



Request for City Council Committee Action From the Department of Public Works

Date: October 11, 2005

To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee

Subject: **Authorization to accept a \$9,300.00 grant from Minnesota Environmental Initiative to retrofit eight 1998 diesel trucks with oxidation catalytic mufflers**

Recommendation:

That proper City officers are authorized to enter into an agreement with Minnesota Environmental Initiative to accept the grant money and with Donaldson Company for installation of oxidation catalytic mufflers. Fund-Agency-Org 6100-675-6752, Revenue Source 345501 and Job # 675E0000 will be used for recording the revenue and expense.

Prepared by: Prab Rao, Equipment Services Division

Approved by: Richard H. Smith, Jr.
Klara A. Fabry, P. E., City Engineer, Director of Public Works

Presenter: Prab Rao, Director of Equipment Services Division

Financial Impact (Check those that apply)

- No financial impact - or - Action is within current department budget.
(If checked, go directly to Background/Supporting Information)
- Action requires an appropriation increase to the Capital Budget
- Action requires an appropriation increase to the Operating Budget
- Action provides increased revenue for appropriation increase
- Action requires use of contingency or reserves
- Other financial impact (Explain):
- Request provided to the Budget Office when provided to the Committee Coordinator

Background/Supporting Information

To gain environmental and health benefits in Minneapolis, Minnesota Environmental Initiative has offered grant money to cover all costs associated with installing oxidation catalytic mufflers on eight City of Minneapolis dump trucks. Equipment Services Division of Public Works has identified eight suitable 1998 Ford trucks for this purpose.

The catalytic converters are similar in nature to those found in all automobiles. They convert carbon monoxide, a poisonous gas, to carbon dioxide, which is not poisonous. Although the greenhouse

gas emissions are not reduced, any reduction in the release of carbon monoxide is a health benefit to the residents.

Diesel muffler designs have evolved to reduce many harmful emissions. Most of them require ultra-low sulfur fuels (available from late 2006) and are quite expensive. This grant money will help Public Works Equipment Services Division personnel gain first-hand knowledge of such new technology without additional expense and enable us to formulate acquisition policies in future to reduce emissions further.

Att: Letter from Minnesota Environmental Initiative

CC: Steve Kotke, Public Works

September 7, 2005

Prab Rao, Director of Equipment Services
William Gauthier, Maintenance Manager
City of Minneapolis
1200 Currie Avenue North
Minneapolis, MN 55403

Dear Prab and Bill:

Thank you for meeting with me last week to forward our project and to gain environmental and health benefits in Minneapolis.

This effort furthers the City of Minneapolis' (the City) work to improve air quality under Resolution 2003R-39. This truck retrofit project is especially important as the Minnesota Pollution Control Agency reports that nearly half of the air pollution in Minnesota comes from mobile sources. According to the U.S. EPA, for each truck the retrofit reduces emissions of particulate matter by at least 20 percent, hydrocarbons by 50 percent and carbon monoxide by 40 percent.

As we discussed, the Minnesota Environmental Initiative's Clean Air Minnesota (CAM) program will pay the equipment acquisition and installation costs associated with retrofitting eight (8) of the City's 1998 Ford LT9513 trucks. The retrofit equipment for each truck will be a Donaldson Company diesel oxidation catalyst and the appropriate installation fittings.

The total cost of this effort with the City is expected to be under \$9300. The equipment acquisition costs are estimated at approximately \$8300. Installation costs are estimated to be approximately \$960. Payment will be made to the City within seven (7) days of receipt of an invoice(s) for the retrofit equipment and installation costs.

As part of the project, while the City uses the retrofitted trucks, annual fuel usage (both fuel type and amount) and mileage for each truck will be provided to CAM. Clean Air Minnesota will use the information to quantify the emission reductions associated with the retrofit on each truck. We will share this information with the City.

Thank you again for your assistance and willingness to participate. Please contact me with any other questions.

Sincerely,



William J. Droessler, program director
Clean Air Minnesota