

ISRP 2014 Abstracts - Presentations

United States and ISO Respiratory Protective Device Standard initial steps toward global standard harmonization: NIOSH plans and preliminary results for validating ISO performance requirements.

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The National Institute for Occupational Safety and Health (NIOSH) National Personal Protective Technology Laboratory (NPPTL) has been participating in the development of ISO standards for respiratory protective devices since ISO formed the Technical Committee (TC94/SC15: Personal Safety- Protective Clothing and Equipment-Respiratory Protective Devices) in 2002. NIOSH NPPTL has contributed leadership to the US Technical Advisory Group (USTAG) in support of ISO efforts including convening and participating in ISO working groups and project groups, and validating the test methods developed. NPPTL has initiated projects in direct support of the validation of ISO performance standards and test methods, including inward leakage, work of breathing and the determination of interactive flow rate. These efforts inform parallel efforts by NIOSH to support proposed updates to 42 CFR Part 84 consistent with ISO standards development. This overview will detail the progress to date in constructing chambers for inward leakage testing according to ISO 16900-1 and a new project designed to validate the method. Additionally, the project plan designed to validate ISO 16900-12, Determination of volume-averaged work of breathing and peak respiratory pressure and ISO 16900-8, Determination of interactive flow rate will be discussed.