

WHO

**SYSCOM:** NAVSEA  
**Sponsoring Program:** NAVSEA  
**Transition Target:** PMS 415  
**TPOC:** (401) 832-4758  
**Other Transition Opportunities:**  
  
**Notes:**



WHAT

**Operational Need and Improvement:** Triton is developing a Variable Speed External Launch System (VSELS) to reduce the energy and radiated noise from the launching of externally stowed devices.

**Specifications Required:** The Navy is seeking a launch system that provides a 20% reduction in maximum launch energy while still achieving a safe separation exit velocity. The new system will also provide a 30% reduction in radiated noise levels during launch.

**Technology Developed:** The VSELS provides the appropriate launch energetics to best match the operating conditions of the platform and minimize radiated noise.

**Warfighter Value:** The reduction in launch energetics will allow the Navy to launch more sophisticated devices from external stows. The reduction in radiated noise will enable different missions from externally stowed payloads.

WHEN

**Contract Number:** N68335-21-C-0145      **Ending on:** Jan 15, 2022

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Testing with Legacy GG and VSELS	Low	Quantify reduction in launch energetics and radiated noise in head to head comparison.	4	1st QTR FY24
Underwater testing with VSELS	Low	Underwater launch testing of VSELS at relevant depths recording launch energetics and radiated noise.	5	TBD

HOW

**Projected Business Model:** TBD

**Company Objectives:** During the Phase II Triton will continue to evaluate potential manufacturing partners and strategies as well as the accompanying strategy for qualification of future manufacturing partners.

**Potential Commercial Applications:**