



# 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](mailto: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 Benning
- 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](#)