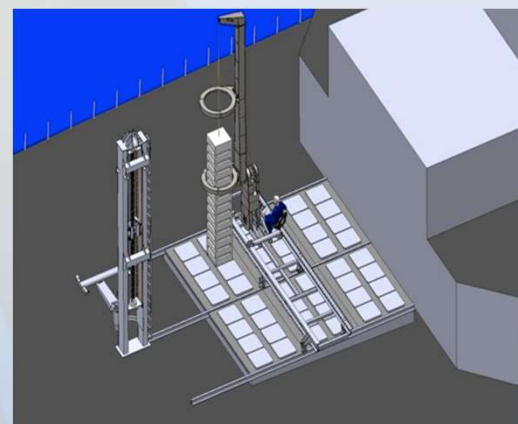
VLS Re-Arming At Sea



Transferable Rearming Mechanism (TRAM)

- Recent SECNAV prioritization in rearming at-sea capability brought increased effort and resources to the project
- Land based DEMO scheduled to occur JUN 2024 at PHD
- At-sea DEMO scheduled to occur AUG 2024
- Completion of these DEMOs show proof of concept
- Substantial engineering required to achieve full VLS Rearm at-sea capability

The Rearming Sequence



Transfer TRAM



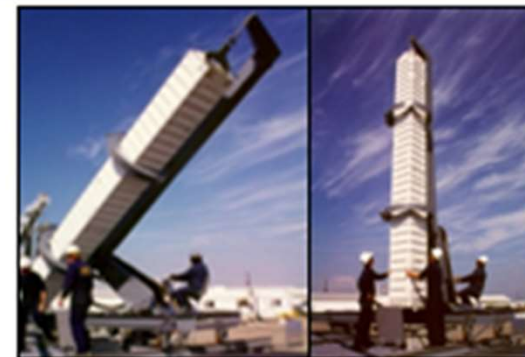
**Swing TRAM onto
Combatant Rails**



**Canister Receipt
at Station**

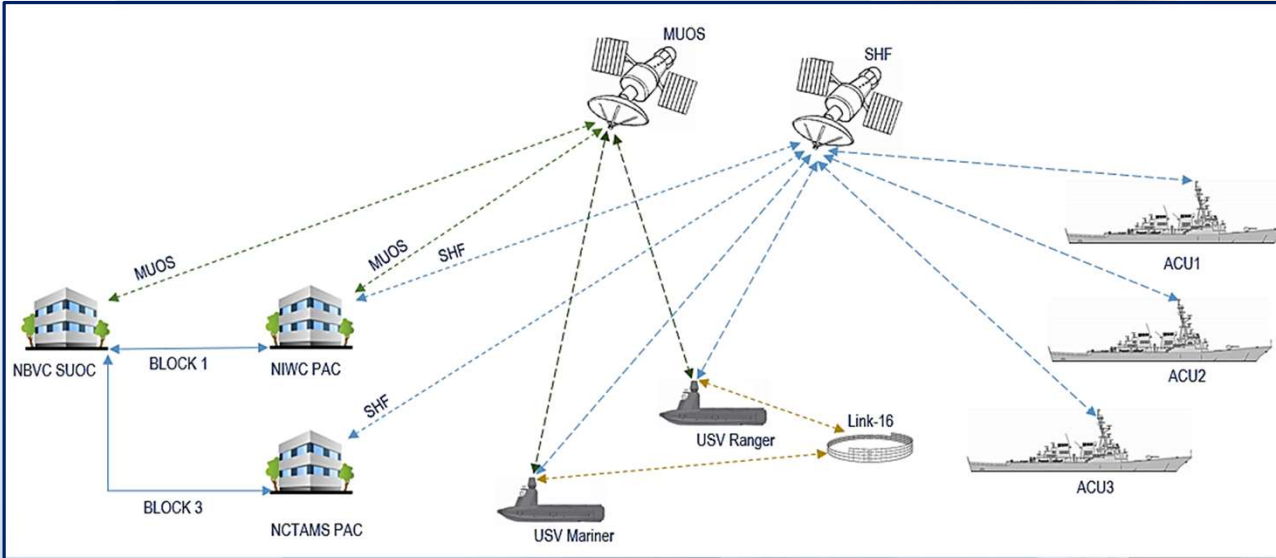


**Positioning Canister
for Reload**



Canister Strikedown

USV Unmanned Operation Center (UOC)



USV Control:

- Common Control System (CCS)

Payload Control:

- Mission-specific payloads

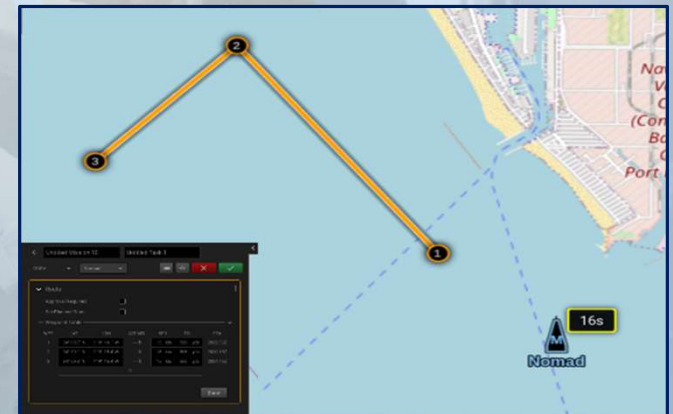
Intelligence, Surveillance & Reconnaissance (ICR):

- Intelligence Carry-on Program

Communications:

- SIPR/NIPR Workstations
- Chat Capabilities
- Voice COMMs (Secure and Unclassified)

The UOC provides the capability to effectively operate and test USVs



Industry and Academia

Academia

- Quarterly Meetings
- Annual Educators Tours – **Next tour Feb. 29!**
- Education Partnership Agreements (EPAs)
- STEM Outreach



Meaningful and deliberate engagement with Industry and Academia for capability development, recruitment and transition



Industry

- Fathomwerx Laboratory
- ANTX-Coastal Trident
- Repair Technology Exercises (REPTX)
- Cooperative Research and Development Agreements
- Partnership Intermediary Agreements





Operational Fleet Support 24/7 Watch



Tip of the spear for fleet support

Only dedicated 24/7 Watch across NAVSEA enterprise

- ✓ **3,158 support requests since 2012**
- ✓ **32 direct contacts/month (average)**
 - ✓ **12 are urgent requests**
- ✓ **500 CASREPS/month (average)**
- ✓ Sends out an average **80 Hi Viz CASREP** notifications/month



Power Outage Accommodations

- Backup generator in Building 1387 has allowed the Watch to remain up and running during planned maintenance outages this last year
- Building 1388 has power when base loses power. Watch can move to Tomahawk conference room if 1387 is down.

Challenges We Face



- Affordable housing to influence new employee retention
- Leveraging relationships with academia and industry while maximizing efforts among all Navy partners (NBVC and Warfare Centers)

How can RDP support our efforts?

How does RDP report the outcomes of their efforts to assist academia, industry, military?

Questions?



PORT HUENEME ★
PROUD