

# Ozone Transport Commission Mobile Source Committee Update

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OTC Fall Meeting 2009

November 5<sup>th</sup>

Baltimore, MD

# Mobile Source Committee

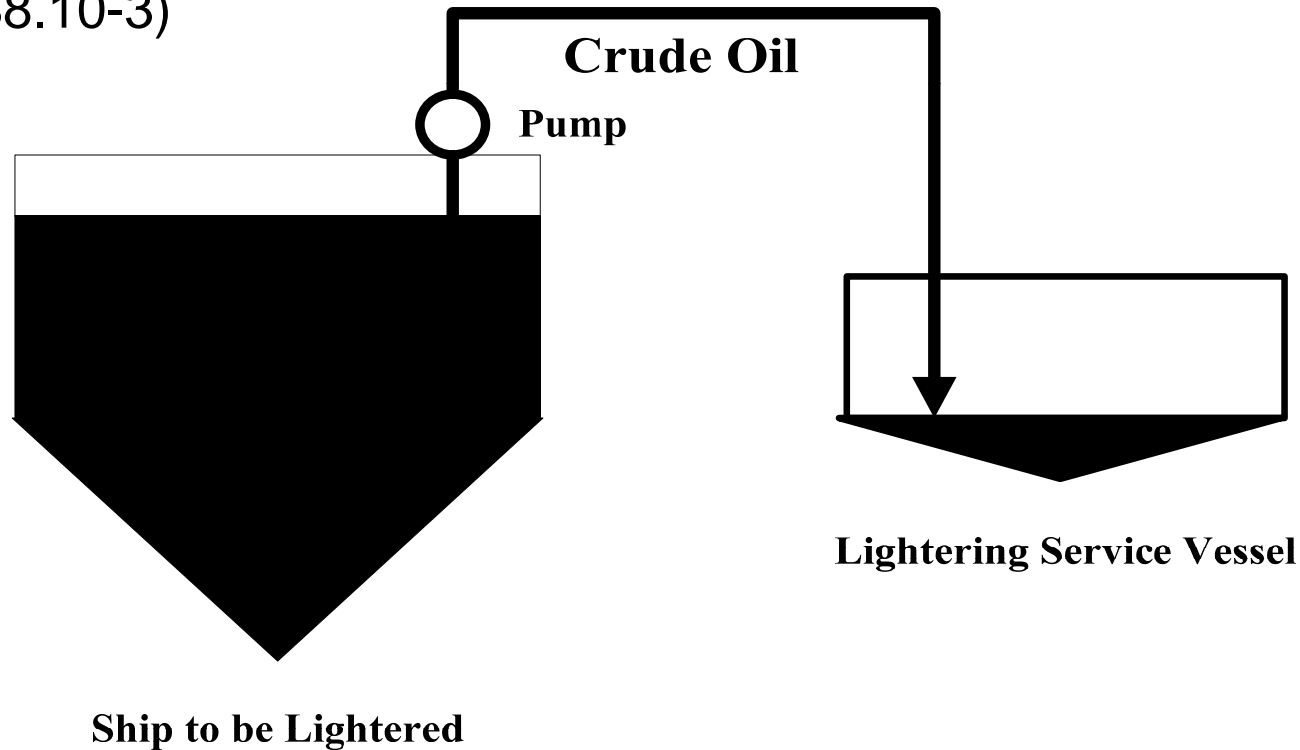
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- Measures Under Evaluation (NESCAUM)
  - Lightering
  - Non-road idling
  - Sea ports
- Other Initiatives
  - Identify Other Options
  - Catalyst Replacement Program Design Recommendation to the USEPA

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- Lightering—

- “Lightering or lightering operation means the transfer of a bulk liquid cargo from a tank vessel to a service vessel.” (46 CFR 38.10-3)



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- Lightering (*Courtesy of DNREC*)



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- Lightering–

- Locations

- Delaware Bay ~ 100 million Barrels/year
- NY (NY Harbor + LI Sound) ~ 37 million Barrels/year
- Baltimore ~ Expecting data
- Off-Shore ~ 16 million Barrels/year
- Based on 1998 National Resource Council Report and Coast Guard Data

- Emission Reduction Benefit Estimates (Upper Bound)

- Based on Delaware Rule and AP 42 EFs
- Delaware Bay ~ 1,858 tons/year VOC (regulation in place)
- New York ~ 2,261 tons/year VOC
- Baltimore ~ Expecting data
- Off-shore ~ 292 tons/year VOC

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- Lightering (cont.)–
  - Considerations
    - A variety of petroleum products are transferred (crude, gasoline, jet fuel, etc.)
    - A 95% reduction is technically feasible using vapor balance control technology
    - DE regulations phase in the requirements

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- Non Road Idling
  - Focus on Construction Equipment
  - Developing emission inventory information
    - Portion of the Emission Factor
    - Activity Information (Sensitivity Analysis)
  - Stakeholder Comments, Engine Manufacturers association (EMA)
    - Prefer education programs for owners and operators over regulation
    - Request regional consistency, and
    - Provides recommendations on Scope, Applicability, Definitions, Time limits and Exemptions for a rule

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- Sea Ports
  - Developing Emission inventory information
    - Emission Factors
    - Activity Uncertainties
  - Developing Strategy Recommendation



# Screening Analysis Strategies

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- Benefits from the IMO Emission Control Area Definition
- Lightering
- Idling Programs
- Sea Ports

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- Other initiatives
  - Developing an outline for a National Catalyst Replacement Program Recommendation for the USEPA

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- Next steps
  - Complete the White Papers
  - Define measures for inclusion in the Screening Modeling
  - Identify Other Options
  - Stakeholder Meeting in Spring 2010