Department of the Navy SBIR/STTR Transition Program

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NAVSEA #2024-0335

Topic # N102-144
Composite Missile Hatches System for Surface Ships
Pacific Engineering, Inc

WHO

SYSCOM: NAVSEA

Sponsoring Program: PEO USC, PMS 420

Transition Target: Littoral Combat Ship (LCS)

TPOC: (540) 653-3639

Other Transition Opportunities: Programs that have hatches and launcher systems are all potential areas for this technology (i.e., DDG-51 Arleigh Burke-class, DDG-1000 Zumwalt-class, FFG-62 Constellation-class, etc.). Surface, subsurface, and mobile launch platforms are all candidates.

Notes: LCS SSMM launch of Hellfire missile from LCS 8 (USS Montgomery). (Source: U.S. Navy photo by Lt.j.g. Samuel Hardgrove)

U.S. Navy photo, https://www.surfpac.navy.mil/Media/News/Article/3033364/lcs-successfully-completes-first-land-attack-missile-exercise/

WHAT

Operational Need and Improvement: A composite hatch offers improvement to the traditional hatch in terms of weight savings, less corrosion, and longer service life.

Specifications Required: Maintain form/fit/function of the hatch.

Technology Developed: A preliminary design for the SSMM hatch

Warfighter Value: Composite materials offer several advantages over other structural materials including reduced weight, better mechanical performance, longer service life, lower sustainment costs, and corrosion resistance.

WHEN

Contract Number: N00024-24-C-S004 **Ending on:** Nov 16, 2024

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Preliminary design for SSMM hatch	Low	Completed design	5	TBD

HOW

Projected Business Model: PEI has the in-house capability to manufacture light weight composite components for the SSMM hatch and transition them to the fleet.

Company Objectives: Provide alternative engineering solutions that solve supply chain and industrial base challenges, reduce weight, and improve sustainment costs for defense components while simultaneously meeting all requirements.

Potential Commercial Applications: Corrosion resistance and weight savings for components can be applied to numerous commercial applications; such as mobile medical PODS, long haul trailers, and automotive parts.

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