

Ozone Transport Commission Stationary and Area Source Committee Update

OTC Committee Meeting
September 16th, 2010
Linthicum, MD

Stationary and Area Source

NOx Measure	State Rules	Emissions Reduction	Cost
Boilers serving EGUs	DE, NJ, MA, MD	413 TPD OTR	\$1,100 - 8,700 per ton
New Small Gas Boilers	CA, TX	53 TPD OTR	\$3,300 to \$16,000 per ton
Municipal waste incinerators	NJ, MD	14 TPD OTR	\$2,140 per ton (SNCR)
HEDD EGUs	NJ	TBD	\$45,000 to \$300,000 per unit
Stationary Generator Regulation (DG)	DE, MA, MD, NJ	TBD	\$39,700 to \$79,700 per ton
Minor New Source Review	DE, CT, MD, MA, NJ, RI, PA, VA, VT	TBD	\$600 to \$18,000 per ton
Energy security / Energy efficiency	TBD	TBD	TBD

Stationary and Area Source

VOC Measure	State Rules	Emissions Reduction	Cost
AIM rule	CA	50 TPD OTR	\$2,240 per ton
Auto Refinishing	CA	21 TPD OTR	\$2,860 per ton
Consumer Products 2006	CA	19 TPD OTR	\$7,700 per ton
Lower VOC Solvent Degreaser	MD, CA	13 TPD OTR	\$1,400 per ton
Gas Stations	TBD	TBD	TBD
Large VOC Storage Tanks	MD, NJ	TBD	\$2,288 to \$29,000 per ton
Minor New Source Review	DE, CT, MD, MA, NJ, RI, PA, VA, VT	TBD	TBD

Updates on Measures

- March 2010, OTC Committee Meeting
 - Presented draft Model Rules for several stationary and area source sectors
 - Sought additional stakeholder comments
- June 2010, OTC Annual Meeting
 - Presented Stakeholder comments
 - Committee made several recommendations to the Commission
- September 2010, OTC Committee Meeting
 - Presenting draft Model Rules on Stationary Generators, HEDD, Low Solvent Degreasers
 - Seeking stakeholder comments

Updates on Other Measures

- Other NO_x Measures Under Review
 - Municipal waste incinerators
 - Energy efficiency / renewable energy
- Other VOC Measure Under Review
 - Stage 1 and 2 controls

Stationary Generators

- Consistent definition of “emergency”
 - Draft rules proposes a new consistent definition
- Approach for new engines
 - Harmonizing timelines with effective date
 - Focusing on specific NO_x limits and proposes NMHC (hydrocarbons), PM and CO limits



Stationary Generators

- Approach for new engines
 - Sync model rule emissions standards with federal standards for new emergency generators
 - Revise to include most stringent NSPS emissions standards for non-emergency generators
- Defense training exemption
 - Included
- Existing generators
 - No additional emissions standards for emergency generators
 - Approximate 90% reduction in emissions for existing non-emergency generators

High Energy Demand Days

- **HEDD**

Model Rule Focuses exclusively on turbines, sets the range at 5 to 15

megawatts, and provides definitions for HEDD conditions.

- Applicable to any natural gas, distillate oil fired turbine that is an HEDD unit capable of generating 5 MW or greater.
- Sets standards for subject HEDD turbines that qualify as "Peaking Units," periodic emission monitoring must be conducted for NO_x and CO



Low Solvent Degreasers

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 (for Remote Reservoir Cleaner only) as amended September 18, 1997.
- Compliance date for this 2011 OTC Model rule is set for January 1, 2014.
- Does not apply to non-VOC HAP solvents
- Covers all parts of the devices, not just metal
- Exempts medical military equipment, and facilities with capture devices



Municipal Waste Incinerators

- Municipal Waste Incinerators
 - Waiting for EPA MACT
 - Pending federal proposal
 - Facility specific limits
 - Establish 24-hour and annual limits
 - Exceptions for start up, shutdown and malfunction



Energy efficiency / renewable energy

- SIP issue, being discussed with EPA on modeling and inventory information and overlap with GHG plans
- Potential revisions to EPA guidance
- Developing pilot projects

Coal Fired Boilers Serving EGUs

- Evaluating EPA's transport rule
- On hold until after review

Stage I/II Vapor Recovery

- Awaiting EPA's rule on widespread use
- Examining additional reduction opportunities
- Collecting additional data from states
- Evaluating vendor data

Measure Development Process

- Next Steps
 - Please submit written comments by September 30th.
 - Underline / strikeout with supplemental comments preferred. Please focus on the emissions impact.
 - Committee Activities
 - Sector specific calls with stakeholders
 - Develop screening modeling inputs and which measures to include
 - Make recommendation to the Commission

Measure Development Process

- Next Steps
 - Continue work on the remaining control measures from original list
 - Identify new measures

