

The purpose of the Sustainability/Logistics – Basing Science and Technology Objective – Demonstration (STO-D) is to develop and integrate technologies along with non-materiel solutions that demonstrate an optimized integrated approach to reducing sustainment requirements for small contingency base operations via a suite of capabilities that reduce the need to deliver water and fuel to the base and the burden of having to collect, manage, and dispose of solid and liquid waste. The Integrated capability solution sets demonstrated will reduce power requirements to environmentally condition habitation spaces (heat and cool); increase power sourcing efficiency via more effective power generation and management; increase water use efficiency via water sourcing, recycling, repurposing, and management; reduce creation of solid and liquid waste products and optimize waste management; and increase waste disposal efficiency via energy conversion and waste mitigation strategies. This STO-D will hold multiple operationally relevant integrated demonstrations in FY15 and FY16. A separate industry comparative demonstration to showcase potential commercial solutions will be held in FY15. Finally a capstone integrated demonstration is being planned along with acquisition partners for FY17. One of the goals for all the demonstrations is to showcase technologies with greatest impact to base camps with potential for transition at TRL 6 to Programs of Record. REF: extracted from PAO# #U14-472

