

Air Fed Ensembles FY15 (927PP20_AFE)

Objective

Develop a strategy for NIOSH certification of air fed ensembles



Applicable standards

- 42 CFR 84 Subpart J
- NWIP ISO 17240-1 and 2

Key Partners:

- Air fed ensemble manufacturers
- Regulatory agencies (OSHA)
- User groups (DOE, CDC, US Army, Paint, Petrochemical and Pharmaceutical Industries)

Stakeholders

- Air fed ensemble users
- Air fed ensemble manufacturers
- Enforcement agencies

Project Scope

- Identify and work with consensus SDO to transfer knowledge gained in developing the AFE concept and provide technical support to future standard development.

Milestones FY15

- Support the characterization of chambers and test equipment for IL Test Facility in Morgantown, identify requirements specific to AFE
- Support validation of ISO test methods relevant to AFE
- Nurture partnership between OMSHR/NASA/NIOSH – engage OMSHR/ NASA in USTAG, review of ISO NWIP supplied breathable gas devices

Output

- Benchmark performance of commercially available AFE according to ISO test methods, 16900-1 (Inward Leakage) and 16900-12 (Work of Breathing) , for example, using appropriate research protocols.
- Enhance development of ISO performance requirements for supplied breathable gas devices and filtering devices by including issues relevant to fully encapsulating RPD.

Outcomes

- Improve worker safety and health through use of air fed ensembles that meet nationally recognized standards. National performance criteria and specifications for air-fed protective ensembles do not currently exist.

Updated: 20 Feb 2015