

Navy SBIR/STTR Success



► Firm:

**Triton
Systems, Inc.**
200 Turnpike Road
Chelmsford, MA
01824

► Topic:

N02-207/2

► SBIR

**Investment
:\$524K**

► Project

**Revenue:
\$4.6M***

► SYSCOM:

ONR

► Published:

2011*



Title: Fire Retardant Blast Mitigation for Sea Vessels



Unprotected Walls Can Collapse and Send Dangerous Debris into Building



Walls with Protective Fire and Blast Coating Deflect, but Do Not Collapse

"The technology provides tremendous potential to help protect Navy personnel and equipment against fragmentation in the event of a targeted explosion aimed at a surface vessel."

About the Technology:

- The purpose of this project was to develop and demonstrate a fire and blast mitigation system to protect Navy ship structures.
- Triton Systems Blast mitigation technology provides force and infrastructure protection by preventing fragmentation and wall collapse.
- The blast mitigation technology incorporates fire retardance that is: non halogenated, environmentally friendly, non volatile, non migrating (does not migrate out of host plastic), highly flame retardant and melt processable, and requires minimal change to the mechanical properties of its host plastic.
- Extensive testing completed in Phase II proved success with single material solutions, but also showed that a combination of materials provided better reduction in heat and smoke generation, and increased the time to peak heat release.*
- This blast mitigation technology has transitioned to both Air Force and Department of Homeland Security for applications requiring critical asset protection against blast threats.

* - Updated in 2025