**Eval. WOB test method and proposed RPD performance requirements FY17 (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, 17420-2 (ISO 16900-9)
- 42 CFR Part 84 (and standard test procedures)
- NFPA 1981

### Key Partners
- ANSI, ISO (head form task group), NIOSH

### Stakeholders
- Respiratory Protection Standards Development Organizations
- Respirator manufacturers
- Respirator users

### Project Scope (all years)
1. Develop NPPTL WOB methods
2. Characterize WOB for current respirators
3. Compare WOB to NIOSH methods
4. Determine effects of headform size
5. Evaluate human responses to RPD with high WOB

### FY17 Milestones
- Q3. Evaluation of WOB method for ability to assess NIOSH requirements
- Q4. Apply WOB in research topics

### Outputs (completed and/or planned)
- Comparison of ISO WOB and NIOSH APR ISRP Yokohama (11/2016)
- ISO visitors discussion (10-2016)
- Paper on method, experience and results (internal review)
- Paper Comparing WOB and NIOSH methods (draft)
- Paper discussing effect of head form on WOB (planned)

### Outcomes (completed and/or planned)
- Support the development of respiratory protective device ISO test methods and performance standards, ISO 17420-1 and 2 Table 1 in ISO 16900-5 revised and approved
- Provide basis for NIOSH to determine the utility of these method(s)