

PROBLEM

- Marine environments extensively contaminated with unexploded and discarded military munitions
- Blow in place detonation and munitions removal in marine environments may cause extensive damage and safety hazards to marine and human life

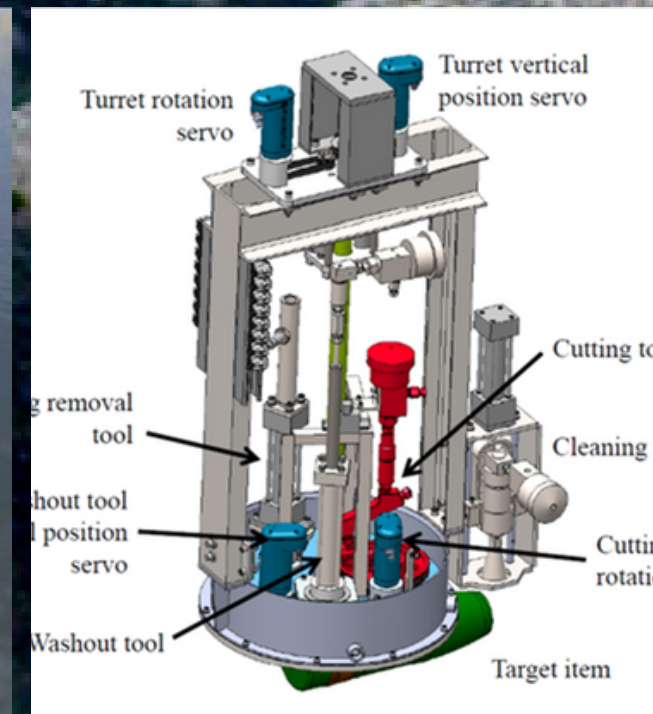
SOLUTION

- First waterjet cut and capture demilitarization technology using inert surrogate munitions
- Technology for shallow water demilitarization of conventional munitions in situ provides improved safety and minimal disturbance to marine environment
- Demonstration/Validation of enhanced capability integrated waterjet cut and capture technology for demilitarizing deep water conventional munitions in-situ with minimal disturbance to marine environments

IMPACT

- New technology minimizes explosive and constituent leakage risks to the public and collateral damage to the underwater environment

HIGH PRESSURE WATERJET TECHNOLOGY





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APPLICATIONS

- As past successful applications of waterjet technology, Gradient Technology, Inc.
- Demilitarized ~250K Explosive D projectiles at the B105 NSA-Crane, Indiana, facility
- Assisted developing the MLRS Rocket Motor waterjet demilitarization initiative at Redstone Arsenal, Alabama
- Installed, commissioned and transitioned a high-pressure waterjet demilitarization facility at Hawthorne Army Depot, Nevada
- Future potential clients and end-users for demilitarization conventional munitions using waterjet cut and capture technology: DoD, regulatory agencies and commercial underwater munitions remediation companies

STATUS

- Product development status: A prototype waterjet cut and capture system successfully performed cutting a hole in the side of an underwater surrogate munition in a deep water tank and in a shallow water marine environment beside a Naval pier
- Estimated 4QFY22 technology transition to Army and DoD

BENEFITS

- Underwater waterjet cut and capture demilitarization of UXO and discarded munitions in situ and the capture of the munition constituent contents will minimize explosive risks to the public and collateral damage to the marine environment