Sustainable Technology Evaluation and Demonstration (STED) Program

Biobased CLP Demonstration

Technology Description

Biobased Cleaner, Lubricant, and Preservative (CLP) for weapons and weapons systems qualified to MIL-PRF-63460G and listed on Qualified Products List (QPL).

Potential Impact

- Improve weapon operation and reduce malfunctions.
- Improve weapon lubrication and cleaning performance.
  - – Weapons stay lubricated longer and require less CLP per application - amount of CLP used and frequency of lubrication reduced by 35 to 70%.
  - – Improve carbon removal and decrease buildup - cleaning time reduced by 30 to 70%.
  - – Waste generation from cleaning processes reduced by 30%.
- Implementing biobased CLP could potentially save DoW $1.74M/yr due to usage reduction.
- Reduce smoke – tactical advantage and operator health benefit.
- Low odor – improved cleaning room environment and operator health benefit.
- Increase confidence in weapon reliability.

Benefits

- Improves cleaning and operation.
- Replaces petroleum-based CLP currently used at installations.
- U.S. Department of Agriculture (USDA) BioPreferred Certified Product.

Demonstration Sites

- Fort Jackson
- Fort Benning
- Fort Irwin
- ANAD
- JBLM
- Edwards AFB
- NASA WSTF & AFRC
- MCB Quantico
- MCB Camp Pendleton
- MCRD Parris Island
- JEBLC-FS
- NSWC Crane
- NSW, Camp Billy Machen
- NSW, Camp Atterbury
- Robinson Maneuver Training Center
- DHS ICE, Office of Training and Tactical Programs

MCB Quantico

For additional information please contact:

- DoW STED Program email

Related information available on the Department's website