

Total Inward Leakage (TIL) / Other Classes of Respirator – FY17 (921ZFYH)

Objective

Support the testing capability and performance requirements for testing air purifying and supplied air respirators for inclusion in 42 CFR Part 84 and voluntary consensus standards.

Applicable Standards

- 42 CFR Part 84 DOE
- OSHA ISO

Key Partners

- Respirator Manufacturers

Stakeholders

- OSHA Labor Unions
- Manufacturers Respirator Users
- Employers

Project Scope

- Support other projects by conducting respirator fit and total inward leakage tests

Milestones FY17

3Q FY 17 - Completed sodium chloride testing N95 full facepiece respirators for ISO 16900-1 validation study

1Q FY17 – Completed sodium chloride testing on N95 filtering facepiece and elastomeric respirators for ISO 16900-1 validation study

2Q FY17 – Started ambient aerosol testing of N95 filtering facepiece and elastomeric respirator for respirator capability (RFC) testing

4Q FY17 – Complete half-facepiece RFC testing

Outputs

- Test report on ISO total inward leakage protection class study (3Q FY15)
- Test reports on Respirator Fit Capability Testing (3Q FY16 and 1Q FY17)

Outcomes

- Designs that result in better overall fitting respirators for general industrial workers, healthcare workers and emergency responders.

Updated: 31 MAR 2017