



(Board Copy)
Washington Metropolitan Area Transit Authority
METRO ELECTRONIC ACTION DOCUMENT

IDENTIFICATION			
MEAD ID:	93420	ACTION:	Initiate & Award
AWARD VALUE:	(Not yet awarded)	CONTRACT: (Proposed)	
FUND SOURCES: (View)	Infrastructure Renewal Program	CONTRACTOR:	
LAST MODIFIED:	06/08/2005		

DESCRIPTION	
SUBJECT:	Replace ATC Track Circuits at up to 22 Stations Replace 35 Remote Terminal Units (RTUs)
PURPOSE:	To request Board approval to initiate and award competitive contracts for engineering, manufacture, and delivery of state-of-the-art Automatic Train Protection (ATP) track circuit systems at up to (22) stations and replace Remote Terminal Units (RTU), at (35) Train Control Rooms (TCR).

ORIGINATION			
INITIATOR		DEPARTMENTAL APPROVAL	
SHERRY SINTON on 04/14/2005		Not Approved Yet	
PHONE:	202-962-1795	OFFICE:	IRPG
DEPT:	Capital Projects Manageme		

COORDINATION (ROUTING)		
OFFICE	NAME	ACTION/DATE
IRPG (4700)	COUCH, DAVID	Approved 04/21/2005
COOR (3310)	FEIL, STEVE	Re-assigned 04/25/2005
COOR (3310)	FEIL, STEVE	Re-assigned 04/25/2005
COOR (3310)	FEIL, STEVE	Approved 04/25/2005
OPAS (3161)	HUGHES, JAMES	Re-assigned 05/09/2005
PRMT (7400)	ZINGALE, JAMES	Approved 05/11/2005
AGMM (4100)	SALPEAS, PANAGIOTIS	Approved 06/01/2005
OPAS (3161)	HUGHES, JAMES	Approved 06/02/2005

FINAL APPROVALS	
OFFICE	NAME/ACTION
PLN DEV CMTE	PANAGIOTIS SALPEAS (Not Yet Approved)
OPER CMTE	JAMES HUGHES (Not Yet Approved)
PLN DEV CMTE	Approved for AGMM by PANAGIOTIS SALPEAS on 06/01/2005
BEMR	PAMELA WILKINS (Not Yet Approved)
OPER CMTE	Approved for OPAS by JAMES HUGHES on 06/02/2005
GM	GMGR CEO (Not Yet Approved)
GM	Approved for GMGR by GMGR CEO on 06/09/2005
BOARD	BOARD WMATA (Not Yet Approved)



Washington Metropolitan Area Transit Authority METRO ELECTRONIC ACTION DOCUMENT

NARRATIVE

The ATP system maintains safe transit operation, including train detection, train separation at interlockings, and speed limit enforcement. The ATP system is comprised of track circuits which contain transmitter/receiver modules, low impedance bonds (Wee-Z Bonds), coupling units, two and four foot loop transmitters, transformers, and interlocking control circuits. The current ATP modules are obsolete, they have been in place at some stations since the rail system opened and are no longer supported by the manufacturer. They will be replaced with state-of-art ATP circuitry. This is the first major contract for replacement of the track circuits on the oldest portion of the Red Line. One previous contract replaced track circuits for a portion of the Orange Line between Deanwood and New Carrollton Stations.

The Remote Terminal Unit (RTU) is a communication device installed in all mainline train control rooms and is the interface unit between the ROCS computer system and ATC wayside equipment and station support equipment. The RTU is responsible for transferring control commands and receiving status information to and from the ATC wayside and station support equipment. The RTUs have been in service over 25 years and replacement parts are no longer available. The replacement of existing RTUs with new Microprocessor Based RTUs will provide latest technological equipment which will be easier to maintain. The new RTUs will be connected to provide for system for redundancy and reliability.

ALTERNATIVES:

The Automatic Train Protection system is essential for the safe operation of the rail system. The RTUs are the vital link between OCC and station and wayside equipment. There is no reasonable alternatives to this procurement action.

IMPACT ON FUNDING:

Budget: Infrastructure Renewal Program, FY 2005-2010
Budget: Metro Matters Resolution #2004-53 FY2005-2010
Program ATC and Power System Replacement
Project Title Mid Life Rehabilitation ATC

	METRO MATTERS***		
Budget Information:	<u>FY2005</u>	<u>FY2006-2010</u>	<u>Total</u>
Line Item			
Budget**	\$64,792,500.00	\$146,029,000.00	\$210,821,500.00
This Contract			
Action	\$9,515,093.00	\$8,174,000.00	\$17,689,093.00
Prior Actions	\$43,273,802.00	\$0.00	\$43,273,802.00
Subtotal	\$52,788,895.00	\$8,174,000.00	\$60,962,895.00
Remaining Budget	\$12,003,605.00	\$137,855,000.00	\$149,858,605.00

** FY2005 includes IAWP costs which was approved under Mead 74239

*** FY2006-2010 subject to annual availability of funds as defined by

the annual budget approval process.

AFFIMATIVE ACTION REQUIREMENTS:

EEO: Contractors will be required to comply with Executive Order 11246

DBE: Pursuant to the WAMTA Board Resolution #2004-26, the DBE goal for this contract is 12%.

RECOMMENDATION:

To approve the initiation and award competitive contracts for engineering, manufacture, and delivery of state-of-the-art Automatic Train Protection (ATP) track circuit systems at up to(22)stations and replace Remote Terminal Units (RTU), at (35)Train Control Rooms (TCR).