## 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.