

# Methods Updates and Revisions

Methods and Regulations in Parts 60,  
61, & 63

# Methods Updates & Revisions

- Corrections
  - Inaccuracies
  - Typos
- Updates
  - Improvements
  - Obsolete Materials
  - Reinstatements
- Approved Alternative Methods
  - New Methods in Rules
  - New Procedures in Methods

# Methods Updates & Revisions

Regulatory Tract

ANPRM – 60 day comment period

NPR

FRM

# Corrections

- Metallic Minerals Processing (Subpart LL)
  - PM Std from 0.02 to 0.05 g/dscm
- Asphalt Processing/Roofing
  - PM Std from 0.04 to 0.4 Kg/Mg
- Method 2 Avg Stack Gas Velocity

$$V_s = K_p C_p \frac{1}{n} \sum_{i=1}^n \sqrt{\Delta p_i} \sqrt{\frac{T_{s(Abs)}}{P_s M_s}} \quad \text{Eq. 2-7}$$

**NOT**  $\sqrt{\Delta p_{Avg}}$

# Improvements

## Methods 7 & 7A

- Procedure for high SO<sub>2</sub> Interference

## Method 11

- Procedures for sampling breakthrough

## All Methods

- Stratification procedures
- Verification of cyclonic flow

# Improvements

- *Method 5*
- Check valve removed from train
- Teflon filter holder allowed

# Obsolete Materials/Specs

- Calibrations Against Hg Instruments
  - Temperature sensors (Methods 5, 5A, 6, 7, 7A, 11, 23, 102, 306, 308, 315, 316)
  - Barometers (Methods 2, 2A, 2D, 5, 6, 7, 30)
- Use of Tedlar Bags (Methods 7E, 10A, 10B, 18)

# Obsolete Materials/Specs

- Method 2B
  - Assumed ambient CO<sub>2</sub> from 300 to 380 ppm
- Method 5E
  - Tekmar-Dohrmann replaces Rosemont TOC analyzer
- PS-4
  - Use of Method 10 trap for NDIR CEMS dropped

# Reinstatements

- Method 6C – Fluorescence analyzers handling of potential CO<sub>2</sub> and O<sub>2</sub> quenching effects
- PS-3 – RA Option of 20% of RM

# Deletions in Rules

- Yeast Manufacturing MACT
  - Methods 1, 2, 3, & 4 when using M25A for VOC
- RICE MACT
  - Method 1 or 1A when measuring HCHO

# New Alternatives in NSPS

- General Provisions of Part 60
  - Method 205 of Part 51 allowed for multiple gases
- Subpart Db Boilers
  - Method 320 allowed for NO<sub>x</sub>/SO<sub>x</sub>
- Subpart KK Pb Acid Battery Manuf.
  - Method 29 allowed for Method 12

# New Alternatives in NSPS

- Subpart LL – Metallic Mineral Processing
  - Single observer can perform 3 VE readings
- Subpart JJJ – Spark Ignition Engines
  - Single pt sampling in place of Method 1 or 1A

# New Alternatives in NESHAPs

- Beryllium, Mercury, As from Glass Manuf.
  - Method 29 option to Methods 104, 101A, 108
- Chrome Electroplating
  - SCAQMD Method 205.1 for total chrome
- Ethylene Oxide Sterilizers
  - CARB Method 431 for vent efficiency

# New Alternatives in NESHAPs

- Marine Tank Vessel Loading
  - Method 25B for VOC option to Methods 25/25A
- Pharmaceuticals Production
  - Method 320 option to Method 18 for demonstrating vent is not a process vent

# New Alternatives in MACTs

- Subpart G – SOCFI
  - Method 8260B (SW-846) or Method 316 option for HAPs in wastewater streams
- Subpart RRR - Secondary AI
  - Method 26 option to Method 26A
- Subpart UUUU – Refineries
  - Method 320 option to Method 18 for control device eff.

# New Alternatives in Methods

- Method 4
  - Method 6A and f-Factor calc as alternatives
- Method 5
  - Use of Isostack module for flow rate
- Method 5H
  - Alternative tracer gas flow rate procedure
- Method 10
  - Option use use bags in place of tanks

# New Alternatives in Methods

- Method 3B
  - Method 3A/10
- Methods 12, 101A, 104, 108A
  - ICP-AES option to AA
- Method 25C
  - Nonperforated probes driven in 1 step
- Method 26
  - Heated Teflon probe option to glass

# Clarifications

## PS-16

- RATA only after critical parameter change
- RAA acceptance criteria same as RA
  - 10% Diff when above 100 ppm
  - 20% Diff when between 20 & 100 ppm
  - $\pm 2$  ppm when under 20 ppm

# Clarifications

- Method 5
  - Negative filter weights treated as zero

# New Alternatives in Methods

## Performance Specification 7

- Method 15 & 16 option to Method 11
- RM sampling times added

Method 11: 10 min minimum/30-min interval

Methods 15/16: 2 injects/30-min interval