

Maine DEP Emissions Inventory Program and Reporting Update

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Air Toxics and Emissions Inventory Section
December 1 and 2, 2008

Before we begin....

- Please keep your line muted when not asking a question
- Do not put your line on 'Hold'
- Feel free to ask questions
 - 'Raise Your Hand' as WebEx participant
 - Type your question into Chat
- This presentation will be available on the Emissions Inventory website next week

What Will We Cover

- Summary of changes to Chapter 137, "Emissions Statements"
- 2008 Air Emissions Inventory – What to Expect and When
- Maine Air Emissions Inventory Reporting System (MAIRIS) – Coming in 2010!

Changes to Chapter 137

- Ch. 137 is the foundation of annual point source air emissions inventory
 - Large, stationary sources
 - Includes criteria and hazardous air pollutants
 - Greenhouse gas inventory since 2004
- Mirrors EPA's Consolidated Emissions Reporting Rule
 - Inventory submitted annually to EPA

Reason for Changes Now

- Provide more definition to facilities on what's included and not included in annual inventory
- Incorporate air toxics priority list developed by Maine Air Toxics Initiative
- Bring state rule in line with changing data elements and reporting standards of EPA

1. Provide Definition to Inventory

- Air emissions inventories are now limited to licensed facilities and a few specific greenhouse gas emitters
 - Functionally, there is no change to CAP and GHG reporters; reporting facilities are identified by their license limits
 - OUT - The few unlicensed facilities that reported HAPs to us every three years

1. Provide Definition to Inventory

- We are also limiting CAP and HAP reporting to licensed equipment and processes
 - Big Change! Why?
 - We've had to take it on faith that all emission points were accounted for
 - Seeking consistency within sectors
 - Minimizes possible "double counting" with area sources

1. Provide Definition to Inventory

- Removing the HAP reporting requirement for releases to POTWs
 - A remnant of the Toxics Release Inventory
 - We have other ways to determine emissions

2. Align with Maine Air Toxics Initiative

- The MATI process established a ranked, priority list of air toxics in Maine
- We felt our inventory efforts should be focused to support gathering data on top toxics
- HAP reporting now focuses on 13 top toxics from point sources

13 Required HAPs

- Polycyclic Organic Matter (POM)
- Acrolein
- Formaldehyde
- Benzene
- Chromium
- Nickel
- Arsenic
- Acetaldehyde
- Cadmium
- Manganese
- Dioxins and Furans
- Mercury

13 Required HAPs

- These 13 HAPs are required to be reported for all fuel-burning and combustion equipment, regardless of threshold
- We feel this will drive emission factor research and provide facilities with a smaller list of pollutants for which stack testing should be a priority

Other HAP Changes

- There are also nearly 80 changes to Appendix A, Maine Hazardous Air Pollutant List
 - Deletions:
 - About 30 low toxicity pollutants that have been "de-listed" as hazardous by EPA and are no longer reportable to them

Deletions from Appendix A

- (De-listed Low Toxicity / Low MATI)
- | | |
|-----------------------|---------------------------|
| ■ Acetic Anhydride | ■ Ethyl Acetate |
| ■ Acetone | ■ Formic Acid |
| ■ Aluminum | ■ Freon 113 |
| ■ Barium & Cmpds | ■ Furfural |
| ■ N-Butanol | ■ Isopropyl Alcohol |
| ■ N-Butyl Acetate | ■ Methyl Acrylate |
| ■ Tert-butyl Alcohol | ■ Methyl Ethyl Ketone |
| ■ Copper & Cmpds | ■ N-Methyl-2-Pyrrolidone |
| ■ Cyclohexane | ■ Nitric Acid |
| ■ DDE | ■ Oxalic Acid |
| ■ 1,2-Dichlorobenzene | ■ Titanium Dioxide |
| ■ Ethanolamine | ■ 1,2,4-Trimethyl Benzene |
| | ■ Vanadium & Cmpds |
| | ■ Zinc & Cmpds |

Deletions from Appendix A

- 2-Ethoxyethanol
- Methoxyethanol
(Glycol Ethers)

- Ammonia
(reported as a CAP)

Other HAP Changes

- There are also nearly 80 changes to Appendix A, Maine Hazardous Air Pollutant List

Additions:

- About 45 pollutants that are reportable as POM
- Also, changes to the way POM can be reported

Reporting POM

- EPA is no longer accepting reporting of POM, 7-PAH, or 15-PAH – EPA wants reporting of speciates (toxicity differences)
- Maine has retained POM as a reportable pollutant and added 45 POM-speciates
- For a given process unit, facilities may report POM or the speciates but not both!

Reporting Chromium

- Similar to POM, EPA is changing the way chromium can be reported
- For a given process unit, facilities may report:

Chromium or Chromium Compounds	Chromium (III) Chromium (VI)
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BUT NOT BOTH

3. Changing EPA Requirements

- Maine DEP made a number of minor changes to data elements in inventory
 - Added e-mail addresses
- In response to proposed federal reporting changes, we have moved the reporting deadline from July 1 to May 15, beginning in 2010 (2009 Inventory)

3. Changing EPA Requirements

- Finally, we are modifying our greenhouse gas pollutant list in Appendix B
 - Error in 2004 added additional ozone-depleting substances not in the Kyoto Protocol to Maine list
 - We need to bring our list in line with new federal greenhouse gas reporting requirements and the new national Climate Registry

Summary of Changes to Ch. 137

- Provide more definition to facilities on what's included and not included in annual inventory
- Incorporate air toxics priority list developed by Maine Air Toxics Initiative
- Bring state rule in line with changing data elements and reporting standards of EPA

2007 Annual Air Emissions Inventory Submissions

- Thank you to everyone!
- We are behind in our reviews and will be late in sending out quality assurance reports
- Your patience is greatly appreciated!

2008 Annual Air Emissions Inventory

- 2008 = HAP Inventory Year!
- All submissions are due by July 1, 2009
- Maine DEP is making some changes to screens and pre-populating some HAP pollutant records

PLEASE START YOUR 2008 INVENTORY WITH THE DATA SET SUPPLIED BY DEP

2008 i-STEPS Data Sets

- Maine DEP is adding fields for:
 - E-mail addresses
 - New EPA Identifiers for all facilities, emission units and stacks
- Pre-populating the 13 Required HAPS, where emission factors exist, for all combustion SCCs
- Adding new or updated factors to the Local Emission Factor table

2008 i-STEPS Data Sets

- "Insignificant activities" will still be in your data sets
 - Facilities may choose to report zero emissions or delete
 - All will be deleted by 2009 inventory and move to MAIRIS
- Maine DEP plans to release data sets by April 1
- There are no other changes to the Satellite i-STEPS program

2008 Annual Air Emissions Inventory

- Maine DEP will once again be dedicating a web page to 2008 inventory issues
 - NEW Pollutant Code Table
 - NEW HAP Default Emission Factors
 - Copy of this presentation
 - Links to Satellite i-STEPS program and data files (once posted)
 - Training Announcements
- Webpage will be posted by December 15

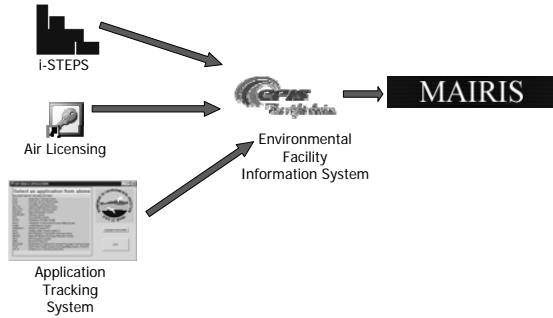
2008 Annual Air Emissions Inventory - Timeline

- December 15 – 2008 Website opens
<http://www.maine.gov/dep/air/emissions/2008.htm>
- January/February – Information letter
- March/April – Release of data sets
- May – Training
- July 1, 2009 – Reporting deadline

Maine Air Emissions Inventory Reporting System (MAIRIS)

- MAIRIS is the new, web-based, emissions inventory software being developed by Maine DEP
- But why are we talking about this now?
- In conjunction with building MAIRIS, Maine DEP is also integrating several data systems that manage air licensing and emissions reporting data

The Path to MAIRIS



The Path to MAIRIS

- We are currently “reconciling” the information in i-STEPS with that in the Air Licensing Database
 - Common naming of emission units and fuels
 - Re-grouping/un-grouping of emission units
 - Eliminating “insignificant” units
- Before MAIRIS goes live, we will have a process for facilities to view the results of this reconciliation

The Path to MAIRIS

- Beginning in late spring, we are going to start registering MAIRIS users
 - Facilities may have more than one user
 - One person must be designated as “Facility Approver” – the person who signs the certification statement
 - Facilities may add other staff and their consultants as “Facility Editors”

"I'm from the government and I'm here to help..."

We truly are here to help!

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Send any questions to:

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