



**METROPOLITAN
TRANSPORTATION
COMMISSION**

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Memorandum

TO: Transit Finance Working Group

DATE: October 7, 2009

FR: Glen Tepke

RE: Bus Emission Filter Upgrades

Background

MTC funded the procurement of approximately 1,600 Cleaire Longview bus emission reduction devices with \$14 million in CMAQ funds in FY04 and FY05. The devices have a life of five years and are now coming due for replacement. It is our understanding that these devices need to be operable in order to meet CARB requirements. In addition, new, redesigned devices would help operators meet new CARB NOX standards. The estimated replacement cost is \$14,330 per bus. This issue was brought to the attention of MTC staff by a couple of the region’s transit operators, as well as the equipment vendor.

Cost of Replacing Current Inventory

The devices were installed on approximately 1,600 buses with engine model years ranging from 1994 to 2003. Buses with newer engines do not require the filters. Some of the buses with installed devices have since been retired. Based on bus data in the Regional Transit Capital Inventory and reports from some of the participating transit operators, MTC staff estimates that about 1,300 of these buses are still in service.

Replacing the emission devices on all 1,300 buses would cost approximately \$19 million, as detailed in the accompanying table. The total is equal to approximately 2% of the combined operating budgets of the affected operators, though the percentage is significantly higher for a few operators.

Estimated Cleaire Device Replacement Costs

Operator	No. of Buses	Est. Device Repl. Cost
AC Transit	328	\$4,700,240
CCCTA	131	1,877,230
Fairfield Transit	19	272,270
Golden Gate Transit	46	659,180
LAVTA	25	358,250
SFMTA	375	5,373,750
SamTrans	127	1,819,910
Santa Clara VTA	129	1,848,570
Santa Rosa City Bus	18	257,940
Tri-Delta	55	788,150
Vallejo Transit	38	544,540
WestCat	25	358,250
Total	1,316	\$18,858,280

Next Steps

MTC staff requests the following information from the affected operators:

- The quantity of buses with installed Cleaire Longview devices still in service, by model (standard transit bus vs. over-the-road coach) and model year; and
- How each operator intends to address the replacement of the devices.

Please provide this information to Glen Tepke at gtepke@mtc.ca.gov by Friday, October 16. MTC staff will bring this issue back to the TFWG in November with a summary of the responses and potential funding approaches.