

Port of Tacoma Straddle Carrier Retrofit with Diesel Oxidation Catalysts



EPA Voluntary Diesel Retrofit Program Technology Demonstration Assistance Agreements to Benefit Sensitive Populations

- \$ 75,000 Grant from EPA
- Total project cost: \$ 83,251.53
- Award Nov 23 2004
- Completion Nov 21 2005

- DOC's provided by Cummins Northwest
- 2 month lead time for Doc's.
- 3 weeks installation time (performed by Port of Tacoma Maintenance Dept.) 56 engines and 60 DOC's
- Why DOC's?

- DOC's cost \$892.40
- Each DOC average install cost, \$409.12
- Port of Tacoma now requires DOC's to be factory installed by vendor on all new machines.
- Lessons learned

- As part of this Grant Award the Port of Tacoma switched from low sulfur diesel to ultra low sulfur diesel.
- Cost is approx.4 cents/gallon increase
- Sulfur dioxide reduction of 1 ton/year with current annual fuel use.

- Questions / Comments?
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- Thank You