

# Ozone Transport Commission Stationary and Area Source Committee Update

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OTC Committee Meeting

March 16<sup>th</sup>, 2011

Linthicum, MD

# Stationary and Area Source

NOx Measure	State(s) Rule Based On	Model Rule Adopted ?	Emissions Reduction	Cost
Oil and Gas Fired Boilers serving EGUs	DE, NJ, MA, MD, NY	Yes	139 TPD OTR	\$2,730 to \$21,800 per ton
Coal Fired Boilers serving EGUs	TBD	No	TBD	TBD
New Small Gas Boilers	CA, TX	Yes	53 TPD OTR	\$3,300 to \$16,000 per ton
Municipal Waste Incinerators	NJ, MD	No	14 TPD OTR	\$2,140 per ton (SNCR)
HEDDCT EGUs	NJ	Yes	20 TPD OTR	WI: \$44,000 per ton HEDDCT (or \$4400 seasonal)
Stationary Generator Regulation (DG)	DE, MA, MD, NJ	Yes	TBD	\$39,700 to \$79,700 per ton
Energy Security /Efficiency	TBD	No	TBD	TBD
Natural Gas Compressor Stations	TBD	No	TBD	TBD

# Stationary and Area Source

VOC Measure	State(s ) Rule Based On	Model Rule Adopted?	Emissions Reduction	Cost
AIM Rule Update	CA	Yes	60 TPD OTR	\$2,240 per ton
Autobody Refinishing	CA	Yes	31 TPD OTR	\$2,860 per ton
Consumer Products	CA	Yes	19 TPD OTR	\$7,700 per ton
Solvent Degreasers	MD, CA	No	13 TPD OTR	\$1,400 per ton
Stage 1 and 2 Vapor Recovery	TBD	No	TBD	TBD
Large Above Ground Storage Tanks	MD, NJ	Yes	TBD	\$2,288 to \$29,000 per ton (Industry estimate: \$47,000 /ton) (BP - Carson, CA spent \$15.4 million to dome 32 tanks)

# Recent Activities

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- September 2010, OTC Committee Meeting
  - Presented draft Model Rules on Stationary Generators, HEDDCT, Solvent Degreasers
  - Sought stakeholder comments
- November 2010, OTC Fall Meeting
  - Adopted Model Rules on Stationary Generators and HEDDCT
  - Sent Solvent Degreasers back to the Committee for further stakeholder outreach
  - Added Natural Gas Compressor Stations as a new measure for the Committee to develop and evaluate
  - Sought stakeholder comments

# Updates on Other Measures

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- Other NO<sub>x</sub> Measures Under Review
  - Municipal Waste Incinerators
  - Coal Fired Boilers
  - Natural Gas Compressor Stations
- Other VOC Measures Under Review
  - Stage 1 and 2 controls
  - Solvent Degreasers
  - Consumer Products Updates: Thinners and Multipurpose Solvents

# Municipal Waste Incinerators

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- Municipal Waste Incinerators
  - Waiting for EPA MACT
    - Awaiting federal proposal



# Coal Fired Boilers Serving EGUs

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- Evaluating EPA's Proposals
  - Utility Toxic Rule Expected March 2011
  - TR2 Expected Summer 2011
- On hold until after review

# Natural Gas Compressor Stations

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- Natural Gas Compressor Stations
  - Measure added at November 2010 meeting
  - Developing white paper, gathering information on emissions
  - Conducting stakeholder information calls (American Gas Association, Johnson Matthey, Others), and other stakeholder outreach



# Stage I/II Vapor Recovery

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- Awaiting EPA's rule on widespread use
- Examining additional reduction opportunities
- Collecting additional data from states
- Evaluating vendor data received from Veeder Root, interested in hearing from other stakeholders

# Solvent Degreasers

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## Solvent Degreasers

- The 2011 OTC Model Rule for Solvent Degreasing is based on an amalgam of two California air district rules; Rule 1122 of the South Coast Air Quality Management District (SCAQMD) as amended May 1, 2009 and Santa Barbara County Air Pollution Control District Rule 321(Remote Reservoir Cleaner only) as amended September 18, 1997

## Stakeholder Comments

- Contacted over 40 stakeholder organizations to help develop a final model rule
- Received comments from Safety Kleen, Greco Brothers, others
- Evaluating stakeholder comments

# Thinners and Multipurpose Solvents

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- Developed white paper on inclusion of new limits in the Consumer Products Rule
- Seeking broader stakeholder input

# Draft Documents Issued for Comment

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- Technical Support Documents for adopted model rules
- Solvent Degreasing Model Rule
- White Paper on Thinners and Multipurpose Solvents

# Measure Development Process

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- Next Steps

## Committee Activities

- Additional sector specific calls with stakeholders
- Review and consider stakeholder comments
- Update the draft Technical Support Documents
- Develop screening modeling inputs and which measures to include

# Measure Development Process

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- Next Steps
  - Develop recommendation for OTC June meeting on Thinner and Multipurpose Solvent Proposal
  - Continue work on the remaining control measures from the list
  - Explore new measures

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