

Metropolitan Washington Clean Diesel Projects: Update



Presentation for MWAQC -
June 22, 2011



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EPA Clean Diesel Program Diesel Emission Reduction Act (DERA)

- Congress appropriated funds under DERA for EPA to fund projects targeting old legacy high polluting diesel engines.
- COG is an eligible recipient.
- COG actively pursuing opportunities to clean up diesel fleets in our region.
- COG has applied for and was awarded grant funding from EPA Region III in Philadelphia for diesel emission reduction projects.



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MWCOG's Diesel Emission Reduction Projects



- Awarded 2008/2009
 - Nonroad Construction Equipment in Maryland
- Awarded 2009/2010
 - Passenger Vessel Operations in the Port of Alexandria, VA
 - Prince William County Landfill Equipment
- 2010 Project with District DOE
 - Anti-Idling Campaign/Driver Recognition
- Recent 2011 Award
 - Pending – Rail Project



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Offroad Construction Project

- Proposal
 - 27 non-road highway equipment
 - 3 owners
 - Combination of engine upgrades, engine repowers, and diesel particulate filters
 - Partner with Maryland Department of the Environment (MDE) Partner
- 2+ year project, not ARRA, ends June 2011



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Construction Project Results to Date

- Equipment Solutions
 - 9 Engine Upgrades
 - 1 Repower
 - 3 DPF
- Air Quality Benefits
 - 12 tpy NOx
 - 1.4 tpy PM
- M&V Visits and Owner Reports



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Marine Engine Project Results to Date

- 4 Engines replaced on 2 Passenger Vessels
Owner/Partner: Potomac River Boat Company in Old Town Alexandria
- 13 tpy NOx and ~1 tpy PM
- Further outreach planned through the Passenger Vessel Association (PVA)



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Benefits of the Marine Engine Repower

Lower PM Emissions

< Before (note smoke)

(running clean)
After >

Other Benefits:

- Runs at lower RPM
- Quieter
- Less Vibration
- Lower NOx Emissions
- Lower Maintenance between Repowers



COG, CAT, and Luckstone Team 777 Repower



777 Engine Label



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Reliable Yard



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Rubber Loader DPF



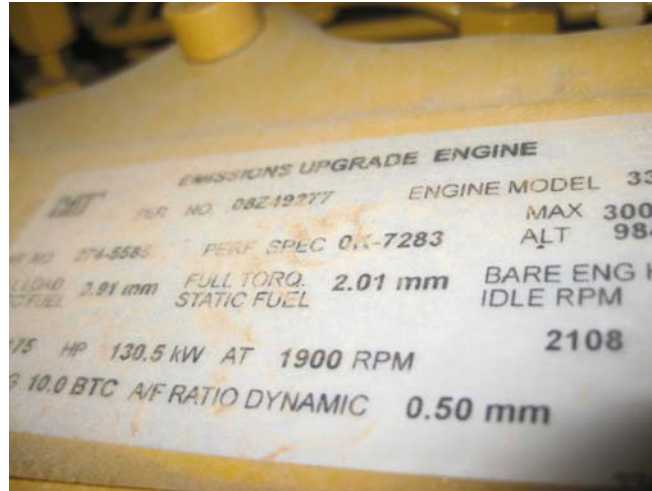
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Asphalt Plant Loader DPF



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Engine Upgrade Label



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Nonroad Highway Construction Equipment



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Marine Engine Repowers: Miss Mallory and Matthew Hayes



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Marine Engine Repower



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To get involved with COG's Diesel Emission Reduction Initiative

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