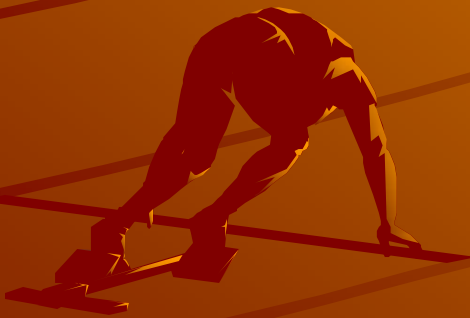


Clean Air Fleets Program Phase II Implementation



Steve McCannon
RAQC Meeting 03/01/07

Phase II Progress Report

- ◆ Contract signed between RAQC and CDOT in January 2007
 - Two year \$2.7M federally funded project through 2008
- ◆ Began planning meetings with 24 Phase II fleets at the beginning of February
 - Both fleet and financial personnel attended
- ◆ Contractor has inspected 90% of bus fleets
 - Contractor started school bus installations week of 02/19/07
- ◆ Contractor will begin inspecting local government fleets in March
 - Installations will begin this summer

Phase II Progress Report – Cont.

- ◆ As of today we anticipate installing:
 - 580 diesel oxidation catalysts
 - 400 closed crankcase filtration
 - 530 engine preheaters
- ◆ One additional piece of equipment we will be purchasing is hydraulic tank heaters (for automated trash trucks, etc.)
 - Bidding equipment through Thornton
- ◆ We will continue to seek interest in both diesel particulate traps and diesel multistage filters


Phase II Outreach

- ✦ Focus outreach to nonparticipating fleets through all avenues
 - National and State conferences, trade shows, one on ones and industry publications
 - We have developed a waiting list for fleets
- ✦ Focus to continue replication outside Denver area
 - RAQC project brought about partnership with CDPHE on Pueblo project
 - RAQC project has influenced projects in Aspen, CO, Ohio, Idaho and Utah
- ✦ Outreach has brought about interest from private sector

CYFBS Phase II

	Total Funding	2007	2008
Denver	\$ 208,000	\$ 104,000	\$ 104,000
Littleton	\$ 10,000		\$ 10,000
Aurora	\$ 100,000	\$ 50,000	\$ 50,000
Adams 50	\$ 78,000	\$ 39,000	\$ 39,000
Mapleton	\$ 33,000	\$ 33,000	
Adams 12	\$ 61,000	\$ 61,000	
Thompson	\$ 10,000	\$ 10,000	
Cherry Creek	\$ 89,000	\$ 44,500	\$ 44,500
St. Vrain	\$ 137,000	\$ 68,500	\$ 68,500
Jeffco	\$ 133,000	\$ 66,500	\$ 66,500
Douglas County	\$ 57,868	\$ 57,868	
Spiracle Filters	\$ 31,320	\$ 15,660	\$ 15,660
Total Requested	\$ 948,188	\$ 550,028	\$ 398,160

CORP Phase II



	Total Funding	2007	2008
CDOT	\$ 600,000	\$ 300,000	\$ 300,000
Denver	\$ 220,000	\$ 110,000	\$ 110,000
Englewood	\$ 52,000	\$ 52,000	
Brighton	\$ 36,000	\$ 36,000	
Littleton	\$ 40,000	\$ 40,000	
Castle Rock	\$ 18,700	\$ 18,700	
Thornton	\$ 74,000	\$ 74,000	
Arvada	\$ 104,000	\$ 52,000	\$ 52,000
Louisville	\$ 42,000	\$ 42,000	
Lakewood	\$ 76,000	\$ 38,000	\$ 38,000
Broomfield	\$ 8,000	\$ 8,000	
City of Boulder	\$ 80,000	\$ 40,000	\$ 40,000
Boulder County	\$ 84,000	\$ 42,000	\$ 42,000
Spiracle Filters	\$ 17,040	\$ 8,520	\$ 8,520
Total Requested	\$ 1,451,740	\$ 861,220	\$ 590,520

Rocky Mountain Clean Diesel Collaborative

- ✦ Our first conference was a great success
- ✦ Continuing to build momentum and Collaborative structure
 - Using forum as a clearing house of information on funding and program development
 - Potentially modeling future efforts on WRAP by identifying a lead in each state
- ✦ Outreach brought interest from private fleets and assisted development of other projects outside Denver

Pueblo Retrofit Partnership

- ◆ CDPHE leading the effort with RAQC technical assistance
- ◆ State RMS SEP project of \$200,000 is 75% complete
 - 76 preheaters completed
 - Bidding out CCF
- ◆ Xcel Project \$250,000
 - Funds for additional \$140,000 for continued work on school buses
 - Potential \$60,000 more for school buses
 - \$50,000 allocated to retrofitting 10+ municipal buses

EPA APU Grant

- ◆ Requested \$100,000 for auxiliary power units (APUs) for over the road trucks
 - In grant review process at EPA
- ◆ APUs reduce the need for idling by 3,000 hours annually saving upwards of 4,000 gallons of fuel per APU
 - Equates to approximately \$10,000 in fuel savings annually per APU
- ◆ Already have 15 fleets signed up to participate
- ◆ Purchase between 10 – 20 units depending on the bid price

Suncor SEP

- ✦ Working with Suncor and EPA to implement a \$200,000 SEP funded retrofit project
 - In approval process at EPA
- ✦ Project encompasses on-road fleets in NE Denver
- ✦ Have opportunity to work with both private and public fleets

D.I.R.T.

- ◆ \$75,000 EPA grant
 - This is a Phase I holdover project
- ◆ Installing both DOC and CCF on eligible vehicles
- ◆ Installed on 4 dump trucks at Commerce City
- ◆ Installing on up to 19 dump trucks, water trucks and maintenance trucks with Brannan Sand & Gravel
 - All CCF installed with DOC completion date by end of April

Conclusion

- ◆ Total potential Phase II funding of \$3.4M for retrofit efforts through 2008
 - Expended \$1.6M in Phase I
- ◆ Up to 2,000 total retrofits in Phase II
 - Installed 1,160 retrofits in Phase I
- ◆ Continued outreach on idling and retrofits
 - Provided outreach and education to over 200 fleets, government agencies and organizations since 2002