

WHO

SYSCOM: SSP

Sponsoring Program: SPC3

Transition Target: Virginia and SSN-X-class submarines. Zumwalt-class destroyers.

TPOC: SSP.SBIR@ssp.navy.mil

Other Transition Opportunities: This technology can be useful in other launcher technologies on surface and sub-surface platforms.

Notes: None.



Source: Lockheed Martin
(<https://www.navalnews.com/naval-news/2022/05/first-artwork-of-hypersonic-missiles-on-zumwalt-class-destroyers/>)

WHAT

Operational Need and Improvement: The primary goal of the Small Business Innovative Research (SBIR) Phase II is to provide an alternative material and manufacturing solution to Advanced Payload Module (APM) launcher components.

Specifications Required: As provided by the SPC program office.

Technology Developed: A feasibility study showing how composite technology can be utilized to meet the requirements of multiple launcher components.

Warfighter Value: Transitioning non-metallic structural composite components into weapons systems will lower the maintenance time and reduce sustainment costs. Increasing the defense industrial suppliers base for critical structural components will add to our Nation's security.

WHEN

Contract Number: N68335-22-C-0297 **Ending on:** May 31, 2023

| Milestone | Risk Level | Measure of Success | Ending TRL | Date |
|-------------------|------------|--------------------------------|------------|--------------|
| Feasibility Study | Medium | A completed feasibility study. | 3 | 3rd QTR FY23 |

HOW

Projected Business Model: PEI has the in-house capability to manufacture light weight composite components for the APM and transition them to the fleet. PEI will work with prime integrators for insertion into various programs of record.

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.