



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 DoD \$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.

For additional information please contact:

- osd.mc-alex.ousd-a-s.mesg.dod-sted-program-mbx@mail.mil
- Department of Defense (DoD) Sustainable Products Center (SPC):
<https://www.denix.osd.mil/spc/index.html>

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 Moore
- Fort Irwin
- ANAD
- JBLM
- Edwards AFB
- NASA WSTF & AFRC
- MCB Quantico
- MCB Camp Pendleton
- NSWC Crane
- NSW, Camp Billy Machen
- NSW, Camp Atterbury



MCB Quantico

Related articles and Marine Corps video at:

<https://www.defense.gov/> and [SERDP-ESTCP](#)