

# NIOSH / NPPTL Respirator Manufacturer's Meeting

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STP Update Program

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# Standard Testing Procedures (STP) Updating Program

- **NPPTL has over 150 STPs**
- **NPPTL will review and update all STPs**

**3 areas include**

- **Supplied-Air Respirators (SAR)**
- **Air-Purifying Respirators (APR)**
- **Chemical Biological Radiological and Nuclear (CBRN)**

# STP Update Program

## What Changes?

- **Changes required for ISO 17025 compliance – including revisions to meet new Standard Operating Procedure for Writing and Obtaining Approvals for STPs**
- **Precision and accuracy information**
- **Specify clearly the performance requirements for each type of respirator and the legal basis behind it**

# STP Update Program

## What Changes?

- Add tolerance ranges for every parameter

For example: 85% RH equilibration –

85 + 0/-5%

- Updates, additions and corrections
- Clearly explains test conditions for all types of respirators including PAPRs not in 42 CFR 84
- Removes extraneous, unnecessary and confusing language, and references to obsolete sections of 42 CFR 84, e.g. paint spray and lead fume tests

# STP Update Program

## What Changes?

**Separate industrial Gas / Vapor STPs into separate documents**

**A = cartridge**

**B = canister**

**C = PAPR cartridge**

**D = PAPR canister**

**Not all STPs have all 4**

# STP Update Program

## What Changes?

- **Separate sodium chloride and DOP particulate filter tests into separate STPs**
- **Update safety and personal protection information**

# STP Update Program

## What Changes?

- **Correct omissions and errors**

### Examples:

- **Vacuum level in drinking tube test of 75mm WC**
- **Missing analytical wavelength for OV test**
- **Breakthrough concentration for industrial phosphine test**

# STP Update Program

## What Changes?

- **Correct omissions and errors**

### Examples:

- **Screening solution preparation for IAA test**
- **Test concentration for front / back mounted gas masks for H<sub>2</sub>S of 10,000 ppm**

# STP Update Program

- Update file names per new Standard Operating Procedure
- **TEB-APR-STP-#**

# STP Update Program

- Update descriptions of all test equipment used

## Examples:

- New Analyzers for  $\text{NH}_3$ ,  $\text{CH}_2\text{O}$ ,  $\text{CH}_3\text{NH}_2$ ,  $\text{HCN}$ ,  $\text{PH}_3$ ,  $\text{CO}$ ,  $\text{SO}_2$ ,  $\text{H}_2\text{S}$ ,  $\text{NO}_2$ ,  $\text{HCl}$ ,  $\text{Cl}_2$ ,  $\text{ClO}_2$ ,  $\text{CS}$ ,  $\text{CN}$  for industrial tests
- Mass Flow Controllers
- Hygrometers and thermocouples
- LabView system

# Updated STPs – IAA Test

- STPs that have been updated since program began:
- TEB-APR-STP-0005, 0005a, and 0006  
Determination Of Qualitative Isoamyl Acetate (IAA) Facepiece Fit Test
- Changes – Clarification of test subjects used, correction of screening solution preparation instructions, correction of formula to calculate concentration for calibration purposes

# Updated STPs – In The Pipeline

- STPs submitted for final approval and posting
- **TEB-APR-STP-0413A-CBRN**
- **TEB-APR-STP-0413B-CBRN**

# Updated STPs – In The Pipeline

- **STPs in last stage review process**
- **RCT-APR-STP-0014 Drinking Tube Leakage**
- **RCT-APR-STP-0012 PAPR Air Flow**
- **RCT-APR-STP-0035 Chlorine Service Life Tests**
- **RCT-APR-STP-0062 Nitrogen Dioxide Service Life Tests**

# STP Update Program

- Send comments, questions, and any other feedback to:

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# STP Update Program

# Questions?