



Finance & Administration Committee

Item III-A

January 13, 2010

**Overview of Program Management Services
and Proposed CIP FY2012-17**

Washington Metropolitan Area Transit Authority
Board Action/Information Summary

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

Overview of Program Management Services & the CIP

PURPOSE:

To provide a status report on the delivery of the Metro Capital Improvement Plan.

Additionally, the presentation shows the evolution of the currently proposed Capital Improvement Program.

DESCRIPTION:

Metro staff have developed a proposed Capital Improvement Program (CIP) for FY2012-17. Included in this proposed CIP is the FY2012 Annual Work Plan (AWP).

The FY2012 AWP will result in capital expenditures of approximately \$851 million in FY2012 and lay the foundation for planned capital expenditures of \$5.1 billion from FY2012 through FY2017.

Key deliverables for the CIP include:

- Replacement of 100 Metro buses and the rehabilitation of 100 more (CIP 005 and CIP 006)
- Replacement of 230 MetroAccess vehicles (CIP 015)
- Retrofitting of 2,700 feet of track floating slabs (CIP 019)
- Rehabilitation of 5,000 feet of track pads/shock absorbers (CIP 021)
- Rehabilitation of 5 miles of third rail (CIP 023) and rehabilitation of 10 miles of running rail (CIP 024)

Parsons-Brinkerhoff (PB) is assisting in the development of an Integrated Program Management Information System to help speed delivery of the CIP, as well as implement the reporting and billing requirements in the Capital Funding Agreement. This includes the development of expenditure forecasts, a cost tracking system, and project delivery risk tracking.

The presentation provides the Finance and Administration Committee and the public with an overview of the process to develop the AWP.

FUNDING IMPACT:

The total Capital Improvement Program budget is maintained at \$5.9 billion.

RECOMMENDATION:

None. This is for information only.



Washington Metropolitan Area Transit Authority

Overview of Program Management Services and Proposed Capital Improvement Plan FY2012-17

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Program Management Information System & Mitigation Activities

Activity	Deliverables
<p>Establish Integrated Program Management Information System (PMIS)</p> <ul style="list-style-type: none">• Master schedule• Cost tracking• Risk tracking• All levels of reporting	<ul style="list-style-type: none">• Quarterly reports 11-15-10 and each QTR• Annual work plan 12-15-10• Master schedule protocol 12-31-10• Cost tracking system 12-31-10• Project delivery risk tracking system 1-31-11• PMIS system integration 4-01-11

Benefits of PMIS:

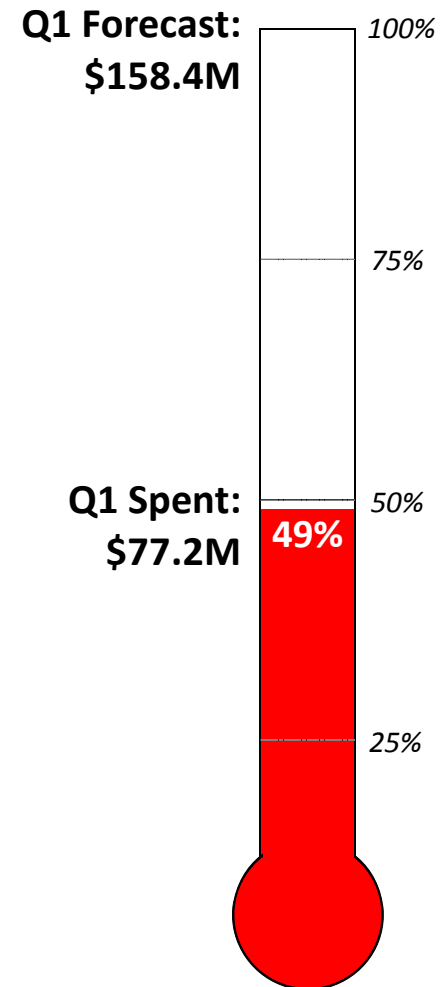
- Enhances programmatic transparency via regular progress reporting
- Identifies & mitigates delivery risks (scope/schedule) before they occur



FY2011 Quarter 1 Progress Report

- New quarterly reporting requirement per June 2010 Capital Funding Agreement (CFA)
- Reviewed CIP project schedules, progress and budget with Metro Project Managers and analyzed Q1 variances over \$2M
- Refined quarterly cash flow forecasts through FY2012 to support jurisdictional Q3 bill
 - *FY2011 CIP expenditure forecast = \$730.3 million*
- Quarterly report will be expanded to include ARRA, reimbursable, and safety & security grant projects

CIP Spending Performance

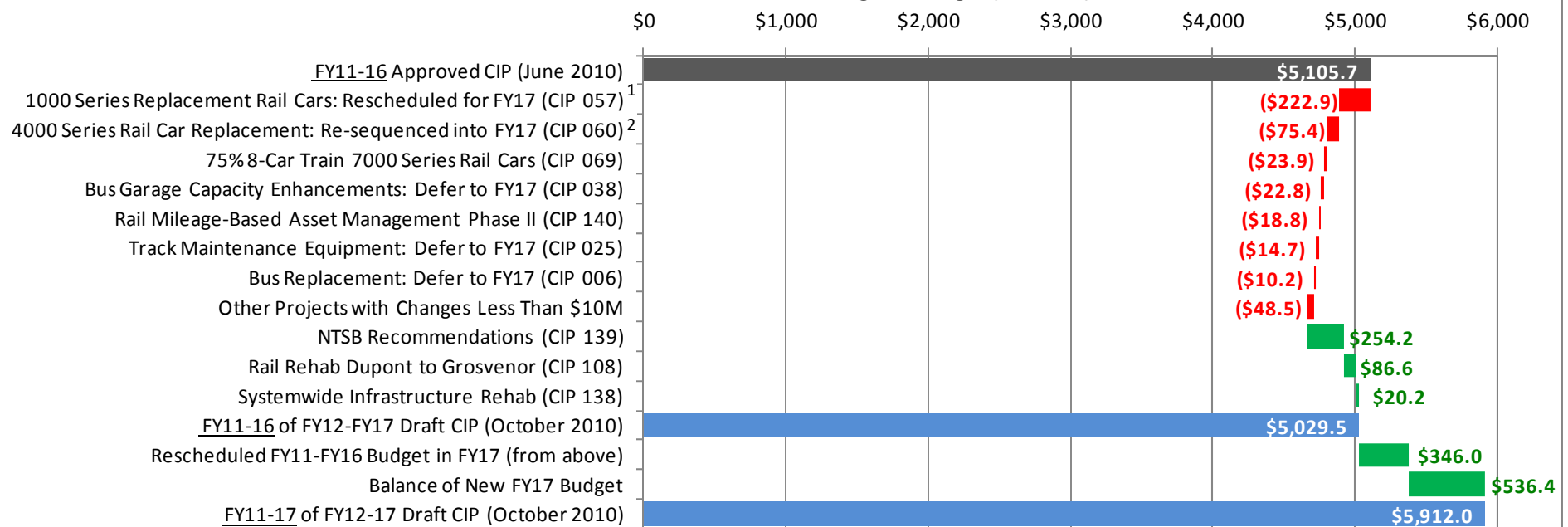




Evolution of FY12-17 CIP Budget from June to October 2010

- NTSB recommendations and additional rehabilitation requirements incorporated
- Project cash flow adjustments/deferrals used to offset additional needs in order to maintain \$5 billion FY11-16 cumulative budget.
- With rescheduled + new budget in FY17, total FY11-16 + FY17 CIP budget is \$5.9 billion.

Program Budget (Millions)



¹Buy America compliance requirements resulted in rescheduling production delivery into fiscal year 2017.

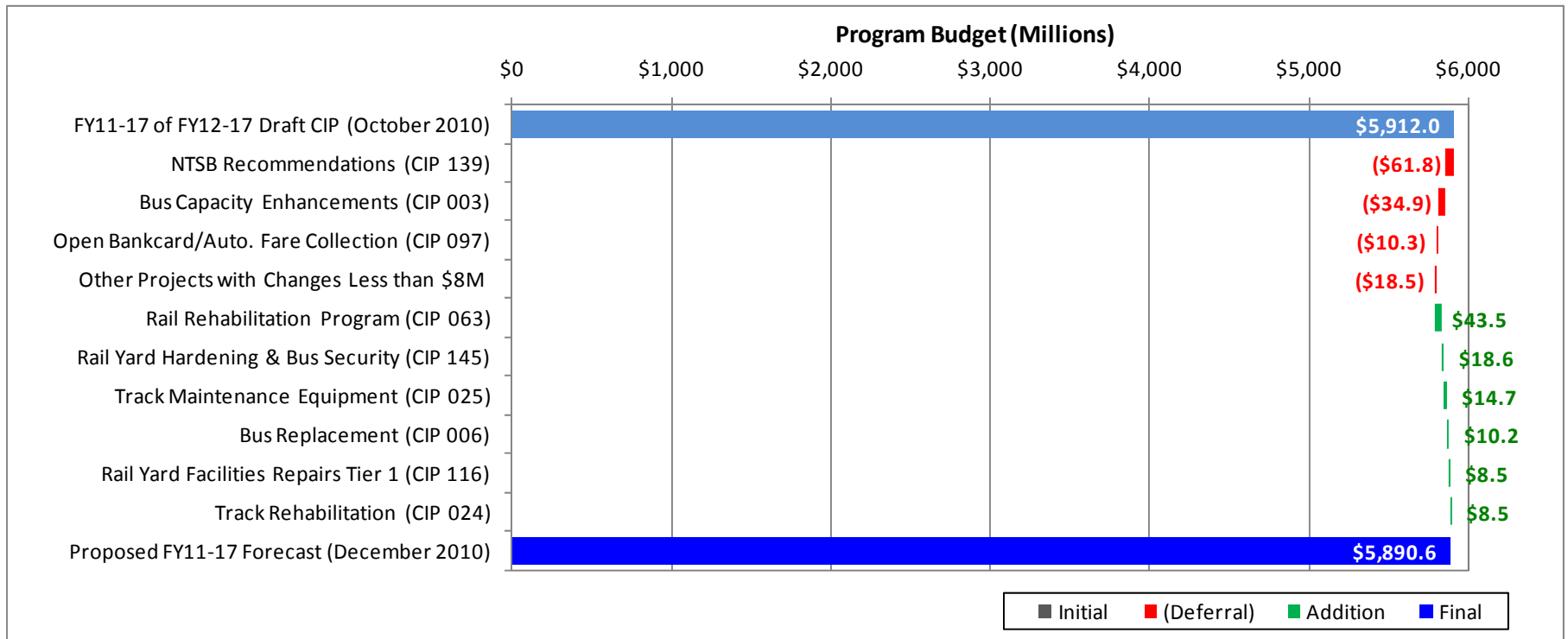
²Re-sequencing with Dulles Phase 2 to meet Dulles expansion requirements.

■ Initial ■ (Deferral) ■ Addition ■ Final



Evolution of FY12-17 CIP Budget from October to December 2010

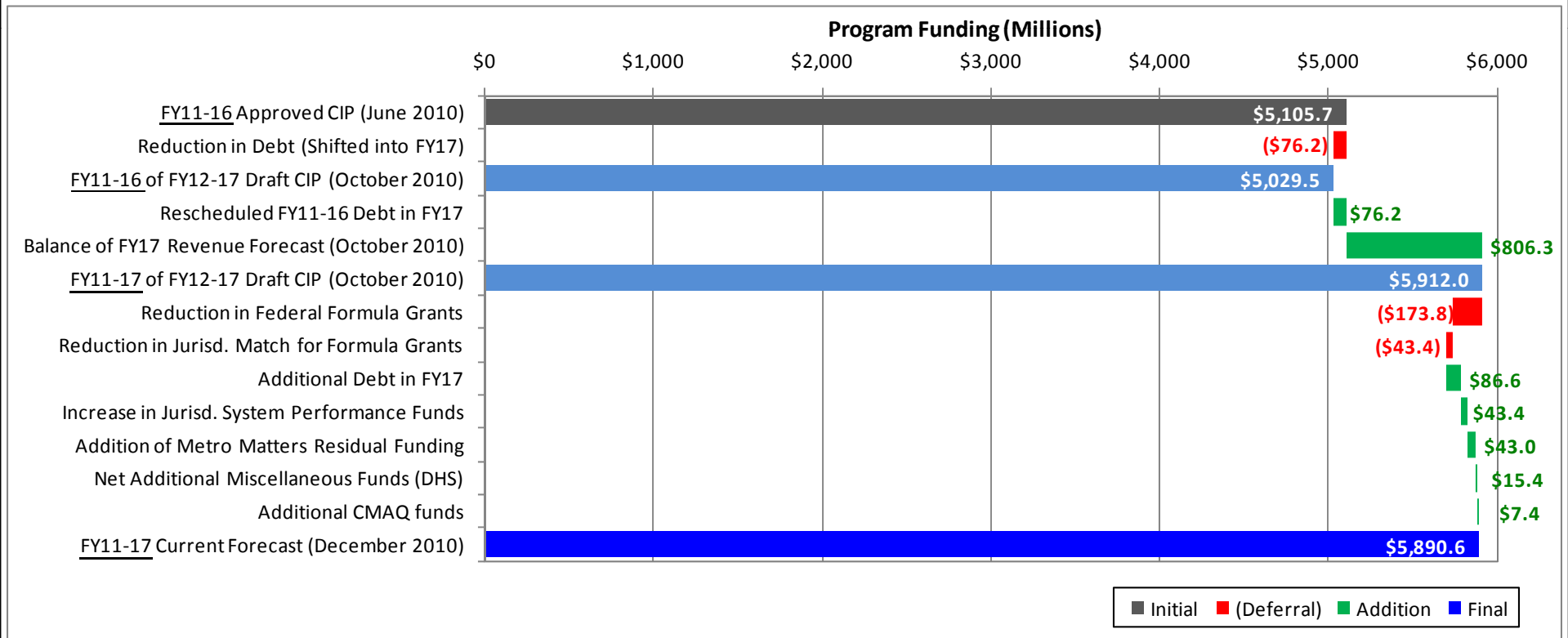
- Reflects adjusted forecast growth assumptions for Federal Funding
- Refined NTSB scope, added state-of-good-repair/safety projects, eliminated enhancement projects
- Total CIP budget for FY11 + FY12-17 CIP is maintained at \$5.9 billion





Evolution of FY12-17 CIP Funding from June to December 2010

- Reduction in Federal funding growth rate assumptions & jurisdictional match
- Offset by additional debt, system performance funds & Metro Matters residual funds





CIP: FY2012 Annual Work Program

State of Good Repair FY12 Key Planned Deliverables

- Replacement of 100 Metro buses & the rehabilitation of 100 more (CIP 005 and CIP 006)
 - Retrofitting of 2,700 feet of track floating slabs (CIP 019)
 - Replacement of 500 signs and 3,000 chain markers (CIP 020)
 - Rehabilitation of 5,000 feet of track pads/shock absorbers (CIP 021)
 - Rehabilitation of 5 miles of third rail (CIP 023)
 - Rehabilitation of 10 miles of running rail (CIP 024)
- Installation of 30 turnouts (incl. NTSB), 15,000 direct fixation fasteners, & 8,000 cross ties (CIP 024)
 - Purchase of 188 units of rail shop repair equipment (CIP 188)
 - Full rehabilitation of 12 Metro stations and mini-rehabilitation of another 12 Metro stations (CIP 087)
 - Installation of 50,000 track fasteners and anchor bolts (CIP 089)
 - Purchase of 150 police handheld radios (CIP 103)
 - Replace TPSS equipment, ATC equipment and ETS boxes/cabling, escalators (CIP 107)
 - Rehab of all of Northern & half of Western Bus Garages, Four Mile Run boiler plant (CIP 119)
 - Track circuit replacements (CIP 139)



Master Schedule/Cost Tracking

- Work Breakdown Structure to include all capital programs
 - *CIP, ARRA, Reimbursable Projects, Safety and Security*
- Initial high level reporting by phase
- Consistent reporting across projects
- Interdependencies among projects
- Quarterly updates
- Web-based access

Project ID	Project Name
◀ WMATA	Washington Metropolitan Transportation Auth...
WM - Contract Type: MASTER	Master Schedule
WMATA-01	Master Schedule - Summary
◀ CIP	Capital Improvement Projects
WM - Contract Type: CIP	Capital Improvements Projects
WM - Contract Type: CIP.ME	Maintenance Equipment
WM - Contract Type: CIP.ME.01	Bus Repair Equipment
CIP004	CIP004 Bus Repair Equipment
WM - Contract Type: CIP.ME.02	Business Facilities Equipment
CIP028	CIP028 Materials Handling Equipment
CIP029	CIP029 Warehouse Vertical Storage Units/Shelving
▶ CNI	Capital Needs Inventory
▶ ARR	ARRA
▶ REI	Reimbursable
▶ PPM	Pre-Metro Matters
▶ SAS	Safety & Security
▶ CLAIMS	WMATA Claims
▶ TS-Detail	Track & Structures - detail
▶ Project Cont	WMATA - Project Control Schedules



Program Delivery Proactive Risk Management Top Projects w/Expenditure Underruns

- **Staff Needed (field staff, contract admin, track rights, escorts)**
 - CIP 107 Red Line Rehabilitation Tier 1
 - CIP 110 Orange and Blue Line Rehabilitation
 - CIP 119 Bus Facility Repair Tier 1
 - CIP 138 Miscellaneous Projects
- **Schedule Refinement/Deferrals**
 - CIP 049 Management Support Software
 - CIP 057 1000 Series Rail Car Replacement
- **Cost Reporting (Operations to Capital Transfer)**
 - CIP 005 Bus Rehabilitation
 - CIP 125, 137, 142, 143 Preventive Maintenance
- **CIP 139 (NTSB) – Scope, Schedule, & Cost Estimate Refinement**



Staff Augmentation for CIP Program Delivery

- **Regulatory Compliance**
 - Safety/Security reporting support
- **Expedite Procurement and Closeout**
 - Contract Administrators
 - Claims support
- **Key Staff for Contract Execution**
 - Office Engineer for Red Line Rehabilitation
 - Inspection support for Bus 1
 - Assistant Project Manager for Orange & Blue Line Rehabilitation
- **Grant Acquisition**
 - Financial Analyst