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Hyatt Regency Pittsburgh International Airport

Branch

Policy and Standards Development

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Respirator Unit (CRU)

Nuclear (CBRN) Combination

Chemical Biological Radiological and

Technology Laboratory

National Personal Protective
Comments
Panel Discussion
Requested Presentations
NIOSH Presentation
CBRN CRU Presentations
Panel Discussion Topics

Background

Meeting Objective

NIOSH Discussion Topics
User operational requirements

- Regulatory requirements and other standard organizations
- Potential challenges due to different types of respirators
- Respirator manufacturers and wearers

Potential ramifications of the performance standard on:

- Anticipated concept of the final performance standard

Performance standard such as the following:

NIOSH CBRN Combination Respirator Unit (CRU)

Discuss the issues related to the development of the

Request for Information to:

Meeting Objective
Background

CRU may be a combination of the following:
- Respiratory protective devices (RPD) separated by technology of two or more different types of respirators
- A multi-functional unit that employs the following:
  - Other?
  - Air-Purifying Respirator (APR)
  - Powered Air-Purifying Respirator (PAPR)
  - Supplied Air Respirator (SAR)
  - Closed Circuit Self-Contained Breathing Apparatus (CC-SBCA)
  - Open Circuit Self-Contained Breathing Apparatus (OC-SBCA)
Background

Protection to the user

The type of respirator in the combination which provides the least protection as specified in Sec. 84.70(b)(2), will be classified by the

Health of this part, and such combination respirators, minimum requirements for such respirators set forth in subparts

which have been combined shall, as applicable, meet the

described in this part, each of the individual respirator types

respirator is assembled from two or more types of respirators, as

Where a combination

Title 42 Code of Federal Regulations Part 84 Section

84.63(b) (42CFR84.63(p) states "Where a combination
Background

Hazardous Atmospheres can be either IDLH or non IDLH

OSHA Regulations (29 CFR 1910.134(d)(2)(i)), entry into an Immediately Dangerous to Life and Health (IDLH) atmosphere (29 CFR 1910.146(b)) requires the use of a full facepiece positive pressure SCBA (Service Life ≥30 minutes) or a full facepiece Type "C" or Type "CE" supplied air respirator in combination with an SCBA.

To Synopsis: If a CRU has an APR in combination, it will be classified as an APR (TC-14G or TC-23C).

Gas masks are designed for entry into non IDLH or escape from Hazardous Atmospheres containing O₂ ≥19.5%.

Chemical cartridge respirators for entry into or escape from non IDLH
described in 42 CFR 84

Types of respirators (OC-SCBA, CC-SCBA, PAPR, APR)

CRU standard may include performance requirements of other

promulgate the standard into 42 CFR 84

standard for the CRU and use the Rulemaking Process to

NIOSH-NPTTL intends to develop new a CBPN performance

air-purifying mode when in non-IDLH atmospheres

worn in a supplied-air mode while in IDLH atmospheres and in an

Interested stakeholders desire for CRU to be safely and legally

primary duties in response to CBPN incidents

respiratory protection needs so they can better perform their

Responders expressed a desire to use CRU to customize their

Background
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