MARAMA/EPA Region 3
2008 Summit
Sept. 8, 2008

Delaware Air Toxics Activities

DNREC – Air Quality Management

Dover / New Castle, Delaware

Blue Skies Delaware; Clean Air for Life

Delaware's Air Toxics Strategic Plan

Small Business Ombudsman

Modeling

Emissions Inventory

Monitoring

Pollution Prevention

Stationary Sources

Education & Outreach

Area Source Compliance

Energy Conservation

Planning

Mobile Sources

Blue Skies Delaware; Clean Air for Life

Provides an Ongoing Program to Address Risk

- Initial ATSP in 2005
- Air Quality Management only (8 Areas/Functions)
- **Added 3 new non-AQM participants since**
  - **Small Business Ombudsman**
  - **Pollution Prevention**
  - **Energy Office**
- Participants work independently, as well as, jointly
- **Began to integrate the Delaware's "112(k) Area Source Program" into the ATSP framework**

Improving the Understanding of Ambient AT in Delaware's Environment

- Continuing on-going monitoring of
  - Carbonyls in Wilmington
  - VOC HAPs in Wilmington and near refinery

- **Initiated a community air toxics (CAT) project to monitor various VOC HAPS at locations around the Wilmington monitoring station (4Q/09)**

Identifying Potential Harm from Exposure to AT

- **Nearing completion of regional-scale modeling of AT concentrations for the Delaware Air Toxics Assessment Study (DATAS) Phase II program (3Q/08)**
- Collaborating with EPA's Office of R&D on modeling Sub-Grid Scale Variability and its application to human exposure assessments

Gathering Information of AT Sources

- **Completed 2005 HAPs emission inventories for**
  - **Stationary point sources**
  - **On-road mobile sources**
- **Near completion of 2005 HAPs emission inventories for**
  - **Area point sources (3Q/08)**
  - **Off-road mobile sources (3Q/08)**

Identifying Options for Reducing AT Emissions

- **Prepared Diesel Emissions Reduction Act (DERA) grant applications**
  - **Truck stop electrification**
  - **Diesel retrofits for Port of Wilmington**
  - **Diesel retrofits for Red Clay School District Buses (18)**
- **Continuing support of EPA R3's Claymont Industry Partnership Initiative**
- Began a 112(j) case-by-case PVC MACT determination (12/08)

Implementing Appropriate Actions to Reduce AT Emissions

- Awarded auxiliary power unit (APU) grants to 5 trucking companies
- **Providing compliance assistance to the PERC dry cleaners associated with Delaware's more protective rule**
- Began initial adoption of 112(k) area source standards
  - Lead acid battery manufacturing (10/08)
  - Hospital ETO sterilizers (1Q/09)

Implementing Appropriate Actions to Reduce AT Emissions

- **Conducted 5 educational program or outreaches on school bus anti-idling requirements and benefits**
- Provided assistance to small business to promote programs and improve communications
  - Dry cleaners
  - Boat marinas
  - Trucking companies
- **Began joint (6) development of rule adoption and compliance assistance plans for "Cleaning & Painting"**

Evaluating Effectiveness of Actions Take to Reduce AT Emissions

- Continuing on-going monitoring of carbonyls and VOC HAPs
- Continuing to develop HAPs emission inventories

Alternative "indicators" remain elusive

Have you found any?

Developing AT Resources

- **Attending AT training, when available**
- Promoting broad internal participation on MARAMA and national AT committees and sub-committees (NACAA Boiler MACT)
- **Addressing several long-term vacancy issues**

Reducing Mobile Source HAP Emissions Through Implementation of Delaware Zero Emission Vehicle Initiative

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