

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

Action  
 Information

MEAD Number:  
99614

Resolution:  
 Yes  No

### PURPOSE

To obtain Board approval to initiate and award a competitive multi-year contract for the Upgrade of the Station Processors at 63 WMATA rail stations.

### DESCRIPTION

Within the Train Control Room (TCR) of each station are non-vital "J" relays that control station stopping, platform edge lights and the time the train dwells in the station. Relays are electro-mechanical devices that have been traditionally used in train control applications. Non-vital relays are being phased out of train control systems worldwide and replaced with computer logic, consisting of a printed circuit board and programmable logic chips. Relays are increasingly difficult to repair or procure; in addition, they are becoming obsolete. Station processors already exist at these stations; new printed circuit boards will be installed to update existing processors. The contractor will remove the old relays and furnish, install and test upgraded processors.

The current system has been in place since the rail system opened in 1976. Improvements in technology have allowed computer logic to replace relay logic. The manufacturer no longer supports the "J" relays. As the "J" relays age and fail there will be serious interruptions to passenger service. Replacement relays have become more difficult to procure. Therefore, there is no reasonable alternative to this procurement action.

## **FUNDING IMPACT**

Infrastructure Renewal Program, Fiscal 2007-2010

Project Title is ATC Power Systems Replacement

Line Item Budget - \$30,272,000.00

Budget This Action - \$5,234,000.00

Prior Actions - \$1,030,000.00

Subtotal - \$6,264,000.00

Remaining Budget - \$24,008,000.00

## **RECOMMENDATION**

To obtain Board approval to initiate and award a competitive multi year contract for the Upgrade of the Station Processors at 63 WMATA rail stations.