

Evaluation of ISO Work of Breathing Test Methods and Proposed RPD Performance Requirements - FY15 (93902JT)

Objectives

- NPPTL evaluates proposed resistance and flow methods of ISO RPD standards
- Comparative analysis of proposed methods and standards and those in current certification scheme for all classes of RPD
- Determine their applicability in certification scheme
- Identify their applicability to proposed requirements in research and standards development

Applicable Standards

- ISO 16900-12,16900-13, 16900-8, 16900-5, ISO 17420-1 and 17420-2
- 42 CFR Part 84 (and standard test procedures)
- NFPA 1981

Key Partners

- ANSI,ISO, NIOSH

Stakeholders

- Respiratory Protection Standards Organizations
- Respirator manufacturers
- Respirator users

Project Scope (all years)

- Construct, validate and evaluate methods
- Apply to standard development and research needs

FY15 Milestones

- Q1. Review WOB literature
- Q2. NIOSH WOB system and method (ISO16900-12)
- Q3. Evaluation of WOB method for ability to assess NIOSH requirements
- Q4. Apply WOB in research topics

Outputs (completed and/or planned)

- Reports

Outcomes (completed and/or planned)

- Support the development of respiratory protective device ISO test methods and performance standards, ISO 17420-1 and 2
- The study provides a basis for NIOSH to judge the utility of these method(s)

Updated: 20 Feb 2015