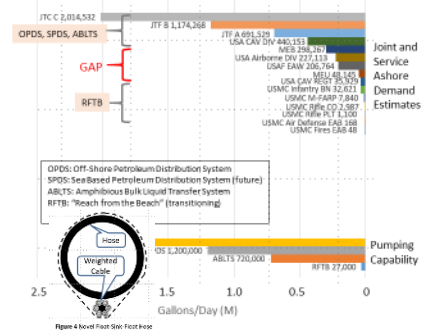




Petroleum Undersea Sustainment Hose

Project Summary: The Petroleum Undersea Sustainment Hose (PUSH) concept will address critical needs for supplying fuel for the Joint Force ashore. PUSH is a portable kit composed of a hose carousel, linear pipe engine, steel wire rope and high density polyethylene (HDPE) pipe installed on vessels of opportunity that enable over-the-shore fuel operations.



- Benefit:** Important, non-quantifiable benefits of the PUSH system include:
- Less target worthy and more capable of being deployed in high threat areas, increasing operation availability and support.
 - HDPE can be towed into theatre, deployed to several sites in one transit evolution.
 - HDPE can be pre-deployed (submerged) resulting in a lower profile, reducing enemy detection, minimizing exposure to troops in contested environments.
 - Submergence capability allows the seaway to be shared with mission-critical warfighter traffic and reduces fuel hose vulnerabilities to weather, collisions, and sabotage.

Duration of project: FY22 – FY24

Participants: NSWC Carderock (OPLOG R&D), USMC E20, Army CCDC-Pacific, Penn State ARL

Project advocacy (funding or otherwise): Military Sea Lift Command; Naval Surface Warfare Center, Carderock Division