

NIOSH / NPPTL Respirator Manufacturers Meeting

May 12, 2009

Manufacturers Letters/Users Notices

Heinz Ahlers, Chief TEB

Jeff Peterson, Team Leader Certification

Proposed Changes to Carbon Monoxide Requirements

- **Test Limits for Carbon Monoxide Cyclic Breathing Temperature**
 - RCT APR STP 0034 section 6.2
 - The cyclic breathing temperature test is used only when the breathing temperature under the Carbon Monoxide Service Life Test exceeds 100 degrees Centigrade during standard testing.

Proposed Changes to Carbon Monoxide Requirements

- **The cyclic breathing test was imposed as a better approximation of the breathing zone temperature generated during worker use in a CO atmosphere**
 - 24 Respirations per minute
 - 40 liter per minute cyclic flow
 - 1200 ppm CO @ 25 C 95% RH
- **The pass fail criteria are:**
 - 46 C dry bulb temperature
 - 10 ppm CO

Proposed Changes to Carbon Monoxide Requirements

- A number of manufacturers have questioned the derivation of the 10 ppm CO limit for the cyclic breathing temperature test
- Review of the 10 ppm pass/fail criteria shows it was based on an assumption on mask leakage that we now believe can be modified
- The REL for CO is 35 ppm with a ceiling value of 200 ppm and an IDLH value of 1200 ppm
- NPPTL is proposing a 35 ppm CO pass/fail value for this test

Proposed Changes to Carbon Monoxide Requirements

Questions?