



Technology Description

Reusable durable light-emitting diode (LED) alternatives to single-use chemiluminescent (chem) lights; operate on demand and provide additional functionality.

Potential Impact

- Improve operational performance and functionality (brightness, directional/focused light, durability, on/off switch).
- Lifecycle cost savings: replacing 20% of disposable chem lights used by DoD with reusable LED light systems could save DoD approximately \$1.9M/yr and reduce chem light transportation, storage, and disposal by approximately 86.4K lb/yr.
 - DoD procures approximately 7.9 million chem lights/yr (\$11.57M and 432K pounds).
 - One reusable LED light is equivalent to 25 to 600 disposable chem lights (depending on chem light type).

Demonstration Sites

- JBLM
- MCMWTC
- MCAGCC Twentynine Palms
- MCB Quantico

For additional information please contact:

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

- NAVAIR AIRWorks
 - NSWC Crane
 - MCAS Yuma

Benefits

- Improves performance and functionality.
- Reduces waste.
- Decreases load weight and logistical burden by eliminating need to carry multiple chem lights.
- Longer shelf-life than chem lights.



Preparing for Night Shoot MCB Quantico Standard Chem Light (Left); LED Light (Right)