

**Washington Metropolitan Area Transportation Authority
Board Action/Information Summary**

Action
 Information

MEAD Number:
99661

Resolution:
 Yes No

PURPOSE

Modify contract FN3036 to upgrade Bus Exhaust System Hoses.

DESCRIPTION

Contract FN3036 was awarded in January 2004, for \$1,379,552 to install new bus exhaust extraction systems at WMATA bus repair shops. Two types of flexible hoses were installed to connect the bus tail pipe to the exhaust extraction system. High temperature rated hoses were installed at facilities that serviced Compressed Natural Gas fired buses and standard temperature rated hoses were installed at all other locations. The standard temperature rated hoses are suitable for conventional diesel engines running at idle speed continuously or running at high idle speed for short periods of time.

The recent and ongoing programs to improve diesel bus performance and reduce particulate (soot) emissions have resulted in substantially elevated bus exhaust gas temperatures. One outfall of these improvement initiatives is that the standard temperature exhaust gas hoses which are rated at less than 500 degrees Fahrenheit on the bus exhaust extractions systems are no longer suitable for the expected temperature range of the diesel exhaust gases. The new and upgraded buses can be expected to produce exhaust temperatures above 1,100 degrees Fahrenheit. Under both normal and abnormal conditions the exhaust temperature could reach 1,400 degrees Fahrenheit.

A new high temperature hose has been identified and successfully tested at one location. ULOK 1500 hose is rated for 1,500 degrees Fahrenheit. The hose temperature rating is above the maximum expected temperature for bus exhaust gas conditions. The standard temperature rated hoses must be replaced with higher temperature rated hoses. In order to complete the program, WMATA requires an additional sixty-one hoses at seven shops require replacement for an estimated amount of \$190,000. Board approval is requested in accordance with

Resolution 97-31, amount of modification is greater than 10% of the award value.

FUNDING IMPACT

Budget: Infrastructure Renewal Program, Fiscal 2007-2010

Project Title: Bus/Rail Support Equipment

Line Item Budget - \$55,058,000

This Action - \$190,000

RECOMMENDATION

Modify contract FN3036 to upgrade Bus Exhaust System Hoses.