Sustainable Technology Evaluation and Demonstration (STED) Program

Biobased Sorbents Demonstration

Technology Description

Biobased granular loose sorbents, pillows, socks, and recycled fiber pads for absorbing automotive and industrial fluids such as engine oil and hydraulic fluids.

Potential Impact

- Reduce quantity of sorbent needed for cleanup.
  - 60% cost reduction over the current method of oil spill cleanup.
- Reduce waste generation (use less – biobased sorbent is lighter and more absorbent).
- Biobased granular sorbents reduce occupational health risks from exposure to carcinogenic silica dust in clay-based sorbents.
- If implemented DoD wide, biobased sorbents could potentially save DoD $6.1M/year.

Benefits

- Improves performance.
- Alternative to petroleum-based polypropylene pads and wipes.
- USDA BioPreferred Certified Product manufactured in USA from renewable and recycled materials.

Demonstration Sites

- ANAD
- Redstone Arsenal
- Ft. Moore
- Edwards AFB
- Ft. Irwin
- JBLM
- NASA AFRC
- CCAD
- MCLB Barstow
- NASCC
- FBI TEVOC

Fort Moore Fire and Emergency Services

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