

Metropolitan Washington Clean Diesel Projects: Update



Presentation for MWAQC -
June 22, 2011



1

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.



2

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



3

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



4

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



5

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)



6



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



Rubber Loader DPF



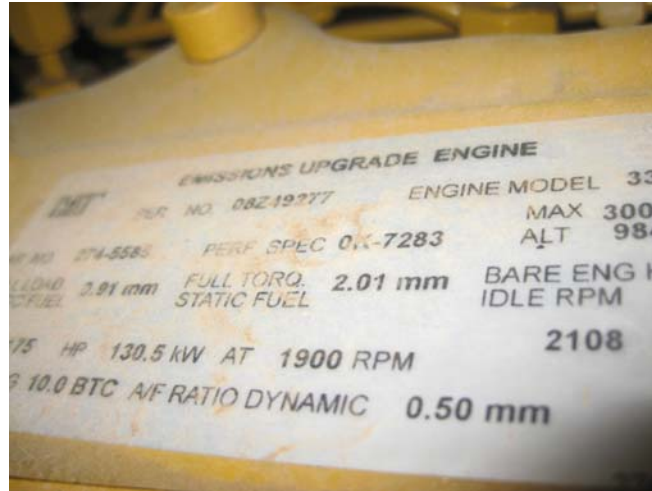
11

Asphalt Plant Loader DPF



12

Engine Upgrade Label



13

Nonroad Highway Construction Equipment



14

Marine Engine Repowers: Miss Mallory and Matthew Hayes



To get involved with COG's Diesel Emission Reduction Initiative

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