

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

<input checked="" type="radio"/> Action <input type="radio"/> Information	MEAD Number: 100514	Resolution: <input type="radio"/> Yes <input checked="" type="radio"/> No
---	------------------------	--

**TITLE:**

Upgrade and enhance Rail Modeling Software

**PURPOSE:**

To request Board approval to change funding of the RAILSIM version 8 software license upgrade from operating to capital, to exercise three options on the contract, and to award a five-year licensing contract that allows future upgrades. The options add sytem-wide Traction Power Sub-Station load flow analysis capability, improved operation simulation and calibration functions and incorporates the 6000 Series railcars rolling stock library into the working database.

**DESCRIPTION:**

The Department of Rail Operations Delivery is responsible for providing Metrorail service and maintaining the entire Metrorail system. In order to effectively update the system infrastructure that meets precision stopping requirements, Rail requests the purchase of the RAILSIM version 8 license and precision stopping software upgrade. This request uses resources wisely and will aid Metro in delivering quality service.

RAILSIM software provides a highly sophisticated model of the operating rail system. It incorporates the physical data, properties and functional characteristics of the railcars, trackway, switches, power and control systems components and the latest train schedules. These simulations will identify problem areas, permit the development of solutions and enable the optimization of schedules and equipment in relation to passenger demand. The software is also used to validate actual operaing data.

The current version 6.5 operates in a DOS environment. The upgrade will transition the software to Windows significantly improving its utility.

This action requests Board approval to: a) use capital funds for the license agreement and software upgrade; b) to exercise options to include system-wide traction power substation load flow analysis, operation simulation and

calibration, incorporate the 6000 series rolling stock library; and c) to award a five-year license contract that allows future upgrades.

**FUNDING IMPACT:**

Program:	FY2010 Capital Improvement Program
Project:	8-Car Precision Stopping PC_PREC
Budget:	\$992,091
This Action:	\$466,000
Prior Approval:	\$451,628
Remaining Budget:	\$ 74,463
Remarks:	None
Operating Budget Impact:	There is no operating budget impact.

**RECOMMENDATION:**

Approval to use capital funds for the RAILSIM version 8 software license upgrade, exercise three options on the contract, and award a five-year license contract that allows future upgrades.