

Technical Services facts

Component Services Capabilities

The White Sands Test Facility (WSTF) maintains a full-service facility for precision cleaning, repair, reassembly, and functional testing of fluid components.

Precision Cleaning Facility

- Chemical, mechanical, and ultrasonic cleaning of metals, elastomers, and composites
- Class 100 clean rooms for precision cleaning and packaging of items to a verifiable level of cleanliness up to 50A for high pressure oxygen systems
- A fully enclosed cleaning high bay used for cleaning large vessels, manifolds, tubes, and trailers
- Precision cleaning station for analog and digital pressure gauges at very low pressures (using gauge cleaning methods) or under computer-controlled cycling for gauges above 2400 psig
- Portable cleaning equipment used for “in-place” cleaning processes
- Decontamination verification facility for hazardous fluid (fuels and oxidizers) contaminated components
- Test system for bubble-testing filters to determine micron rating (size) for Double Dutch Weave filters
- In-place cleaning of long lines and large vessels

Fluid Components Facility

- Component refurbishment facility for repairing and rebuilding fluid components such as check valves, relief valves, solenoid valves, manual valves, and regulators
- Hydrostatic test system for pressure testing components up to 40,000 psig
- Pump refurbishment to rebuild chemical pumps and vacuum pumps, including very large Stokes, Welch, and Kinney vacuum pumps
- High pressure intensifier refurbishment
- Laser engraving of test articles

Relief Valve Flow Facility

- Flow capabilities for pressure relief valves up to 1000 scfm, and pressures up to 2800 psig
- Set point verification to pressures over 10,000 psig

Personal Protective Equipment

- Repair and maintenance of personal protective equipment (PPE) and ensembles for ILC Dover, Respirix, MSA, and Self-Contained Atmospheric Protection Ensemble (SCAPE) operations
- A Self-Contained Breathing Apparatus (SCBA) test and repair facility



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Laundry Services

- Clean room and splash garments, smocks, and laboratory wear

Clean Rooms

- 3 – Class 100 clean rooms with over 1100 ft² of working area
- 2 – Class 10,000 clean rooms with over 750 ft² of working area; 450 ft² of this area has a 15-ft ceiling. Class I Div. II Group B explosion proof
- 1 – Portable softwall Class 10,000 clean room with 200 ft² of working area
- 1 – Softwall Class 10,000 clean room with 130 ft² of working area for laundry processing

High Bays

- 1 – Fully enclosed cleaning high-bay with over 1427 ft² of working area and 26- 28 ft high ceilings

Ultrasonic Cleaning Tanks

- 3 – 80-gal ultrasonic cleaning tanks with a variety of cleaning solutions
- 4 – 10-gal portable ultrasonic cleaning tanks with a variety of cleaning solutions

Hydrostat Facility

Test chamber capable of handling items 6 by 6 by 24 ft

