

Washington Metropolitan Area Transit Authority
Board Action/Information Summary

<input checked="" type="radio"/> Action <input type="radio"/> Information	MEAD Number: 100562	Resolution: <input checked="" type="radio"/> Yes <input type="radio"/> No
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TITLE:

JGB Power Distribution Unit Replacement

PURPOSE:

To obtain Board approval to initiate and award contracts to replace the 37-year-old electrical power distribution unit (PDU) systems located at the Jackson Graham Building (JGB). A recent failure of the JGB (PDU) electrical system left Metro in a state of emergency that significantly affected customers and impacted operational capacity including communications and safety support systems.

DESCRIPTION:

The Office of Administrative Programs and Services is responsible for maintenance and operations of Metro's headquarters building located at 600 Fifth Street, NW, Washington DC. The facility is operating with mechanical, electrical and plumbing equipment that has exceeded its manufactured life cycle.

Continuity of Metro operations greatly depends on fully-functional equipment that includes redundancy and incorporates state-of-the-art electrical systems to sustain electrical loads that will support future data systems.

This action will install industry standard, state-of-the-art, commercial building power distribution systems in the JGB Penthouse Mechanical Engineering Room to increase availability and reduce risk of failure. The PDU systems will use detection sensors to signal alarms and send alerts to dispatch the necessary personnel to immediately address and restore services with limited impact to services.

Metro Data Center operations were severely impacted by the recent major catastrophic incident that brought down all computerized systems and damaged some of the critical electronic components built inside the various hardware systems. Many customer-related communications and services were affected, such as Next Bus, the MetroAccess reservation system, the public announcement system and the Metro Web site as well as computer software applications including Maximo, Trapeze and PeopleSoft.

In order to provide funding for this critical project that Metro shall the transfer of \$2.5M in funding from the Maintenance Facilities line item of the FY10 Metro Matters Capital Budget, reducing that line item from \$133.9M to \$131.4M; \$1.5M in funding from Urgent Capital Needs Projects line item of the FY10 Metro Matters Capital Budget, reducing that line item from \$94.2M to \$92.7M; and increasing the Systems line item of the FY 10 Metro Matters Capital Budget from \$200.4M to \$204.4M for the establishment of a new project entitled JGB Power Distribution Unit Replacement for a total of \$4M.

Funding transferred from the deferral of the \$2.5M from Maintenance Facilities and the \$1.5M from the Urgent Capital Needs Projects shall be addressed in the Fiscal Year 2011 Capital Funding agreement.

FUNDING IMPACT:

Budget: Capital Improvement Program
Project: PE_PWDUPWO1001

Budget Information:	FY10
Budget Amount:	\$4,000,000
This Action:	4,000,000
Prior Actions:	\$0
Subtotal:	\$4,000,000
Remaining Budget:	\$0

Operating Budget Impact: The operating budget is not negatively impacted.

RECOMMENDATION:

1. Authorization to transfer \$2.5M in funding from the Maintenance Facilities line item of the FY10 Metro Matters Capital Budget, reducing that line item from \$133.9M to \$131.4M; \$1.5M in funding from Urgent Capital Needs Projects line item of the FY10 Metro Matters Capital Budget, reducing that line item from \$94.2M to \$92.7M; and increasing the Systems line item of the FY 10 Metro Matters Capital Budget from \$200.4M to \$204.4M for the establishment of a new project entitled JGB Power Distribution Unit Replacement for a total of \$4M.
2. Approval to initiate and award competitive procurement(s) to provide and install all necessary power distribution equipment in the JGB headquarters in support of all building power systems and power sources.

**SUBJECT: JACKSON GRAHAM BUILDING POWER DISTRIBUTION UNIT
REPLACEMENT**

**2009-75
RESOLUTION
OF THE
BOARD OF DIRECTORS
OF THE
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

WHEREAS, On November 4, 2009, a 37-year-old Power Distribution Unit (PDU) that serves Metro's downtown headquarters building failed at 2:45 A.M. This resulted in the loss of several critical functions for Metro, many of which affected customer-related communications and services; and

WHEREAS, Metro Data Center Operations was severely impacted with a major catastrophic incident bringing down all computerized systems and damaging some of the critical electronic components built inside the various hardware systems. Many customer-related communications and services were impacted such as; NextBus, MetroAccess reservation system, public announcement system and the Metro Website, as well as computer software applications including Maximo, Trapeze and PeopleSoft; and

WHEREAS, Metro does not have a back-up power and the continuity of Metro operations greatly depends on fully-functional, industry standard best practices, to include redundancy and next generation state-of-the-art electrical systems to sustain electrical loads to support future data systems; and

WHEREAS, Staff recommends that in order to prevent a re-occurrence of this major catastrophic incident, that Metro procure and install an industry standard, state-of-the-art, commercial building PDU system in the Jackson Graham Building Penthouse Mechanical Engineering Room. The proposed PDU systems will have the capability to use detection sensors to signal alarms and alerts to dispatch the necessary personnel to immediately address and restore services with limited impact to services; and

WHEREAS, Metro does not have funding available from contingency sources to replace the PDU; and

WHEREAS, Staff now recommends that in order to provide funding for this critical project, that Metro reallocates \$4M from other Metro Matters Projects; now, therefore be it

RESOLVED, That the Board of Directors authorizes the transfer of \$2.5M in funding from Maintenance Facilities, reducing the budget from \$134.1M to \$131.6M; \$1.5M from Urgent Capital Needs, reducing the budget from \$94.7M to \$93.2M; and an increase to Systems by \$4M, from \$206.9M to \$210.9M for the establishment of a new project titled Jackson Graham Building Power Distribution Unit Replacement for a total project budget of \$4M; and be it further

RESOLVED, That the \$2.5M funding from the Maintenance Facilities; the \$1.5M from the Urgent Capital Needs; and the \$4.M from Systems shall be addressed in the Fiscal Year 2011 Capital Program; and be it further

RESOLVED, That Staff is authorized to initiate and award contracts to replace the Jackson Graham Building Power Distribution Unit; and be it finally

RESOLVED, That this Resolution shall be effective immediately.

Reviewed as to form and legal sufficiency,



Carol B. O'Keeffe
General Counsel