COMPREHENSIVE MONTHLY REPORT

May 2011

Dulles Corridor Metrorail Project Extension to Wiehle Avenue

Metropolitan Washington Airports Authority Washington, DC

June 30, 2011

PMOC Contract Number: DTFT60-09-D-00016

Task Order Number: 002, Project Number: DC-27-5142, Work Order No. 01

OPs Referenced: 01, 25

Hill International, Inc.

One Penn Square West 30 South 15th Street Philadelphia, PA 19102

PMOC Lead:

Length of Time PMOC Assigned to Project: 10.5 years **Length of Time PMOC Lead Assigned to Project:** 3.0 years

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EXECUTIVE SUMMARY

The Project Management Oversight Contractor (PMOC) met with Metropolitan Washington Airports Authority (MWAA) on *June 8*, 2011 to conduct a monthly progress *update* meeting for work performed in *May* 2011. The PMOC also attended the WMATA/Kawasaki Progress Review Meeting relative to the 7K Railcar Procurement on *June 9*, 2011. The full time on-site PMOC attended various project meetings and site tours throughout this reporting period. Additional information for this report was obtained from MWAA during the *second* week of *June* 2011. Future PMOC monthly progress meetings are planned to occur during the first week of each month.

1. Project Description

MWAA, in cooperation with the Washington Metropolitan Area Transit Authority (WMATA), proposes to implement a 23.1-mile rapid transit system in the Dulles Corridor of Northern Virginia. The proposed corridor follows the alignment of the Dulles International Airport Access Highway (DIAAH) and the Dulles Toll Road within Fairfax County, and the Dulles Greenway, a private toll road in Loudoun County. The Project (Initial Operating Segment) undertakes the construction of the initial 11.7-miles of the rail project from the existing Metrorail Orange Line just east of the West Falls Church (WFC) Station to a station to be constructed at Wiehle Avenue with a total project cost of \$3.142 billion. Included in the Project are five new stations (Tysons East, Tysons Central 123, Tysons Central 7, Tysons West and Wiehle Avenue), improvements to the existing yard at WFC, and tail tracks beyond the Wiehle Avenue station. Sixty-four additional rail cars are required to provide service for the Project. Based on the Full Funding Grant Agreement (FFGA), the Revenue Operations Date (ROD) is December 1, 2014. The Federal New Starts share is \$900 million for the Initial Operating Segment (extension to Wiehle Avenue). Through Federal fiscal year (FY) 2010, Congress has appropriated \$441.3 million for the Project. The FTA has awarded \$126,080,890 in funding through 2010 for the Project.

2. Project Status Summary

The PMOC met with MWAA on *June 8*, 2011 to conduct a monthly progress review meeting. The status information is as *of May 31*, 2011, unless otherwise noted.

- **Real estate acquisition** continues to keep ahead of construction requirements, often resorting to rights-of-entry (ROE) to gain access to required parcels.
- Rail car Procurement moved forward with the July 27, 2010 contract award by WMATA to Kawasaki and a Notice-To-Proceed (NTP) on August 16, 2010. The contractual requirements indicate that the 64th rail car will be conditionally accepted on January 15, 2015 as an early completion date, which does not comply with the FFGA date of December 1, 2014. MWAA continues to monitor the 7000 series railcar procurement contract closely and participates in monthly stakeholder meetings. The March 11, 2011 Japan earthquake has impacted Kawasaki's ability to meet the agreed schedule. At a June 9, 2011 meeting Kawasaki

reported that they anticipate providing their revised schedule to WMATA in late June that will reflect the Toshiba delays and mitigation efforts. Kawasaki has informed WMATA that the recovery schedule will be presented at the July 14, 2011 Progress Review Meeting. WMATA will review this schedule. This review and acceptance process is likely to extend to August 2011 in an effort to mitigate a possible six month delay cited by Kawasaki during the April Progress Review Meeting. Because the earthquake/tsunami prevented WMATA from traveling to Japan to work on the Preliminary Design Reviews (PDRs), the reviews are being conducted locally at WMATA headquarters. The current expectation is that the PDRs will not be completed until the end of July 2011, three months past the baseline schedule date of May 3, 2011. In order to improve the schedule of submittals, Toshiba has opened an office in Yonkers, New York to support the project.

• **Design progress** on the Extension to Wiehle Avenue project continues to lag behind the baseline schedule but currently does not affect construction progress. The associated pavilions and pedestrian bridge alignments are subject to coordination with adjacent developers who have requested design changes to accommodate their development plans. The PMOC anticipates that MWAA will execute agreements with the developers to reimburse the Project for these additional costs. Overall project design *remained at* 96% complete as of the end of *May 2011*. DTP *has now* achieved completion of *three* total station permit packages with the DGS approval of the Tysons East, *Tysons Central 123 and Tysons West Stations*' Architectural/Mechanical/Electrical/Plumbing (AMEP) permit packages. *IFC drawings for Tysons East, Tysons Central 123 and Tysons West Stations were issued in late May and early June 2011. The final AMEP permit approval for the Tysons Central 7 Station is anticipated to occur in late June 2011. The delay in project design does not appear to have adversely impacted the schedule's critical path at this time.*

MWAA has hired an independent third party consultant to review Alstom's safety analysis of the Generation 4 track circuit modules proposed for use on the Dulles Extension. MWAA issued NTP to Battelle on January 10, 2011 to begin the "Safety Analysis Review and Assessment." Battelle's current schedule indicates a submission of its final report in September 2011. However, Battelle reported in their June 7, 2011 Monthly Status Report that they would be submitting a new schedule addressing recent schedule impacts. The Battelle safety review is progressing with the completion of the review of non-proprietary data. Battelle will continue with commencement of WMATA interviews during the month of June along with their review of proprietary data at Alstom's facilities in Rochester, New York.

• Construction progress is broken into two components: utility relocation (UR), which is 99% complete, and design-build (DB) construction, which is approximately 40% complete. Significant accomplishments for May included continued segmental box girder installation on the Tyson East Guideway including balanced cantilever segmental erection with Launch Girder Truss LG3; significant pier construction progress on the Tysons West Guideway; major foundation work on all five stations; mezzanine steel erection at the Tysons East and Wiehle Avenue Stations; OB NATM tunnel waterproofing, invert pouring and concrete liner pouring; and IB NATM tunnel waterproofing and invert pouring. Brayman completed the last of the 726 drilled caissons on April 29, 2011. Launch Girder Truss LG2 has completed its work on the Tysons East Guideway and is currently being relocated to the Tysons West Guideway to begin segmental guideway erection in late July 2011.

The Route 7 road shift westbound at Route 123 for the final stage (Stage 2B) of the West Cut and Cover was implemented on April 3, 2011. The final shift of the Route 7 westbound between Tyco Road and the Toll Road was completed on May 27, 2011.

The O-1 Guideway is approximately 93% complete. The Tysons East Guideway is approximately 89% complete. The NATM Tunnel is approximately 74% complete with the waterproofing and final liner and invert work progressing. The Tysons West Guideway is approximately 42% complete.

The pre-cast yard has cast 2,263 of 2,772 concrete box girder segments and station girders to date.

The Tysons East Station is approximately 24% complete and the Tysons Central 123 Station is approximately 22% complete. The Tysons Central 7 Station is approximately 10% complete and the Tysons West Station is approximately 16% complete. The Wiehle Avenue Station is approximately 28% complete.

• The DTP Schedule with a data date of April 25, 2011 showed a -71 day loss as compared to the +8 calendar day gain reflected in the March 25, 2011 update due to re-sequencing of Powell's scope of work related to WMATA's requested change orders for TPSS and ETS Remote Monitoring. MWAA has not agreed with this update because DTP has not adjusted the follow-on work to reflect the re-sequencing by Powell. This is causing the delay to be erroneously extended. MWAA has notified DTP of their finding and is awaiting DTP's response. This unapproved variance moves the forecast SSCD to October 18, 2013. This results in a projected ROD of February 23, 2014. The FFGA ROD is December 1, 2014.

MWAA and DTP continued to meet regularly to review and discuss DTP's recovery schedule that included a preliminary acceleration cost of \$23.7 million. MWAA continued to negotiate with the goal of reaching a mutually agreed upon recovery plan. DTP submitted a zero loss recovery schedule on January 12, 2011. The schedule proposes a mitigation period of fourteen months, extending from January 2011 through February 2012. The Airports Authority has completed their independent estimate and continues to evaluate DTP's revised cost proposal for \$11.5 million submitted on March 2, 2011. Negotiations are progressing and a settlement is anticipated within the next sixty days.

The PMOC considers the issuance of directive letters and the agreement to a recovery schedule scope to be good first steps toward recovery of the Contract Completion Date. DTP's April 25, 2011 schedule update reflecting a -71 day loss reportedly caused by WMATA's request for TPSS Remote Monitoring continues is a reason for concern. This scope of work was not in WMATA's original design criteria. Discussions relative to the disagreement between MWAA and DTP on these reported losses are on-going.

The Project needs to increase its efforts to resolve differences relative to the West Falls Church Yard (WFCY) schedule. Both parties need to minimize the risk of irretrievable schedule creep leading to costly schedule compression, or at least minimize constructive acceleration costs. This need becomes increasingly critical as the WFCY completion date *has*

slipped another -12 days yielding a projected completion date of April 2, 2014 which is far behind schedule as reflected in DTP's April 25, 2011 schedule update. MWAA is proposing to become more engaged in the management of the WFCY work to have it completed by the ROD.

Budget status as of April 25, 2011 indicates that \$1,253,891,874 (40%) has been expended of the \$3,142,471,634 budget total. MWAA reports \$189,484,753 of the available contingency for the first five contingency milestones has been utilized with a remaining contingency balance of \$10,515,247 available through completion of the utility relocation work and the Aerial and Station Foundations. The contingency utilization reflects expended and obligated costs. The PMOC is concerned that remaining allowance items cost will utilize most of the remaining contingency. The federal portion of allowance items that have been awarded to date is \$305,294,501 which represents nearly sixty percent of the allowance items. The awarded allowance costs incurred versus the allowance budget indicates a \$44,748,673 overrun.

MWAA's estimate of the earned value for the Project through April 2011 is 52.33%.

• Risk -- The PMOC reviewed MWAA's updated risk assessment dated April 15, 2011. The FTA and PMOC met with MWAA on May 3, 2011 to discuss the PMOC's review comments. It was decided that the assessment needed adjustment to accurately reflect the changing realities of the Project, to include an analysis of what the potential Kawasaki 7000 series cars delay will have on the Project schedule and FFGA completion date. MWAA decided that it would do an internal revision to the Draft Risk Assessment and would communicate adjustments and progress on a bi-weekly basis with the PMOC. MWAA submitted a draft "Risk and Contingency Management Plan" on June 3, 2011, which is currently being reviewed by the FTA and PMOC.

3. PMOC's Assessment of Project Status

The Full Time Equivalents (FTE) estimated total for *May* is 1,729, which is *an increase* of 34 from the *April* actual of 1,695 and appears to provide suitable support to the scheduled activities. The pre-casting facility continues to produce pre-cast concrete girder segments and long line station segments in advance of their erection schedule.

Piers Re-Use Testing Reports and Program Status: The DTP Inspection and Test Program Final Report for the existing pile foundations and the CTI Report of the monitoring of the DTP inspection and test program have been completed. MWAA/QA conducted an audit of the associated pier design and the test findings to verify incorporation of the existing pier inspection and test program results into the final pier designs. The PMOC found the reports to be full and comprehensive, that the test program accomplished its mission and that the existing piers are suitable for re-use. MWAA President and Chief Executive Officer sent a wrap-up letter to the FTA Administrator on April 8, 2011, which stated that the MWAA had complied with the FTA's direction and had accepted the DTP Inspection and Test Program Final Report for Existing Pile Foundations. It also outlined follow-up testing that will be performed, and noted that it had directed DTP to follow-up with the anti-corrosion measures recommended by UTRS. Upon receipt of the schedule for the follow-up measures, the PMOC will issue a spot report with regard to the overall Inspection and Test Program. The excavation, bonding and successful

continuity testing of the pile bonding for pier 5B-OB was completed on June 8, 2011. MWAA is still trying to obtain a plan and schedule for the remaining UTRS-recommended remaining corrosion control activities. Subsequent to construction, all piers must be tested for stray currents and track to earth resistance to determine if any corrective measures are required.

Through April 2011, \$305,294,501 of the \$437,278,511 Federal Allowance Items Budget had been awarded to subcontractors and suppliers. A \$44,748,673 overrun now exists for the 22 of 35 sub-contract packages awarded thus far for federally-funded allowance items. MWAA has forecast a \$39+ million increase in costs due to Station finishes and mechanical, electrical and plumbing work in the next few months. MWAA is in the process of reviewing and analyzing the reasons for the increased costs. They submitted a partial analysis to FTA and the PMOC at the April 7 and May 3 meetings. Based on our review, the PMOC concludes that MWAA needs to review what items may be betterments and can be billed to the responsible parties. In addition, mitigation measures need to be implemented to keep the scope creep and increased costs under control. It is the PMOC's opinion that the WMATA-requested change orders for ETS and TPSS Remote Monitoring impacts to schedule and contingency cost need to be examined and considered carefully to determine whether or not they are betterments, and therefore should not be funded under the federal portion of the program.

MAIN REPORT

1. Grantee's Capabilities and Approach

a. Technical Capacity and Capability

The PMOC prepared a Spot Report of Grantee Technical Capacity and Capability dated January 10, 2008 as part of the PMOC's effort to evaluate the Grantee's readiness to enter Final Design. The conclusion was that the MWAA project staff assigned to the Project was qualified. However, the MWAA direct staff was very thin with many project responsibilities assigned to MWAA's consultant team, Project Management Support Services (PMSS) team. The PMOC recommended that the Grantee add several staff positions and that reporting protocols be enhanced to ensure important project status information is shared in a timely manner with the Federal Transit Administration (FTA) and the PMOC. MWAA has adopted the recommendations and augmented their staff.

In September 2009, MWAA reorganized by implementing an integrated project management organization consisting of MWAA and PMSS staff. However, the personnel involved remained the same as was evaluated in the January 2008 Technical Capacity and Capability Report. It is the PMOC's opinion that the staffing levels and technical capabilities are still adequate.

Upon completion of the project, WMATA will become the operator of this extension to their system. WMATA personnel have been active participants in the project.

b. Project Controls

MWAA has procedures in place with regard to monitoring and controlling project scope, quality, schedule, cost, risk and safety. It is the PMOC's observation that MWAA continues to monitor and control the project in accordance with their procedures.

Discussions between MWAA and DTP were concluded at the executive level with regard to a recovery schedule. This effort resulted in the issuance of two "Directive Letters" to DTP to conduct a constructive acceleration effective December 15, 2010 on a time and materials basis not to exceed \$7 million. DTP submitted a zero loss recovery schedule on January 12, 2011 that included a preliminary acceleration cost of \$23.7 million. The schedule proposes a mitigation period of fourteen months, extending from January 2011 through February 2012. A detailed review and additional discussions led to MWAA's conditional acceptance of the Recovery Schedule via letter dated February 7, 2011. Both parties have agreed to work toward a lump sum Change Order based upon the agreed Recovery Schedule scope. MWAA completed their independent estimate and *continues* evaluating DTP's revised cost proposal for \$11.5 million submitted on March 2, 2011.

DTP's updated project schedule with a data date of April 25, 2011 showed a -71 day loss as compared to the +8 calendar day gain reflected in the March 25, 2011 update. This loss adjusted the forecast SSCD to October 13, 2013. This results in a projected ROD of February

21, 2014. The FFGA ROD is December 1, 2014. MWAA is not in agreement with these reported losses and discussions with DTP continue.

It is the PMOC's observation that MWAA continues to carefully scrutinize the schedule update submissions and meets with DTP within two weeks of the schedule submission to discuss their observations and mitigation strategies to resolve the disagreements with regard to the actual critical path. This continues to be a contentious process because DTP is constantly striving to submit a schedule that will support a future delay claim.

MWAA continues to monitor expenditures to date and to update the estimate at completion. Through April 25, 2011, MWAA has utilized \$189,484,753 of the Phase 1 through 5 allotted contingency of \$200,000,000. The contingency utilization reflects expended and obligated costs. MWAA is in the process of updating the project Risk and Contingency Management Plan. MWAA prepared and forwarded a draft Risk Analysis Report to the FTA and PMOC on January MWAA discussed the draft Risk Analysis, a primary component of the RCMP, with the PMOC on March 2, 2011, and determined that further refinements were needed. The PMOC provided guidance to arrive at an acceptable reformatting. The PMOC reviewed MWAA's updated risk assessment dated April 15, 2011. The FTA and PMOC met with MWAA on May 3, 2011 to discuss the PMOC's review comments. It was decided that the assessment needed adjustment to accurately reflect the changing realities of the Project, to include an analysis of what the potential Kawasaki 7000 series cars delay will have on the Project schedule and FFGA completion date. MWAA decided that it would do an internal revision to the Draft Risk Assessment and would communicate adjustments and progress on a bi-weekly basis with the PMOC. MWAA submitted a draft "Risk Management Plan" on June 3, 2011, which is currently being reviewed by the FTA and PMOC. New Top Ten Risks as identified from the draft Risk Assessment were included in the handouts for this Monthly Update Meeting and will be reviewed by the FTA and PMOC.

The Quality Assurance (QA)/Safety group maintains an active schedule of audits and surveillances and accident data. Through *May 2011*, of the cumulative total of *6,210,603* hours worked, there *have* been *two* lost time accidents. MWAA received Revision 5 of the SCIL, on March 31, 2011. *MWAA's comments to Revision 5 were sent to DTP on May 18, 2011*.

DTP submitted revisions to the System Safety/Security Management Plan and DTP Procedures PPQ 01.06.02, Development and Maintenance of the Safety/Security Certifiable Items List and PPQ 01.06.03, Design Conformance Certification on August 16, 2010. The revised plan and procedures were resubmitted on November 23, 2010. MWAA accepted these documents on December 6, 2010. The FTA and PMOC met with MWAA, WMATA and DTP on April 29, 2011 to discuss development of a revised SSMP to integrate WMATA and MWAA systems testing, interface management and pre-revenue operations. A follow-up meeting will be scheduled for late September 2011.

c. Compliance

It is the PMOC's observation that MWAA continues to follow the required statutes, regulations and agreements.

MWAA submitted updates to the Amended Record of Decision Mitigation Report to the FTA for the *first quarter of 2011* on *April 29*, 2011.

2. Project Scope

a. Design Status

Work continues on the completion of station designs with permit approvals. WMATA review and approval of ATC submittals continues and has remained current since February. The problems with regard to stations permit approvals *have been* due to a combination of poor quality control of the documents, submittal of incomplete packages, and code interpretation by the designer that differs from that of the AHJ on several specific issues.

Overall, design for all five stations is complete. However, preparation of the "Issued for Permit" (IFP) and subsequent "Issued for Construction" (IFC) drawings has proven to be a protracted process. However, in late April and May 2011, DTP achieved completion of three total station permit packages with the DGS approval of the Tysons East, Tysons Central 123 and Tysons West Stations' Architectural/Mechanical/Electrical/Plumbing (AMEP) permit packages. In addition, associated IFC drawings for those three stations were issued in late May and early June 2011. The final AMEP permit approval, for the Tysons Central 7 Station, is anticipated to occur in late June 2011. The associated station pavilion and pedestrian bridge designs are delayed to as late as August 2011. Issuance of completed IFC design packages has not impacted the project's critical path, due in part to DGS continuing to assist with the permitting of partial packages. However, the remaining design packages continue to accumulate negative float on the Project schedule.

b. Bidding and Construction Status

Through *April* 2011, \$305,294,501 of the \$437,278,511 Federal Allowance Items Budget had been awarded to subcontractors and suppliers. A \$44,748,673 overrun now exists for the 22 of 35 sub-contract packages awarded thus far for federally-funded allowance items. The Airports Authority has forecast a \$39+ million increase in the costs due to Station finishes and mechanical, electrical and plumbing work in the next few months.

Utility relocation is 99% complete and DB construction is approximately 40% complete. All utility relocation efforts relating to the Route 7 road shifts in the Tysons West Station area have been completed to include the final resolution of the Verizon duct bank conflict with the drainage installation completed in April. *The final Route 7 westbound road shift to the Toll Road occurred on May 27, 2011.* Facchina completed all temporary Route 7 eastbound road shift to the Toll Road in February 2011. The Route 7 westbound shift at Route 123 for the final stage of the West Cut & Cover was implemented on April 3, 2011.

The following are the major accomplishments of the DB contractor during May 2011:

• Operations Areas OP-1, OP-2 and OP-3 (I-66/DCR/Laydown Area 1) – Continued with retaining walls at the K-Line tie-in area. Continued approach walls at abutment A-IB, B-IB and B-OB. Continued storm drain and installation between the O-1 Guideway abutments and Idylwood Road. Continued constructing retaining walls in the median of the DCR west of abutments A and B for the WFCY lead track. Continued placing sub ballast between the retaining walls on the DCR between Pimmit Run and Chain Bridge Road. Completed backfilling the first phase of the WFCY Cut and Cover tunnel and continued backfilling at the retaining walls for the upcoming DCR road shift. Continued jack and bore operations at TPSS #1 and TPSS#2 and continued duct bank installations at TPSS#1 and TBS #2.

Operations Area OP-4/5A (Tysons East Guideway/Station/I-495 Crossing) – Continued segmental box girder guideway erection with Truss LG1 completing spans 26-OB, 27-OB, 27-IB and 28-IB for a total of fifty-four spans completed to date. Continued segmental box girder erection with Truss LG2 completing spans 63-IB, 63-OB, 64-OB and 64-IB for a total of eighteen completed to date. Continued balanced cantilever segmental girder erection with Truss LG3 on span 50-IB with a total of four completed to date.

- Operations Area OP-5 (Tysons Central 123 Station) Utilizing a ground based crane to erect segments and AASHTO Girders completing segments at spans 70-IB, 70-OB, 71-IB, 71-OB, 72-OB,72-IB, 73-IB, 73-OB, 74-OB, 74-IB, 75-IB and 75-OB for a total of twenty-two completed to date. Continued form and rebar installation and pouring structural foundation walls and interior columns at Tysons Central 123 Station.
- Operations Area OP-6 (Laydown Area #6/NATM Tunnel/East Cut & Cover and Ventilation Structure) Continued pouring of base slab and forming walls for the East Ventilation Structure. Continued waterproofing for the IB tunnel invert. Completed waterproofing for the arch section of the OB tunnel. Poured fifty-one arch sections of the OB tunnel liner to date.
- Operations Area OP-6 (West Cut and Cover Tunnel) Continued SOE installation and excavation at stage 2A and continued base slab and wall construction at the West Ventilation Structure.
- Operations Area OP-7 (Tysons Central 7 Station) Continued foundation slab construction. Continued pouring foundation walls for TPSS #5. Continued forming and pouring platform walls.
- Operations Area OP-8 (Tysons West Station/Guideway) Completed the final road shift on the WB side of Route 7 from Tyco Road to the Toll Road on May 27, 2011. Water main installation along WB Route 7 continues between Spring Hill Road and Tyco Road. Completed pile caps at IB/OB piers 4, 20, 33, 34, 35 and 36 for a total of thirty-nine completed to date. Completed columns at IB/OB piers 4, 22 and 44 for a total of forty-seven completed to date. Completed pier caps at IB/OB piers 6, 11, 12, 13, 14, 15,16, 53, 54 and 28-OB, 28-IB, 29-OB and 29-IB for a total of twenty-six completed to date. Installed mezzanine beams at piers 25, 26 and 27 at the Tysons West Station for a total of

seven completed to date. Set forms and started construction of bent 50 over the DIAAH. Completed the installation of piles for approach walls at abutment B in the median of the DIAAH.

- Operations Area OP-9 (DIAAH) Completed the Difficult Run Bridge abutment B and continued with back wall construction. Continued with retaining walls on the OB and IB sides between Hunter Mill Road and east of Beulah Road. Storm drain installation east of Beulah Road continues in the median. Excavation at Pond 5 was completed. Paving the entrances to Ponds #1, #3, #4 and #10 was completed. Continued jack and bore operations to TPSS #7, #8, #9, #10 and #11. Ground grid installation was completed at TPSS #9.
- Operations Area OP-10 (Wiehle Avenue Station/Laydown Area 13) Completed pouring barrier walls between the trackway and the DIAAH. Continued installation of power conduits in the platform utility chase and through penetrations into the service rooms.
- Laydown Area 10 (Pre-cast Yard) Continued casting of segmental box girders; completed 2,263 of 2,772 concrete box girder segments and station girders to date.

c. Third Party Coordination & Agreement Status

All Intergovernmental Agreements and Agreements with utility companies were executed prior to the FFGA.

d. Real Estate

Real Estate Acquisition continues to keep ahead of construction requirements, often resorting to ROE to gain access to required parcels. Through *May* 2011, 73 of the 102 parcels required for the Project have been acquired. The table below summarizes acquisition activities for the Project through *May* 2011.

$\textbf{PARCELS} \ \textbf{ACQUIRED}^1$

(Number of parcel packages)

			Period	To Date				
LOCATIONS	TOTAL	Planned ²	Actual	Var	Planned ²	Actual	Var	
Route 66 / Dulles Connector	1	0	0	0	1	1	0	
Route 123	23	0	0	0	21	19	(2)	
Route 7	51	1	0	(1)	48	42	(6)	
DIAAH	27	1	0	(1)	14	11	(3)	
TOTAL	102	2	0	(2)	82	73	(11)	

Notes: 1. Parcels secured through recordation of deed/easement and filing of Certificates of Take. These values include rights obtained for another 31 parcels for which Certificates of Take have been filed.

2. Planned values are based on the March 31, 2011 Property Acquisition Status Update.

Condemnation Status

Thirty-one parcel packages have been obtained with the filing of twenty-seven Certificates of Take. In May 2011, no new cases were assigned, three newer cases moved into the initial discussion stages with the landowners, and three other cases are close to having the Final Order entered for Agreements After Certificate or settlement orders (Parcel 035, Embassy Suites and Parcel 30, Best Buy/Whisper Capital, LLC). The Virginia Supreme Court did not make a decision in April on rehearing the case that went to trial in June 2010 (Parcel 25, Embassy Suites, Parcel 19, Koons Ford/Sherwood Tysons, LLC, and Parcel 36, Container Store/CG Tysons Corner, LLC). The Virginia Supreme Court made a decision in early May to rehear the appeal of a case that went to trial in June 2010 (Parcel 23, Pike 7) for which an appeal was previously denied in January 2011. The rehearing of the appeal is anticipated in late 2011. The one trial that was scheduled for May (Parcel 36, Container Store/CG Tysons Corner, LLC) was settled before trial at the Certificate amount. The one case currently scheduled for trial as of May 31, 2011 isParcel 56, HBL Mercedes/George C. Andreas, Tr, et al – December 13, 2011

e. Utility Coordination

The various utility companies continue to relocate their facilities for the project. Utility coordination meetings are held with the various utilities to schedule and coordinate work. Specific utility relocation work completed *and continuing through May 2011* includes the following:

- **Dulles Connector Road (DCR) East (K-Line to Route 123)** Continue installation of ductbanks and manholes to bridge crossings at Magarity Road and Pimmit Run.
- Along Route 123 (DCR to Route 7) AboveNet continues relocation work at Route 123 and Scotts Crossing.
- Along Route 7 (Gosnell/Westpark to Spring Hill Road) All work completed.
- Along Route 7 (Spring Hill Road to Tyco/Westwood) AboveNet continues to prepare for splicing and cutover work on the north side of Route 7.
- Along Route 7 (Tyco/Westwood to Route 267/Toll Road) AboveNet continues to schedule splicing with customers on the north side of Route 7 at Koon's Toyota.
- **DIAAH West -- (Route 7 to Route 267 -)** DTP/Lane continues the installation of the traction power ductbank and manholes for bridge crossings. Washington Gas continues relocation work at the TPSS #10 site.

f. Vehicle Procurement

WMATA is procuring the 64 rail cars required for the project. WMATA is also procuring 300 replacement rail cars under the same contract. The WMATA Board approved the award

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of a contract and a sharing of development costs with MWAA at its May 27, 2010 meeting. The MWAA Board agreed at its June 2, 2010 meeting to share the development costs associated with the railcar procurement equally with WMATA.

Rail car procurement moved forward with the July 27, 2010 contract award by WMATA to Kawasaki. The manufacturer's proposed schedule showed the 64th car would be delivered by September 12, 2014 based on a July 12, 2010 notice to proceed (NTP). WMATA issued Notice-To-Proceed (NTP) on August 16, 2010. The contractual requirements indicate that the 64th rail car will be conditionally accepted on January 15, 2015 as an early completion date, which does not comply with the FFGA date of December 1, 2014. The contractual milestones for this procurement are:

Activity	Planned Date	Actual Date
Notice to Proceed	July 12, 2010	August 16, 2010
Preliminary Design Review	March 31, 2011	
Submission		
Final Design Review	October 31, 2011	
Submission		
Delivery of first 4 pilot cars	September 16, 2013	
Conditional acceptance of 4	March 16, 2014	
pilot cars		
Conditional acceptance of 64 th	January 15, 2015	
car		

WMATA, MWAA, and the PMOC held a kick-off progress status meeting on October 28, 2010 to begin monitoring this procurement. The PMOC also attended the Monthly Progress Review meetings held between WMATA and Kawasaki on February 10, 2011, March 3, 2011, April 14, 2011 *and June 9, 2011*.

Participation at these progress status meetings is a concerted effort by the PMOC to monitor either that the new railcar procurement schedule is improved or that arrangements are made in advance to support the Project's Operational Readiness Date with existing fleet cars. On December 3, 2010, WMATA confirmed in a letter to MWAA "sufficient resources, including railcars, will be available to support dynamic testing and initial revenue service in accordance with the Project's current schedule". WMATA went on to say that cars from the existing fleet will be made available for dynamic testing on the Dulles Extension. If there is a gap in the delivery of the 7000 Series Rail Car delivery and the revenue service date, WMATA outlined its strategies for being able to support initial revenue service using the existing WMATA fleet The PMOC will continue to monitor both the progress of the procurement and WMATA's support of the project.

The Conceptual Design Review phase was completed on January 31, 2011 and the program is in the Preliminary Design Review phase. This is slightly behind WMATA's original schedule, however WMATA has noted that the submittals are more detailed than expected, being closer to what is expected for Preliminary Design Review (PDR). As a result, some level of PDR work has already taken place and the design development is proceeding at the

expected rate. At the March 3, 2011 WMATA/Kawasaki Progress Meeting it was reported that Kawasaki anticipated completing PDR submittals on May 3, 2011 which was two days behind the accepted schedule completion date for PDRs. *The current expectation is that the PDRs will not be completed until the end of July*. It appears to MWAA, FTA and the PMOC that WMATA and Kawasaki need to give more attention to the Dulles Metro Rail Project schedule needs. In addition, Kawasaki is still investigating possible supplier impacts to the schedule resulting from the March 11, 2011 earthquake/tsunami in northern Japan.

On March 16, 2011, Kawasaki formally notified WMATA of potential delays that they believe would be considered excusable under the terms of the contract due to the earthquake/tsunami of March 11, 2011. The major impact appears to be relative to Toshiba, which is located in a zone that is only receiving power for half a day. This loss of production is exacerbated by the fact that Toshiba must recalibrate their equipment after each outage, which further reduces productive time. To shiba reports that two of their suppliers for semiconductors and capacitors have been affected and is seeking other sources for these materials. Toshiba is attempting to relocate key personnel to Houston, Texas. The software delays may have a trickledown effect on other manufacturers that are reliant on the Toshiba software. Kawasaki and Toshiba were to present a recovery schedule to WMATA during the week of April 18, 2011.. That meeting did not take place until the night of April 27, 2011. A mitigation schedule was not presented at that meeting, but rather another meeting was scheduled to occur in the following thirty to forty-five days when the full impact of the disaster can be quantified. This meeting was scheduled for June 9, 2011, but Kawasaki again failed to provide a revised schedule. Instead, Kawasaki reported that they anticipate providing their revised schedule to WMATA in late June that will reflect the Toshiba delays and mitigation efforts. Kawasaki reported that they had received Toshiba's recovery schedule, but they had not completed their analysis nor incorporated it into the overall project recovery schedule. Kawasaki now reports that the revised schedule will not be available until the July 14, 2011 Progress Review Meeting. WMATA will review this schedule and either accept it, accept with comments or reject it. This review process is likely to extend to August 2011. Because the earthquake/tsunami prevented WMATA from traveling to Japan to work on the PDRs, the current expectation is that they will not be completed until the end of July 2011. Previously it had been expected that the PDR process would be completed on May 3, 2011. Kawasaki reported that as of May 16, 2011, Toshiba has relocated two project managers to Kawasaki's Yonkers, New York facility to help reduce the backlog of submittals. Since travel to Japan has not been possible, the PDRs are being done at WMATA's headquarters.

g. Safety and Quality Status

The Airports Authority participated in *four* safety walk downs with DTP during the month of *May*. All were related to Design-Build work. As of *May 31*, 2011, DTP had logged 6.210 million project man-hours with 230 first aid cases and *two* lost time *cases*. There have been a total of 378 incident investigation reports, 80 utility hits and 15 vehicular accidents.

Revision 4 to the SCIL was submitted on November 24, 2010. Comments on Revision 4 were transmitted to DTP on January 7, 2011. The DTP response to the comments along with

Revision 5 of the SCIL was received by MWAA on March 31, 2011 and MWAA responded with comments to DTP on May 18, 2011.

DTP and the Airports Authority continue to meet every two weeks to review the status of issued for construction designs (including subcontractor designs) and to determine the status of sign-offs of the Design Conformance Checklist (DCC) and Construction/Procurement/Installation Conformance Checklist (CCC) items related to all issued for construction designs.

A DCC was submitted for MWAA's review on September 2, 2010 with seventy items signed off. Its review was completed with forty-nine items accepted. The acceptance of another eleven items was deferred pending issuance of "Issued for Construction" associated design drawings and ten items were not accepted. DTP submitted a DCC for MWAA's review on December 2, 2010 with forty-eight items signed off. Its review was completed with thirty-eight items accepted. DTP submitted another DCC on March 2, 2011. Of the eight items submitted that had been signed off on this update, six were accepted, one accepted as noted and one item was not accepted. DTP submitted another DCC on June 2, 2011 with 540 signed off items which are currently under review by MWAA and WMATA. "Issued for Construction Drawings" (IFC) for all stations with the exception of Tysons Central 7 have now been issued. Since signed off items must be based upon IFC drawings, the number of signed off items on future submissions will be much larger as the DCC nears closeout in the months to come.

A Construction/Procurement/Installation Conformance Checklist (CCC) was received on October 4, 2010 with six items signed off. MWAA transmitted final comments on this checklist to DTP on January 3, 2011. MWAA and DTP resolved disagreements related to the acceptability of the six items on February 25, 2011. The next submittal of signed-off items is currently scheduled for July 1, 2011. WMATA is also currently conducting a 100% review of the submitted DCC and CCC items.

Regular weekly visits to work sites by safety representatives from DTP, the Airports Authority and WMATA continue. The Tri-State Oversight (TOC) and the FTA's on-site PMOC representative continue to meet monthly with the Safety/Security Certification Working Group (SCWG) and continue ongoing involvement in the certification process. A SCWG meeting was held on *May 17*, 2011.

Revision 5 of the DTP System Safety/Security Certification Management Plan was transmitted to the FTA on December 8, 2010. The Airports Authority Safety and Security Management Plan, Revision 8 was submitted to the FTA on February 17, 2011. An FTA/PMOC Safety/Security Program Review Meeting was conducted with all stakeholders on April 29, 2011. FTA explained the requirement for a complete SSMP for the Dulles Corridor project -- not just for the MWAA portion. MWAA and WMATA agreed to develop a revised SSMP that will cover the roles and responsibilities of both MWAA and WMATA for this project -- including the vehicles, the approach for integrated testing and interface management, joint safety and security certification activities and hand-offs, and pre-revenue operations. WMATA will also determine how it will manage its role in the safety and security certification process and identify and develop the required plans or procedures.

MWAA and WMATA plan *to hold* bi-weekly meetings to address these issues. Another meeting will be held with FTA at the end of September 2011 to present the approach they developed and also to clarify what documentation FTA will need. *The April 29th meeting* was productive, and in the PMOC's opinion, both MWAA and WMATA appreciate the importance of resolving these issues and are on the right track to having a meaningful proposed approach ready for presentation by the end of September 2011.

During May 2011, MWAA performed the following QA audits/surveillances:

- DTP System Safety/Security Program: An audit was conducted on May 4, 2011. There were three issues. A response is due in mid June 2011.
- Turner Construction (Shell Enclosure Trades): An audit was conducted on May 11-12, 2011. There were no issues. An audit report is under preparation.
- DTP QA, Document Control and Training: An audit was conducted on May 17-19, 2011. There were no issues. A report was prepared and the audit was closed on May 31, 2011.

The MWAA QA Audit and Surveillance Schedule through December 2011 (Preliminary)

Tentative Date	Audit (A) Surveillance (S)	Joint Audit/Surv.	Lead	
6/1-2/11	A	DTP Engineering	N	MWAA
6/3/11	S	DTP Wiehle Avenue Station Survey Records	N	MWAA
6/8-9/11	A	Delta Railroad (Rail)	Y	DTP
6/15-16/11	A	DTP Subcontractor Construction Safety Program	N	MWAA
7/6/11	S	DTP Subcontractor/Supplier Submittal Process: DTP/Subcontractor Nonconformance Control Systems	N	MWAA
7/13-14/11	A	DTP Construction and QC	N	MWAA
7/20-21/11	A	Flippo Construction (Wayside Facilities)	Y	DTP
7/27/11	S	Long Fence (ROW fencing)	Y	DTP
8/3-4/11	A	MWAA QA Program	N	STV
8/17-18/11	A	DTP Contractor and Subcontractor Construction Safety Programs	N	MWAA
8/24-25/11	A	M.C. Dean (MEP Above Grade)	Y	DTP
9/6/11	S	Truland Walker Seal (Communications)	Y	DTP
9/14-15/11	A	DTP Environmental	N	MWAA
9/21-22/11	A	Lane Construction (Early MEP)	Y	DTP

Tentative Date	Audit (A) Surveillance (S)	Organization/Activity	Joint Audit/Surv.	Lead
9/28/11	S	DTP Subcontractor/Supplier Submittal Process:	N	MWAA
		DTP/Subcontractor Nonconformance Control Systems		
10/5-6/11	A	Turner Construction (Shell Enclosure Trades)	Y	DTP
10/12- 13/11	A	DTP Engineering	N	MWAA
10/26- 27/11	A	CTI Consultants (Special Inspection Program)	N	MWAA
11/9-10/11	A	Kone (Elevators and Escalators)	Y	DTP
11/16- 17/11	A	DTP QA, Document Control, Training	N	MWAA
12/5-6/11	A	Delta Railroad (Trackwork)	Y	DTP
12/12/11	S	DTP Subcontractor/Supplier Submittal Process: DTP/Subcontractor Nonconformance Control Systems	N	MWAA

3. Project Management Plan and Sub-plans

MWAA submitted its draft PMP update of Version 7.0 on September 3, 2010. This plan was reviewed by the PMOC and six recommendations were made for inclusion in the PMP. FTA forwarded the PMOC's comments to MWAA for them to address in Version 7.0 Final. Dialogue continued between MWAA and the PMOC with regard to MWAA's proposed revisions relative to the six recommendations and the revised PMP was submitted to the FTA on January 25, 2011. On February 11, 2011, the PMOC recommended that the FTA approve PMP Version 7.0 Final dated January 2011. The FTA accepted the PMP Version 7.0 Final on February 14, 2011.

- The FTA accepted MWAA's Quality Program Plan (QPP), Revision 6, dated June 25, 2008 on September 19, 2008. MWAA submitted a revised QPP, Revision 7 to FTA on January 7, 2010. MWAA awaits FTA's comments on the revised plan or an indication that no comments will be forthcoming. MWAA reported that three Project Management Procedures were updated in the period from March through May 2010.
- MWAA's Real Estate Acquisition Management Plan (RAMP), Revision 2, dated September 15, 2009, has been reviewed by the PMOC with a recommendation that the FTA concur, with comments, with the revised RAMP. On January 21, 2010, the FTA provided comments to MWAA, and MWAA staff has revised Procedure PM-3.01 (Monitoring the Design-Build Contractor Property Acquisition Services) and has requested DTP to revise their Procedure PIQ-5.1.
- MWAA's Risk Management Plan (RMP) dated October 2008 was reviewed and accepted by the FTA. The PMOC requested MWAA to begin the process to update the RMP by

the end of the summer 2010 with a meeting to discuss the update to be scheduled after MWAA completes their risk plan update. A consultant submitted a draft of the Risk Analysis, a primary component of the RMP, to MWAA in December 2010. MWAA and the PMOC discussed the draft on January 26, 2011 and determined that some refinements were needed. MWAA submitted a hard copy draft Risk Assessment (Analysis) Report on January 31, 2011 and an electronic copy for review on February 24, 2011. The FTA and PMOC requested that the Report be revised. The PMOC provided guidance to arrive at an acceptable reformatting. The PMOC reviewed MWAA's updated risk assessment dated April 15, 2011. The FTA and PMOC met with MWAA on May 3, 2011 to discuss the PMOC's review comments. It was decided that the assessment needed adjustment to accurately reflect the changing realities of the Project, to include an analysis of what the potential Kawasaki 7000 series cars delay will have on the Project schedule and FFGA completion date. MWAA decided that it would do an internal revision to the Draft Risk Assessment and would communicate adjustments and progress on a bi-weekly basis with the PMOC. MWAA submitted a draft "Risk and Contingency Management Plan" on June 3, 2011 which is currently being reviewed by the FTA and PMOC. New Top Ten Risks as identified from the draft Risk Assessment were included in the handouts for the June Monthly Update Meeting and will be reviewed by the FTA and PMOC. Upon incorporation of PMOC review comments, if any, MWAA will complete the RCMP. MWAA continues to monitor the risk status and reports this information on a monthly basis.

- Since WMATA, rather than MWAA, will be the operator of the completed project, the WMATA Rail Fleet Management Plan (RFMP) is the applicable document. The FTA accepted the WMATA RFMP on September 25, 2007. However, WMATA updated the RFMP to reflect the 7000 Series Rail Car procurement and submitted a draft copy dated February 26, 2010 to the FTA for review and comment. The PMOC issued its Spot Report on its review of the draft RFMP on March 11, 2010, finding the plan to be deficient in many areas. The FTA provided comments to WMATA on March 15, 2010 based on the PMOC's Spot Report. The PMOC met with WMATA on April 6, 2010 to review the comments on the draft RFMP. The PMOC again met with WMATA on June 2, 2010, at WMATA's request, to further discuss the comments. WMATA submitted the revised draft RFMP on September 17, 2010 and a draft Spot Report summarizing the PMOC's review findings was issued to the FTA on November 8, 2010. The PMOC held a meeting with WMATA on November 15, 2010 to review the findings. A follow-up meeting will need to be scheduled in the near future after WMATA submits the revised RFMP. The PMOC reviewed the RFMP dated January 31, 2011 and recommended that the FTA not accept the document. On March 1, 2011, the FTA Regional Administrator requested that WMATA revise and resubmit the RFMP. WMATA has hired a consultant to prepare the revised RFMP. A submittal date has not been determined.
- MWAA's Safety and Security Management Plan, Revision No. 6 dated January 2009 was accepted by the FTA on January 27, 2009. MWAA submitted the SSMP, Revision 7, to the FTA on September 23, 2009. The changes in Revision 7 were minor in nature and reflected changes in personnel assignments, integration of the Fire/Life Safety Working Group with the Safety/Security Certification Working Group, and updates to schedules. Due to the minor nature of the changes, no response is expected from the FTA. SSMP,

Revision 8 was provided to the PMOC on February 28, 2011 and is under review. A meeting was conducted on April 29, 2011 between the PMOC, MWAA, WMATA, DTP and TOC to review the SSMP, Safety Certification Program and other issues. MWAA and WMATA agreed to develop a revised SSMP that will cover the roles and responsibilities of both MWAA and WMATA for this project -- including the vehicles, the approach for integrated testing and interface management, joint safety and security certification activities and hand-offs, and pre-revenue operations. WMATA will also determine how it will manage its role in the safety and security certification and identify and develop whatever plans or procedures are required. MWAA and WMATA plan on bi-weekly meetings to address these issues. Another meeting will be held with FTA at the end of September 2011 to present the approach they developed and also to clarify what documentation FTA will need.

• FTA requested an update to the Appendices in the Permitting Plan on June 17, 2010. MWAA provided that information on December 21, 2010.

4. Project Schedule

The most recent MWAA analyzed project schedule update has a data date of April 25, 2011. The primary critical path identified by DTP showed a -71 day loss as compared to the +8 calendar day gain reflected in the March 25, 2011 update due to re-sequencing of Powell's scope of work related to WMATA's requested change orders for TPSS and ETS Remote Monitoring. The Airports Authority has not agreed with this update because DTP has not adjusted the follow-on work to reflect the re-sequencing by Powell. This is causing the delay to be erroneously extended. The Airports Authority has notified DTP of their finding and is awaiting DTP's response. This unapproved variance moves the forecast SSCD to October 18, 2013. This results in a projected ROD of February 23, 2014. The FFGA ROD is December 1, 2014. MWAA has been requesting corrections and re-submittals of DTP's schedule updates when MWAA disagrees with the critical path. However, DTP does not honor those requests. DTP's schedule with a data date of May 25, 2011 reflecting a -57 variance to the plan has not yet been analyzed by MWAA.

On February 12, 2011, Launching Gantry No. 2 (LG2) suffered structural damage during the launching operation to the next pier. To help mitigate delays, the Contractor sent the LG2 crew to the LG1 operations to operate a second shift. In addition, the contractor mobilized a crane and assembled segments on the ground for ground crane lifting for some of the shorter spans. *The gantry crane was repaired and back in service* on April 4, 2011 after seven weeks down time. Overall schedule impacts are not yet known.

With regard to the new 7000 series railcar delivery, Kawasaki's schedule with WMATA does not call for "conditional acceptance" of the 64th DCMP rail car until January 15, 2015. On December 3, 2010, WMATA sent a letter to MWAA confirming WMATA will provide sufficient cars to support dynamic testing and initial revenue service for the Dulles Project. WMATA will use cars from the existing fleet for dynamic testing. If there is a gap between the delivery of the 7000 Series cars and revenue service date, WMATA will make sufficient cars available from within the existing WMATA fleet to support initial revenue service. However, this contingency plan does not meet the FFGA scope of work requirement that the 64th car be

accepted by December 1, 2014. In a letter to WMATA dated February 2, 2011 MWAA requested "that WMATA expedite their efforts to complete Conditional Acceptance of the 64 railcars for the Project and return to the original Conditional Acceptance date of the third quarter of 2014." However, the January 15, 2015 conditional acceptance date was confirmed at the March 3, 2011 "7K Progress Meeting." WMATA reported that WMATA Letter No. 130, dated March 28, 2011 addressed the issues outlined in the February MWAA Letter. The Airports Authority CEO is addressing the matter directly with WMATA's General Manager.

On March 15, 2011, Kawasaki formally notified WMATA of potential delays that they believe would be considered excusable under the terms of the contract due to the earthquake/tsunami of March 11, 2011. Kawasaki and Toshiba reported to WMATA during the week of April 18, 2011 that a three to six month delay was expected. Kawasaki and Toshiba were to present a recovery schedule to WMATA during the week of April 18, 2011 in an effort to mitigate a reported potential three to six month delay. That meeting did not take place until the night of April 27, 2011. A mitigation schedule was not presented at that meeting, but rather another meeting was scheduled to occur in the following thirty to forty-five days when the full impact of the disaster can be quantified. This meeting was conducted on June 9, 2011. Kawasaki's plans to present mitigation measures at the June 9, 2011 meeting were not realized. Instead, Kawasaki reported that they have received Toshiba's mitigation schedule but have not completed their review of it. Kawasaki anticipated providing their revised schedule to WMATA in late June that would reflect the Toshiba delays and mitigation efforts. Kawasaki now reports that the revised schedule will not be available until the July 14, 2011 Progress Review Meeting. WMATA will review this schedule and either accept it, accept with comments or reject it. This process is likely to extend to August 2011 in an effort to mitigate a possible six month delay mentioned in Kawasaki's letter of March 15, 2011. Because the earthquake/tsunami prevented WMATA from traveling to Japan to work on the PDRs, the current expectation is that they will not be completed until the end of July 2011. Previously it had been expected that the PDR process would be completed on May 3, 2011. Kawasaki reported that as of May 16, 2011, Toshiba has relocated two project managers to Kawasaki's Yonkers, New York facility to help reduce the backlog of submittals.

The WFC Yard upgrade work schedule continues to drop further behind, with a completion of the full facility now shown to be April 2, 2014 according to the April 25 schedule update. The WFC Yard schedule needs to be incorporated into the overall project schedule. DTP stated in its May 2010 schedule narrative that this date "incorporates a number of assumptions with regards to permitting and access to perform the work. DTP continues to finalize the WFCY schedule, which will be provided in a revised RFC-065 proposal." The WFCY work is still disconnected from the schedule's critical path. DTP's reason was stated in response to MWAA's review comment on the February schedule as follows: "DTP has previously advised MWAA that the WFCY schedule will be excluded from the Project SSCD due to the delay imposed on the WFCY work. Until design progression allows for a firm schedule for this work and resolution of the commercial issues surrounding the WFCY, DTP's position remains unchanged. Therefore, the MWAA/PMSS suggestion that the WFCY is the primary critical path is not valid." MWAA continues to state its disagreement with DTP's completion date in light of the incomplete WFCY scope. DTP anticipates that a new and separate contractual completion date for the WFCY will be established independent of the Project SSCD." It is the PMOC's opinion that the 'independent contractual completion date' must still support the Project Operational Readiness Date". MWAA reported that during the December monthly meeting it had issued a "Directive Letter" to DTP to continue the design and phase planning effort. During the *May* monthly meeting, MWAA reported that the schedule and costs presented by DTP are still being reviewed and that they are confident that the schedule can be adjusted to support the Project's Operational Readiness Date. MWAA reported that they have proposed managing the work and the interface activities with WMATA. DTP was in favor of the proposal and the details are being worked out.

DTP has made numerous presentations of its West Falls Church Yard Tie-In Execution Plan to MWAA and WMATA. The last presentation was on November 16, 2010. A very detailed and informative presentation helped to involve more key WMATA personnel who will be needed to support the tie-in and integration process. The plan outlined the necessary track outage schedule for 2011 and detailed the activities for the special trackwork installation (#10 double crossover and the two #15 turnouts) along with the automatic train control installation. DTP provided a good overview of its plan and a tentative track outage schedule was officially submitted to MWAA in October 2010. DTP awarded a subcontract to Lane Construction Company in December 2010 for early Civil Sitework and work began in mid-January 2011. Clearing and grubbing operations were shut down on February 14, 2011 for site safety issues that *have been addressed*. That work resumed on March 1, 2011 and the work is nearing completion. In addition, MWAA has issued a change order to Lane Construction for the WFCY early utility work. The scope has been agreed and the price is being negotiated.

The WFCY Civil/Sitework final design was completed and issued for permit in October 2010. The S&I Building Issued for Permit (IFP) drawings were submitted for permitting to DGS on May 2, 2011. DGS responded with comments on June 2 which are currently being resolved by DTP with a planned permit re-submittal on June 20, 2011. The Sound Cover Box IFP drawing submission to DGS for permitting occurred on May 18, 2011 and is currently under review by DGS. A Request for Proposal (RFP) for both the Annex and Sound Box was issued to prospective bidders on May 10, 2011 and addendums will be issued for DGS generated changes on June 20, 2011. A bid opening date will be determined once the final addendums have been issued. DTP has obtained the federal permit for the necessary stream restoration. MWAA, WMATA and DTP continue to discuss DTPS's Tie-in Plan and proposed track outage plan.

It remains the PMOC's opinion that MWAA is maintaining control over the Project master schedule, with the exception of the WFCY schedule that continues to be of concern relative to meeting the scheduled Project Operational Readiness Date (ORD). However, MWAA reports that they are nearing a cost settlement with DTP that yields a WFCY completion date that supports the Project ORD. The critical path, weather delays and schedule logic issues through December 25, 2010 have been resolved with the approval of a zero loss recovery schedule with a data date of December 25, 2010. However, eight days have already been lost to excusable weather delays during January through March 2011 and DTP has claimed an additional four days of excusable weather delays in April and MWAA has agreed with one.

The Project has been troubled by various design review and permitting issues and delays over the past year and longer. However, most of those issues have been overcome and the design review and permitting process is nearing a conclusion with a few exceptions. All parties provided additional time and effort to make the needed progress.

Other problem areas with potential delays identified by MWAA include the following:

- Potential conflict with Launching Girder #3 erecting segmental box girders over I-495 and the on-going Hot Lanes work in the area.
- Re-casting of damaged or otherwise unacceptable segments.
- Time *lost* correcting misaligned dowels at Tysons West Station Piers 25, 26 and 27 and regaining the pier construction schedule.
- WFCY design, construction and commissioning.
- Inability of DTP to achieve design finalizations.
- Implementing the Remote Monitoring and Control (RMC) modifications pursuant to Directive Letter 27.
- Other potential systemwide upgrade programs by WMATA could have numerous technical scope changes impacting Traction Power, Automatic Train Control and Communications.
- The quality of the first 360 LF of the OB NATM Tunnel Arch concrete is not in compliance with Contract Specifications.
- Remaining or new property acquisitions resulting from design finalization or changes in support of Station Pavilions, DVP duct banks and detention ponds.
- As construction progresses discovering additional Utility conflicts requiring relocation.
- Discovery of hazardous materials requiring removal.
- Obtaining required weekend outages from WMATA for K-Line Tie-in work.

a. Critical Path Evaluation

The PMOC agrees with MWAA's assessment regarding the critical path. The Project will need to continue its efforts to resolve disagreements relative to the WFCY, critical path, logic and delay issues in order to minimize the risk of irretrievable schedule creep leading to costly schedule compression or constructive acceleration. Although MWAA and DTP have agreed to a zero loss time recovery schedule with a data date of December 25, 2010, new disagreements continue to mount for claimed weather delays and change order impacts to the schedule.

The schedule update with a data date of April 25, 2011 was again not agreed to by MWAA. DTP has included a rough order of magnitude schedule for the Remote Monitoring and Control (RMC) change requested by WMATA and directed by MWAA through Directive Letter 27. However, DTP has not adjusted the follow-up work to reflect the re-sequencing by Powell. This is causing the delay to be erroneously extended. The Airports Authority has notified DTP of their findings and is awaiting DTP's response.

Through the April 2011 Schedule Update, DTP submitted notices of delay for 24 weather days. Six of these were contractually anticipated and accounted for in DTP's work plan and DTP later retracted their position for three days. MWAA assessed seven of the remaining 15 days as excusable and debited it to the 4 day Force Majeure reserve included within the terms of the A&R D-B contract adjusting the SSCD to August 8, 2013. The remaining eight days continue to be disputed.

In the May 2011 Schedule Update Meeting, the Airports Authority presented a schedule performance analysis demonstrating that DTP is falling behind both in terms of extensions of

planned durations and significant shortfall in achieving planned start and finish dates. This results in DTP falling behind the recovery schedule which is not evident due to the reported delay caused by the systems change order. The Airports Authority is working with DTP to address this performance.

MWAA's analysis of the April 2011 Schedule Update considers DTP's Critical Path No. 4, originating with Launch Girder (LG1) operations in the Tysons East Guideway, as the Project's Critical Path No. 1.

In addition, MWAA continues to disagree with DTP's scheduling of the WFC Yard. As submitted, DTP's schedule now reflects a completion date of *April 2*, 2014, a variance of -78 calendar days from DTP's proposed plans and still does not accurately reflect the scope of Final Design Submittal for the Service and Inspection (S&I) Annex Building. In June 2010, DTP resubmitted RFC-065 for the WFCY which included a schedule showing completion of the full facility in January 2014. MWAA's position has been that DTP's completion date is incorrect in light of the questionable portrayal of WFCY scope. A schedule developed by MWAA indicates that completion of the WFC yard is feasible by the original SCCD of July 31, 2013. A large portion of the WFC Yard construction is being accomplished as Allowance Items which presents the opportunity to make Recovery Schedule scheduled completion a requirement for prospective bidders. The allowance items C-3 for the WFCY sound box and C-12 for the WFCY S&I Building were advertised on May 10, 2011. This fact along with the current progress of the early civil site and utility work suggests that a SCCD of July 31, 2013 is achievable and the PMOC agrees with this assessment.

MWAA completed negotiations with the goal of reaching a mutually agreed recovery plan. This effort resulted in the issuance of two "Directive Letters" to DTP to conduct a constructive acceleration effective December 15, 2010 on a time and material basis not to exceed seven million dollars. DTP submitted a zero loss recovery schedule on January 12, 2011. The schedule proposes a mitigation period of fourteen months, extending from January 2011 through February 2012. A detailed review and additional discussions led to MWAA's conditional acceptance of the Recovery Schedule via letter dated February 7, 2011. Both have agreed to work toward a lump sum Change Order based upon the agreed Recovery Schedule scope. The Airports Authority has completed an independent cost estimate *but no substantive negotiations have occurred to date*. MWAA is currently reviewing a revised acceleration proposal from DTP.

The PMOC considers the issuance of these directive letters and agreement on the recovery schedule scope to be a good first step toward recovery of the Contract Completion Date. However, the Project will need to reach a timely agreement on the acceleration costs and maintain this forward momentum in order to recover the -113 day mainline construction loss accrued through December 25, 2010. MWAA has completed their estimate of the acceleration cost and will start negotiations with the contractor on the cost of the recovery schedule. In addition, the Project needs to increase its efforts to resolve disagreements relative to the West Falls Church Yard (WFCY) schedule in order to minimize the risk of irretrievable schedule creep leading to costly schedule compression or at least to minimize constructive acceleration costs. This need becomes increasingly critical as the current WFCY yard completion date of *April 2*, 2014 (*another 12 day loss*) as reflected in DTP's *April 25, 2011* schedule update is far later than the original SCCD of July 31, 2013.

The majority of the design related permit issues were resolved *during* the second quarter of 2011. However, confidence that schedule recovery will begin and be sustained remains tentative until MWAA and DTP agree upon the mainline recovery schedule costs and the WFC Yard recovery schedule and costs.

The following table compares the milestone dates relative to the approved baseline schedule. The PMOC concurs with MWAA's assessment of the updated schedule.

MILESTONE	June 2008 Baseline Schedule	December 2010 RECOVERY SCHEDULE	March 2011	April 2011
Receipt of FFGA	03/03/091	03/10/09 ^A	03/10/09 ^A	03/10/09 ^A
Station Design Complete	10/21/09	02/18/11	07/29/11	08/01/11
Utility Relocation Complete	03/05/10	09/13/11	11/15/11	11/01/11
Aerial and Station Foundations Complete	3/4/11	09/01/11	08/22/11	08/17/11
NATM Tunnels Mined	01/29/11	12/03/10 ^A	12/03/10 ^A	12/03/10 ^A
K-Line Tie-In	12/23/11	03/28/12	03/29/12	04/05/12
Guideway Complete	2/12/12	09/13/12	07/25/12	07/17/12
Train Control Complete	10/26/12	10/29/12	11/08/12	11/07/12
Substantial Completion	07/31/13	07/31/13	08/08/13	10/18/13
Revenue Operations - Target	11/27/13	01/20/14	12/16/13	02/23/14
FFGA Revenue Operations	12/01/14	12/01/14	12/01/14	12/01/14

^A Actual Date

b. Important Activities - 90-Day Look Ahead

The important milestones scheduled for the next 90 days include:

- Completion of stations design with issuance of IFC Drawings.
- Completion of utility relocation.
- Property acquisitions for the Tysons West Aerial Guideway (OP-8).

¹ Date was not met.

5. Project Cost

The SCC Budget and Expenditures summary for the period ending *April 25, 2011* is as follows.

Overall, approximately 39.9 % of the budget has been expended through April 25, 2011.

FTA SCC CODE	DESCRIPTION	BASELINE BUDGET	CURRENT BUDGET ¹	EXPENDED TO DATE	ESTIMATE AT COMPLETION
10	Guideway and Track Elements	\$ 666,500,284	\$ 649,477,849	\$ 322,043,681	\$ 649,477,849
20	Stations	\$ 317,023,979	\$ 325,046,462	\$ 62,935,992	\$ 325,046,462
30	West Falls Church Yard	\$ 51,789,539	\$ 49,928,014	\$ 2,903,345	\$ 49,856,383
40	Site Work & Utility Relocation	\$ 232,936,987	\$ 233,383,360	\$ 167,144,944	\$ 254,691,652
50	Systems	\$ 278,157,645	\$ 294,730,026	\$ 47,026,973	\$ 291,991,495
60	Right of Way Acquisition	\$ 45,953,303	\$ 67,631,026	\$ 52,916,888	\$ 66,295,154
70	Vehicles	\$ 211,629,775	\$ 211,629,775	\$ 20,825,600	\$ 210,926,012
80	Professional Service	\$ 698,471,472	\$ 719,451,994	\$ 530,294,758	\$ 767,214,117
90	Contingency Mgmt. Reserve	\$ 130,000,075	\$ 81,208,556	\$ -	\$ 16,987,939
100	Finance Charge	\$ 509,984,571	\$ 509,984,571	\$ 47,799,694	\$ 509,984,571
	TOTAL (Federal portion)	\$ 3,142,471,634	\$ 3,142,471,634	\$ 1,253,891,874	\$ 3,142,471,634

Current budget equals FFGA amount plus approved Change Orders CO-001-069 074 & 077, Directive Letters 001-022 and 024-030, and UR-CO-001-033. Estimate at Completion (EAC) for Contingency reflects the amount approved for utilization per PM-5.07.

a. Explanation of Variances

The major variances in the project budget are associated in four categories as noted below:

- 1. SCC10 Guideway and Track Elements has been reduced approximately \$17 million due to the decision by the DB contractor to self perform the NATM tunnel work. In so doing, \$29.2 million was transferred out of the direct account to other accounts including predominantly SCC-80 for the professional services portion of the subcontract budget. This was offset by scope additions and other budget transfers, the most notable being the adjustment for the revised federal/non-federal split, the addition of the directive letter for crossing the Beltway during construction of the HOT Lanes Project by VDOT and the addition of sales tax to permanent materials.
- 2. SCC20 Stations has increased by \$5.87 million due to a combination of add and subtract change orders, the most notable additions being the transfer from the tunnel subcontract and the recent award of the station MEP package which was over budget.

- 3. SCC40 Site work and Utility Relocation has been increased by approximately \$22.39 million as a result of a combination of change events (change orders, directive letters and scope transfers) and forecasted overruns. The forecast adjustments are predominantly due to cost overruns in utility relocations.
- 4. SCC60 Right of Way Acquisition experienced nearly \$21.84 million increase in the right-of-way (ROW) acquisition that was primarily due to the adjustment of project cost for the revised federal/non-federal split of \$21.68 million.
- 5. SCC80 Professional Services increased approximately \$65.24 million due to a combination of change events (\$17.8 million) and forecast adjustments (\$47.44 million). The change events are numerous with the most significant being the transfer from the tunnel subcontract and the addition of design for the HOT Lanes and WFCY. The forecast adjustment is predominantly a forecasted cost overrun of soft costs including MWAA, PMSS and VDOT. In addition, WMATA budget transfers are treated as forecast adjustments.
- 6. SCC90 Contingency Management Reserve estimate at completion of \$16,987,939 is available for future use. This contingency level fails to meet the minimum of one percent of total project cost, \$27 million. Of the original \$130,000,075 in unallocated contingency, the Project has utilized \$113,012,136 to fund scope changes and forecasts. The \$64,320,617 which is the difference between the current budget and estimate at completion for SCC90 is the unallocated contingency utilized for funding the forecast increases only.

b. Monthly Cost Report, April 2011

DESCRIPTION			GA AMOUNT	EX	PENDITURE TO		ESTIMATE TO		ESTIMATE AT
			(Original)	L	DATE ¹		COMPLETE		COMPLETION
	FEDERAL (FFGA	sco	PE)						
Design-Build									
Firm Fixed Price		\$	1,112,052,172	\$	739,987,232	\$	750,763,187	\$	1,490,750,419
Firm Fixed Price Insurance and Bonds		\$	65,109,408	\$	64,800,590	\$	4,603,164	\$	69,403,754
	Firm Fixed Price Subtotal	\$	1,177,161,580	\$	804,787,822	\$	755,366,351	\$	1,560,154,173
Subcontract Allowance		\$	430,199,817			\$	190,115,612	\$	190,115,617
	Design-Build Contract Prices		1,607,361,397	\$	804,787,822	\$	945,481,963	\$	1,750,269,78
Indexed Commodity Escalation		\$	77,469,926		-	\$	57,907,009	\$	57,907,009
	Design-Build Contract Total	\$	1,684,831,324	\$	804,787,822	\$	1,003,388,972	\$	1,808,176,79
Utility Relocation									
Utility Work		\$	84,312,807	\$	91,676,164	\$	10,534,340	\$	102,210,50
Terf Tax		<u> </u>		\$	-	\$	0	_	
Project Management and Final Design		\$	8,423,426	\$	17,645,474	\$	1,050,936	_	18,696,41
	Utility Relocation Total	Ş	92,736,233	\$	109,321,638	\$	11,585,277	\$	120,906,91
Right of Way									
	Right Of Way Total	\$	42,443,132	\$	53,168,587	\$	13,751,567	\$	66,920,15
WMATA Agreement									
Vehicles		\$	195,138,329		20,825,600	\$	173,608,966	\$	194,434,56
Construction and Procurement		\$	31,484,799	\$		\$	26,833,038	\$	28,627,87
WMATA Force Account Startup		\$	13,777,100		1,265,653	\$	12,139,368	\$	13,405,02
Project Management and Final Design		\$	31,235,400	\$		\$	22,388,241	\$	35,168,17
12	WMATA Agreement Total	\$	271,635,628	\$	36,666,016	\$	234,969,613	\$	271,635,62
Preliminary Engineering ^{2,3}									
	Preliminary Engineering Total	\$	100,968,646	\$	100,730,999	\$	-	\$	100,730,999
Airports Authority Services									
General Conditions 4		\$	28,879,153	\$	5,776,359	\$	21,927,924	\$	27,704,283
Airports Authority Project Management and Wiehle		٠	22 225 747	,	20 007 405		25 422 222	,	45.040.70
Ave Garage		\$	23,225,717	\$	20,907,495	\$	25,133,299	\$	46,040,793
Project Management Support		\$	90,004,649	\$	74,733,264	\$	42,673,349	\$	117,406,613
				4	101,417,118	Ś	89,734,572	Ś	191,151,690
	Airports Authority Services Total	\$	142,109,519	\$	101,717,110			7	
Contingency ⁵	Airports Authority Services Total	\$	142,109,519	,	101,417,110	_		Υ	
Contingency ⁵	Airports Authority Services Total Contingency Total		142,109,519 297,762,579	_	-	\$	72,964,882		72,964,882
Contingency ⁵ Finance Costs				_	-		72,964,882		72,964,882
		\$		\$	47,799,694		72,964,882 462,184,877	\$	
	Contingency Total	\$	297,762,579	\$	47,799,694	<i>\$</i>		\$	509,984,57
Finance Costs	Contingency Total	\$ \$	297,762,579 509,984,571 3,142,471,634	\$	47,799,694	\$	462,184,877	\$	509,984,57
Finance Costs Total Federal (FFGA Scope)	Contingency Total Finance Costs Total	\$ \$	297,762,579 509,984,571 3,142,471,634	\$	47,799,694	\$	462,184,877	\$	509,984,57
Finance Costs Total Federal (FFGA Scope) Design-Build	Contingency Total Finance Costs Total	\$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS	\$	47,799,694 1,253,891,874	\$ \$	462,184,877 1,888,579,760	\$	509,984,57 3,142,471,63
Finance Costs Total Federal (FFGA Scope)	Contingency Total Finance Costs Total	\$ \$ \$ *	297,762,579 509,984,571 3,142,471,634	\$ \$ \$	- 47,799,694 1,253,891,874 9,053,548	\$	462,184,877	\$	509,984,573 3,142,471,634 27,943,268
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering	Contingency Total Finance Costs Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082	\$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223	\$ \$ \$	462,184,877 1,888,579,760 18,889,720	\$ \$ \$	509,984,57: 3,142,471,634 27,943,268 1,090,078
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering	Contingency Total Finance Costs Total INTERRELATED HIGHWAY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450	\$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223	\$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854	\$ \$ \$ \$	72,964,882 509,984,573 3,142,471,636 27,943,266 1,090,078 29,033,344 18,854,683
Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds	Contingency Total Finance Costs Total INTERRELATED HIGHWAY	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532	\$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223	\$ \$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854 19,032,574	\$ \$ \$ \$ \$	509,984,571 3,142,471,634 27,943,266 1,090,078 29,033,346
Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682	\$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771	\$ \$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854 19,032,574 18,854,682	\$ \$ \$ \$ \$	509,984,571 3,142,471,634 27,943,263 1,090,078 29,033,344 18,854,682
Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682	\$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771	\$ \$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854 19,032,574 18,854,682	\$ \$ \$ \$ \$	509,984,571 3,142,471,634 27,943,263 1,090,078 29,033,344 18,854,682
Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214	\$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 - 10,000,771 36,217,615	\$ \$ \$ \$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854 19,032,574 18,854,682 37,887,256	\$ \$ \$ \$ \$ \$	509,984,571 3,142,471,634 27,943,266 1,090,078 29,033,344 18,854,682 47,888,022
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214	\$ \$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 - 10,000,771 36,217,615	\$ \$ \$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854 19,032,574 18,854,682 37,887,256	\$ \$ \$ \$ \$ \$ \$	509,984,57: 3,142,471,634 27,943,26i 1,090,07i 29,033,344 18,854,68: 47,888,02;
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369	\$ \$ \$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 10,000,771 36,217,615	\$ \$ \$ \$ \$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854 19,032,574 18,854,682 37,887,256	\$ \$ \$ \$ \$ \$ \$	509,984,57: 3,142,471,634 27,943,266 1,090,07: 29,033,344 18,854,68: 47,888,02:
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 4,727,549	\$ \$ \$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 10,000,771 36,217,615 - 7,876,287	\$ \$ \$ \$ \$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854 19,032,574 18,854,682 37,887,256 3,817,157	\$ \$ \$ \$ \$ \$ \$	509,984,57: 3,142,471,634 27,943,26; 1,090,07; 29,033,344 18,854,68; 47,888,02; 40,034,77: - 8,540,11:
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax Project Management and Final Design	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 4,727,549	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 10,000,771 36,217,615 - 7,876,287	\$ \$ \$ \$ \$ \$ \$ \$ \$	462,184,877 1,888,579,760 18,889,720 142,854 19,032,574 18,854,682 37,887,256 3,817,157	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	509,984,57: 3,142,471,634 27,943,26; 1,090,07; 29,033,344 18,854,68; 47,888,02; 40,034,77: - 8,540,11:
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax Project Management and Final Design	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total Utility Relocation Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 4,727,549 36,279,918	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 - 10,000,771 36,217,615 - 7,876,287 44,093,903	\$ \$ \$ \$ \$ \$ \$ \$ \$	18,889,720 142,854 19,032,574 18,854,682 37,887,256 3,817,157 - 663,824 4,480,981	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	509,984,57 3,142,471,63 27,943,26 1,090,07 29,033,34 18,854,68 47,888,02 40,034,77 8,540,11 48,574,88
Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax Project Management and Final Design Right of Way Airports Authority Services	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total Utility Relocation Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 4,727,549 36,279,918	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 - 10,000,771 36,217,615 - 7,876,287 44,093,903 17,843,895	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18,889,720 18,889,720 142,854 19,032,574 18,854,682 37,887,256 3,817,157 	\$ \$ \$ \$ \$ \$ \$ \$ \$	509,984,57 3,142,471,63 27,943,26 1,090,07 29,033,34 18,854,68 47,888,02 40,034,77 - - 8,540,11 48,574,88 21,399,98
Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax Project Management and Final Design Right of Way	Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total Utility Relocation Total Right Of Way Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 4,727,549 36,279,918	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 - 10,000,771 36,217,615 - 7,876,287 44,093,903 17,843,895	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18,889,720 18,889,720 142,854 19,032,574 18,854,682 37,887,256 3,817,157 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	509,984,57 3,142,471,63 27,943,26 1,090,07 29,033,34 18,854,68 47,888,02 40,034,77 - - 8,540,11 48,574,88 21,399,98
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax Project Management and Final Design Right of Way Airports Authority Services General Conditions 4	Contingency Total Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total Utility Relocation Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 4,727,549 36,279,918 44,772,663	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 - 10,000,771 36,217,615 - 7,876,287 44,093,903 17,843,895	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18,889,720 18,889,720 142,854 19,032,574 18,854,682 37,887,256 3,817,157 	\$ \$ \$ \$ \$ \$ \$ \$ \$	509,984,57 3,142,471,63 27,943,26 1,090,07 29,033,34 18,854,68 47,888,02 40,034,77 - - 8,540,11 48,574,88 21,399,98
Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax Project Management and Final Design Right of Way Airports Authority Services	Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total Utility Relocation Total Right Of Way Total Airports Authority Services Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 - 4,727,549 36,279,918 44,772,663	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 - 10,000,771 36,217,615 - 7,876,287 44,093,903 17,843,895	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18,889,720 18,889,720 142,854 19,032,574 18,854,682 37,887,256 3,817,157 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	509,984,57 3,142,471,63 27,943,26 1,090,07 29,033,34 18,854,68 47,888,02 40,034,77 8,540,11 48,574,88 21,399,98 1,663,02 1,663,02
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax Project Management and Final Design Right of Way Airports Authority Services General Conditions ⁴ Contingency ⁵	Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total Utility Relocation Total Right Of Way Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 - 4,727,549 36,279,918 44,772,663	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 - 10,000,771 36,217,615 - 7,876,287 44,093,903 17,843,895 1,306,585 1,306,585	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18,889,720 142,854 19,032,574 18,887,256 37,887,256 3,817,157 663,824 4,480,981 3,556,091 356,444 356,444	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	509,984,57: 3,142,471,634 27,943,266 1,090,076 29,033,344 18,854,68: 47,888,02: 40,034,777: 8,540,11: 48,574,88: 21,399,98: 1,663,02: 1,663,02: 3,682,30:
Finance Costs Total Federal (FFGA Scope) Design-Build Firm Fixed Price - Engineering Firm Fixed Price Insurance and Bonds Subcontract Allowance Utility Relocation Utility Work Terf Tax Project Management and Final Design Right of Way Airports Authority Services General Conditions 4	Finance Costs Total INTERRELATED HIGHWAY Firm Fixed Price Subtotal Design-Build Contract Total Utility Relocation Total Right Of Way Total Airports Authority Services Total	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	297,762,579 509,984,571 3,142,471,634 PROVEMENTS 5,929,082 2,889,450 8,818,532 18,854,682 27,673,214 31,552,369 - 4,727,549 36,279,918 44,772,663	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	47,799,694 1,253,891,874 9,053,548 947,223 10,000,771 10,000,771 36,217,615 - 7,876,287 44,093,903 17,843,895 1,306,585 1,306,585	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18,889,720 18,889,720 142,854 19,032,574 18,854,682 37,887,256 3,817,157 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	509,984,57: 3,142,471,634 27,943,266 1,090,076 29,033,344 18,854,68: 47,888,02: 40,034,77: - 8,540,11: 48,574,88: 21,399,98: 1,663,02: 1,663,02:

¹ Reflects Paid costs through April 25, 2011.

² Preliminary Engineering Period (PE) - Prior to August 1, 2007

³ Preliminary Engineering actuals have been agreed to be \$100,730,999 This is \$237,646 under the original budget of \$100,968,646 The under run is transferred to unallocated contingency

⁴ The line item marked General Conditions includes Temporary Facilities Development, Hazardous Material Remediation, Miscellaneous Access Roads and Wiehle Avenue Garage

⁵ Estimate at Completion for Contingency reflects the amount approved for utilization per PM-5 07

c. Project Funding Sources: April 2011

SOURCES OF CAPITAL FUNDING	GRANT ID	PERCENT AT COMPLETE		TOTAL	Е	XPENDED TO	PERCENT FUND SOURCE EXPENDED TO DATE	ı	REMAINING
Sec 5309 New Starts Federal Funds	•								
Preliminary Engineering Grants			\$	54,412,526	\$	54,412,526	100%	\$	-
Final Design Grant	VA-03-0113-00		\$	159,001,838	\$	159,001,838	100%	\$	-
ARRA Construction Grant	VA-36-0001-00		\$	77,260,000	\$	77,260,000	100%	\$	-
FFGA Construction Grant	VA-03-0113-02		\$	28,809,000	\$	28,809,000	100%	\$	-
FFGA Construction Grant	VA-03-0113-03		\$	85,000,000	\$	82,888,987	98%	\$	2,111,013
FFGA Construction Grant									
(amendment for FTA review)	VA-03-0113-04		\$	19,799,000			0%	\$	19,799,000
FFGA Balance	Planned		\$	475,717,636	\$	-	0%	\$	475,717,636
Subtotal - New Starts		28.64%	\$	900,000,000	\$	402,372,351	44.71%	\$	497,627,649
Sec 5307 Surface Transportation Program Construction Grant	VA-95-X056-01		\$	47,218,109		47,218,109	100%	\$	-
Construction Grant Construction Grant	VA-95-X056-01 VA-95-X056-02		\$	21,281,890		47,218,109	100% 0%	\$	21,281,890
STP Balance	Planned		\$	6,500,001	_		0%	\$	6,500,001
STP/Sec. 5307	1 idililod	2.39%	\$	75,000,000		47,218,109	63%	\$	27,781,891
Local Funds									
VTA 2000			\$	51,700,000	\$	51,700,000	100%	\$	-
Commonwealth Transportation Bonds ²			\$	125,000,000	\$	113,433,213	91%	\$	11,566,787
Fairfax County Funds ³			\$	523,750,000	\$	94,000,000	18%	\$	429,750,000
Dulles Toll Road Revenues ^{2,4}			\$	1,467,021,634	Ė	545,168,201	37%	\$	921,853,433
Subtotal - Local Funds		68.97%	\$:	2,167,471,634	\$	804,301,414	37.11%	\$	1,363,170,220
Total Project Budget		100%	\$:	3,142,471,634	\$	1,253,891,874	39.90%	\$	1,888,579,760
Interrelated Highway Activities		1	\$	123,208,229	\$	73,245,154	59.45%	\$	49,963,075
DTR Revenues/Commonwealth Fur	nds³		\$	123,208,229	\$	73,245,154	59.45%	\$	49,963,075
		Total	\$:	3,265,679,863	\$	1,327,137,028	40.64%	\$	1,938,542,835

¹ Reflects costs through April 2011

6. Project Risks

In August 2008, the PMOC was directed by the FTA to resume the risk process and to prepare a report that combines the requirements of PG-40: Subtasks PG-40E, PG-40F, and PG-40G. These subtasks are to identify the framework for primary and secondary mitigation of project cost and schedule. A draft PG-40EFG report was prepared and the Risk Register was updated. The documents were shared with MWAA and a workshop was held on August 26-27, 2008 to review the Risk Register, reach a consensus on the top ten costs and schedule risks and to identify MWAA's cost, schedule and secondary mitigation procedures. The PMOC issued the Final PG-40EFG spot report on October 6, 2008.

Through *April 25*, *2011*, MWAA reports that it has utilized \$189,484,753 of the available authorized federal contingency of \$200,000,000 for Contingency Phases 1 through 5. The contingency utilization reflects expended and obligated costs. Phases 1 and 2 were to carry the Project through the completion of stations design, which was anticipated to have been completed by the end of the third quarter of 2009. The completion of stations design is now anticipated during the second quarter of 2011. Phase 3 would complete the Utility Relocation Program now anticipated to be fully complete in the third quarter of 2011. MWAA reports that it has \$35,312,946 obligated from Phase 6 through 10 monies. Of the total project contingency of \$297,762,579, the project has \$72,964,880 available.

² In January 2010, \$23.6M previously identified as pay-go Dulles Toll Road (DTR) Revenues were reclassified as Commonwealth Transportation Board (CTB) funds, reducing the contribution from DTR revenues and increasing the contribution from CTB funds.

³ Includes Tax District Revenues (\$400M) plus debt service costs allocated to Project Budget.

⁴ Includes pay-as-you-go revenues and bond proceeds.

MWAA has been following their Risk Management Plan dated October 2008. The PMOC requested that MWAA update the Risk Management Plan. The Project Team has engaged the Risk Consultant used to prepare the original Risk Analysis to prepare the update to the Risk and Contingency Management Plan (RCMP). The consultant submitted a draft of the Risk Assessment (Analysis), a primary component of the RMP, to MWAA in December 2010. MWAA and the PMOC discussed the draft on January 26, 2011 and determined that some refinements were needed. MWAA submitted a hard copy draft report on January 31, 2011 and an electronic copy for review on February 24, 2011. The FTA and PMOC requested that the Report be revised. The PMOC provided guidance to arrive at an acceptable reformatting. The PMOC reviewed MWAA's updated risk assessment dated April 15, 2011. The FTA and PMOC met with MWAA on May 3, 2011 to discuss the PMOC's review comments. It was decided that the assessment needed adjustment to accurately reflect the changing realities of the Project, to include an analysis of what the potential Kawasaki 7000 series cars delay will have on the Project schedule and FFGA completion date. MWAA decided that it would do an internal revision to the Draft Risk Assessment and would communicate adjustments and progress on a biweekly basis with the PMOC. MWAA submitted a draft "Risk and Contingency Management Plan" on June 3, 2011 which is currently being reviewed by the FTA and PMOC. New Top Ten Risks as identified from the draft Risk Assessment were included in the handouts for this Monthly Update Meeting and will be reviewed by the FTA and PMOC. It is anticipated that once agreed upon, the Top Ten Risks as identified from the Risk Analysis would replace those previously reported. MWAA will complete the RCMP upon incorporation of PMOC review comments, if any. MWAA continues to monitor the risk status and reports this information on a monthly basis.

With regard to Schedule Contingency, the Project has agreed to a zero loss recovery schedule with a data date of December 25, 2010. This conditionally approved recovery schedule has a mitigation period of fourteen months, extending from January 2011 through February 2012 to recover 113 calendar days of the total of 510 calendar days. Schedule contingency is 439 calendar days, based upon the *April* 25 schedule update.

The following are the Project's current top 10 cost and schedule risks, along with their status.

Top 10 Project Risks

Risk	Risk Description	SCC	Risk C	ategory	Status
No.		Reference	Cost	Sched	(Change from Previous Month)
M-21	Allowance items- a substantial part of the contract price is tied to "Allowance Subcontracts." There is potential risk for increased project cost and schedule if the actual subcontracts exceed the allocated cost and schedule components in the contract.	10, 20, 30, 40, 50	X	X	Unchanged. Twenty-two of thirty-five sub-contract packages have been awarded to date. The variance of the awarded cost versus allowance budget is \$44.74 million. A sharp increase is expected in the coming quarter.
C-8	NATM tunnel—there are a limited number of qualified tunneling contractors, unforeseen conditions, tunnel collapse, production rate slower than anticipated, and possible critical path delay.	10.07	X	X	Closed.
C-29	Soils Management – risk that costs for disposal of soil (clean and contaminated) may exceed budget.	40.1	X	X	Unchanged. Agreements with MWAA allow "clean" soils, which represent about 90% of all project soils to be transferred to Laydown Area #11, and management of contaminated soils is being mitigated as schedule progresses.
D-29	WFCY maintenance annex – Design constraints and WMATA requirements may erode the cost reductions anticipated.	30	X		Unchanged.
C-34	Utility companies performing utility relocation are not performing in accordance with the durations incorporated in the project schedule.	40.02	X	X	Schedule risk closed. Cost risk remains. (Replaced risk C-14.) Utility contractors have completed all critical relocation work in October 2010. As of May 25, 2011, five UR change orders remain under review.

Risk	Risk Description	SCC	Rick (Category	Status
No.	MSK Description	Reference	Cost	Sched	(Change from Previous Month)
M-16	Cost risk for vehicle procurement — size and timing of base order and options could change the car manufacturer's interest in project and proposal pricing; vehicles may not be available in time for revenue operations.	20.01 20.02	X	X	Cost risk closed. Schedule risk remains. Bids were received on June 19, 2009. The WMATA Board awarded the contract to Kawasaki on July 27, 2010. NTP was issued on August 16, 2010. However, the conditional acceptance of the 64 th car for the Project, as contained in the bid, is not scheduled until January 15, 2015, which does not support Project needs. In addition, the earthquake/tsunami may delay the procurement further. PMOC requested MWAA to include a schedule risk since the schedule does not currently meet the FFGA date.
M-12	Unpredictability of ROW settlement costs.	10.04	X		Unchanged. Use of condemnation has increased the ROW costs.
C-20	WMATA scope of work, including site access support, technical support and WMATA construction elements may exceed the budget and schedule. In addition, there is the risk that WMATA will have difficulty supporting the DB contractor's requirements.	10.00 20.00 50.00	X	X	Unchanged. Technical support for design has been generally provided in a timely manner. SSWPs required to access WMATA property are lengthy. There is potential risk with WMATA directing systems design upgrades for ATC, Traction Power and Communications systems.
D-19	Cost of Dominion Virginia Power (DVP) 34.5 kV distribution – Level of design is not typical of 100% PE design.	50.04	X		Unchanged. Design of ductbank that will contain 34.5 kV power the length of project has been completed and the ductbank construction continues. Design by DVP to bring power to project has not been completed.

Risk	Risk Description	SCC	Risk C	ategory	Status
No.	_	Reference	Cost	Sched	(Change from Previous
					Month)
D-27	Permit Approvals – Potential delays due to the Virginia Department of Transportation (VDOT) requiring their review/approval of final design plans prior to Issued for Proposal (IFP) submittals. Potential delays due to the Department of General	10.00 20.00 40.00	X	X	Unchanged. The issuance of construction permits is taking longer than anticipated and the contractor is claiming that its costs are increasing. The Six Sigma process improved turnaround time with VDOT. The VDOT requirement for final
	Services (DGS) making design- related comments rather than strictly permit/code comments.				design plans prior to IFP submittals may increase the risk. In addition, DGS is making design-related comments rather than strictly code/permit evaluations.

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7. Action Items

MWAA - DULLES CORRIDOR METRORAIL PROJECT - Items for Grantee Action

PR	ITEM	IDENTIFICATION	NATURE of PROBLEM	D	A	I	COMMENTS	STATUS
1	2B.01	Final Testing Plan for	MWAA approved the final	Y	Y	Y	DTP and CTI Final Reports and MWAA's	R
		Re-used Piers	testing plan (Rev 0)				audit of the findings and pier designs were	
		(Feb. 2010)	proposed by DTP for the				submitted to the FTA, PMOC and WMATA on	
			Re-used Piers on March 30,				October 19, 2010 for review. The PMOC	
			2010.				recommended that continuity testing data be	
							submitted for all eleven newly constructed	
							piers on existing pier foundations Three interim	
							reports covering the acceptable continuity	
							testing on ten of eleven piers were transmitted	
							to the FTA by letters dated November 24,	
							2010, December 17, 2010 and January 24,	
							2011. Continuity testing of Pier 5B-OB was	
							completed on June 8, 2011. The Airports	
							Authority President and Chief Executive	
							Officer sent a wrap-up letter to the FTA	
							Administrator on April 8, 2011, stating that	
							had accepted the DTP Inspection and Test	
							Program Final Report for Existing Pile	
							Foundations. It also outlined follow-up testing	
							to be performed with the anti-corrosion	
							measures recommended by UTRS. A plan and	
							schedule for conducting these remaining tasks	
							will be forwarded to the FTA upon receipt and	
							approval by the Airports Authority.	

4	2A.03	Update Risk	and	The original	Risk	N	N	N	MWAA has engaged their Risk Management	R
		Contingency		Management Plan	n was				Consultant who has prepared a draft revised	
		Management	Plan	prepared in Octobe	er 2008				Risk Assessment (Analysis). The analysis was	
		(RCMP)		and needs to be up	dated to				submitted to the FTA and PMOC on January	
		(October 2010)		reflect the current	Project				31, 2011. It is anticipated that once agreed	
				Status.	-				upon, the Top Ten Risks as identified from the	
									Risk Analysis will replace those previously	
									reported MWAA submitted a draft "Risk	
									Management Plan" on June 3, 2011 which is	
									currently being reviewed by the FTA and	
									<i>PMOC.</i> Upon incorporation of PMOC review	
									comments, if any, the RCMP will be completed	
									by MWAA.	

KEY ITEM

Subtask 2A CLIN 0002A - PMP Review Subtask 2B CLIN 0002 - On-Site Monitoring

LEGEND

PMO CONTRACTOR STATUS
R - Review On-going

PRIORITY (PR) 1- Most Critical GRANTEE ACTION

D – Remedial Action Developed

A – Remedial Action Approved I – Action Implemented C – Completed – No further review required 2- Critical

3- Least Critical

Note – Items marked with a 'C' in the 'PMO Contractor Status' column will be dropped from future reports.

APPENDICES

APPENDIX A - LIST OF ACRONYMS

AAC Agreement After Certificate

AMEP Architectural/Mechanical/Electrical/Plumbing ARRA American Reinvestment and Recovery Act

ASSHTO American Association of State Highway and Transportation Officials

BFMP Bus Fleet Management Plan CAR Corrective Action Request

CCC Construction/Procurement/Installation Conformance Checklist

CD Calendar Days

CPM Critical Path Method CTI Consultants, Inc.

CY Calendar Year DB Design-Build

DCC Design Conformance Checklist

DCN Design Change Notice

DGS (Virginia) Department of General Services
DIAAH Dulles International Airport Access Highway

DR Deficiency Report

DTP Dulles Transit Partners, LLC

DTR Dulles Toll Road

DVP Dominion Virginia Power
FFGA Full Funding Grant Agreement
FTA Federal Transit Administration

FTE Full Time Equivalent

FY Fiscal Year

HOT High Occupancy Toll
IFC Issued For Construction
IFP Issued for Proposal

IRR Issue Requiring Resolution

KSA. INC – Producer of Concrete Crossties

MH Manhole

MCI A communication company now owned by Verizon

MEP Mechanical, Electrical and Plumbing

MOT Maintenance of Traffic

MWAA Metropolitan Washington Airports Authority

NATM New Austrian Tunneling Method ORD Operational Readiness Date

PDA Pile Driving Analysis

PDR Preliminary Design Review (7K Railcars)

PE Preliminary Engineering

PMOC Project Management Oversight Contractor PMSS Project Management Support Services

PMP Project Management Plan

QA Quality Assurance QC Quality Control

QPP Quality Program Plan

RAMP Real Estate Acquisition Management Plan RCMP Risk and Contingency Management Plan

RFMP Rail Fleet Management Plan RMP Risk Management Plan ROD Revenue Operations Date

ROE Right-of-Entry ROW Right-of-Way

SAIC Scientific Applications International Corporation

SCC Standard Cost Category

SCIL Safety and Security Certifiable Items List

SOE Support of Excavation

SSCD Scheduled Substantial Completion Date SSMP Safety and Security Management Plan

SSWP Site Specific Work Plan

STP Surface Transportation Program

TBD To Be Determined

TOC Tri-state Oversight Committee TPSS Traction Power Substation

UR Utility Relocation

VDOT Virginia Department of Transportation

W&OD Washington and Old Dominion

WFC West Falls Church
WFCY West Falls Church Yard

WMATA Washington Metropolitan Area Transit Authority

XO Executive Officer

APPENDIX B -- PROJECT OVERVIEW AND MAP

Project Overview

Date: June 30, 2011 (reporting current through May 2011- Financials through April 2011)

Project Name: Dulles Corridor Metrorail Project – Extension to Wiehle Avenue

Grantee: Metropolitan Washington Airports Authority (MWAA)

FTA Regional Contact: Brian Glenn, P.E. FTA Headquarters Contact: Dale Wegner, P.E.

Scope

- **Description:** MWAA The Project is the initial 11.7-miles of the LPA, which will run from the current Metrorail Orange Line near the West Falls Church (WFC) station to Wiehle Avenue in Reston, providing direct service to the commercial and office center of Tysons Corner. The Project will be constructed in or parallel to the Dulles Connector Road, Routes 123 and 7 through Tysons Corner, and the Dulles International Airport Access Highway (DIAAH). It will include five new passenger stations, one 2,300-car parking facility (provided through a joint development agreement at Wiehle Avenue Station), improvements to the existing WFC Service and Inspection Yard, tail tracks outbound of the interim terminus station at Wiehle Avenue, and the procurement of 64 rail cars.
- **Guideway:** Phase 1 is approximately 11.7 miles in length consisting of two tracks.
- **Stations:** There are five stations in Phase 1. Each station will include a kiss-n-ride area; bus drop-off facilities; station platforms with benches, canopies, ticket vending machines; and other amenities.
- **Support Facilities:** There will be a modification to the West Falls Church Yard and service building. A tail track will be constructed beyond the Wiehle Avenue Station.
- **Vehicles:** The Project will include the purchase of sixty-four vehicles for Phase 1 that will be procured by WMATA.

Ridership

The Project is estimated to carry 69,700 average weekday riders during opening year.

Schedule

06/10/04	Approval to Enter PE	2011	Estimated Rev Ops at Entry to PE	
05/12/08	Approval to Enter FD	12/04/13	Estimated Rev Ops at Entry to FD	
03/10/09	FFGA signed	12/01/14	Estimated Rev Ops at FFGA	
02/23/14	Revenue Operations Date (ROD) as of April 25, 2011			
40.0%	Percent Complete Construction as of May 31, 2011.			
38.9%	Percent Complete Time based on ROD of December 1, 2014 (based on FFGA)			
52.33%	MWAA's Estimate of Project Earned Value through April 2010			

Cost

\$1.490 billion

\$2.961 billion

\$3.142 billion

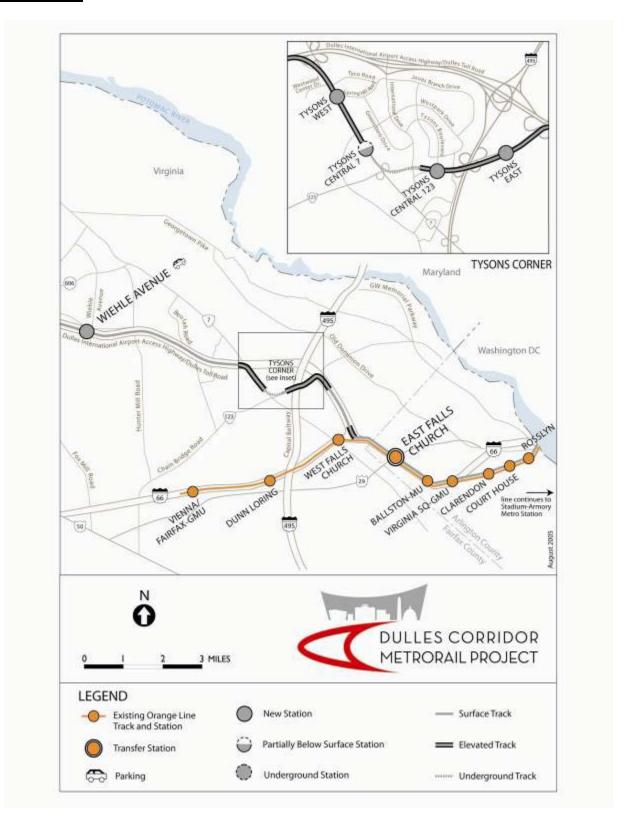
\$1.253 billion

\$72.964 million

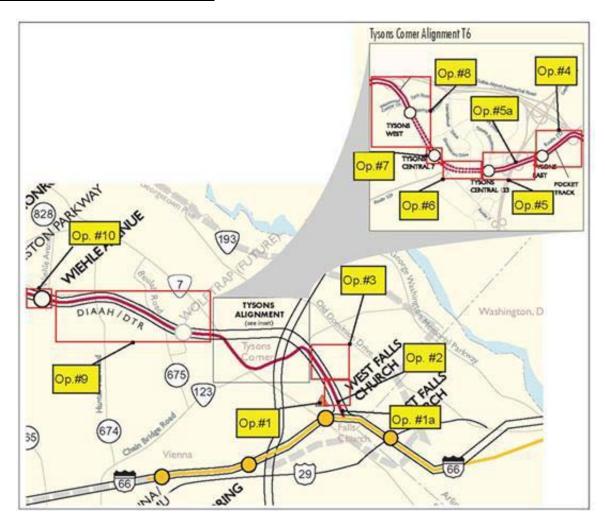
Total Project Cost (\$YOE) at Approval to Enter PE
Total Project Cost (\$YOE) at Approval to Enter Final Design
Total Project Cost at date of report including \$510 million in Finance Costs
Expenditures through April 2010 from total project budget of \$3.142 billion
Percent complete based on federal expenditures through April 2011.

Total project contingency remaining (allocated and unallocated) through April 2011.

Project Map



Construction Operational Areas



APPENDIX C - MWAA SAFETY AND SECURITY CHECKLIST

Project Overview	Dulles Corridor Metrorail Project		
Project Mode (Rail, Bus, BRT, multimode)	Rail		
Project Phase (Preliminary Engineering, Design, Construction, or Start-up)	Design and Construction		
Project Delivery Method (Design/Build, Design/Build/Operate/Maintain, CMGG, etc)	Design/Buil	ld	
Project Plans	Version	Review By FTA	Status
Safety and Security Management Plan	9/2009		Accepted
Safety and Security Certification Plan			Under development; 98% complete
System Safety Program Plan	1/20/2011		In response to FTA's Safety and Security Oversight Audit of TOC/WMATA and TOC Triennial Review findings, WMATA submitted an updated SSPP dated January 20, 2011, which was approved by TOC on February 22, 2011 with minor comments to be addressed in the next revision.
System Security Plan or Security and Emergency Preparedness Plan (SEPP)			WMATA submitted a revised SEPP to TOC in March 2010. TOC approved the SEPP on August 2, 2010.
Construction Safety and Security Plan			Addressed in PMP, which is under revision.

Safety and Security Authority	Y/N	Notes/Status
Is the grantee subject to 49 CFR Part 659 State Safety Oversight requirements?	Y	Tri-State Oversight Committee (TOC)
Has the State designated an oversight agency as per Part 659.9?	Y	Tri-State Oversight Committee (TOC)
Has the oversight agency reviewed and approved the grantee's SSPP as per 659.17?	N	An updated WMATA SSPP dated January 20, 2011 was approved by TOC on February 22, 2011.

Has the oversight agency reviewed and approved	Y	Approved on August 2, 2010
the grantee's Security Plan or SEPP as per Part		
659.21?		
Did the oversight agency participate in the last	Y	TOC had two representatives at the
Quarterly Program Review Meeting?		January 26, 2011 QPRM.
Has the grantee submitted its safety certification	N	Plan in progress. TOC participates in
plan to the oversight agency?		monthly meetings.
Has the grantee implemented security directives	N	WMATA will be operator.
issues by the Department Homeland Security,		
Transportation Security Administration?		

SSMP Monitoring	Y/N	Notes/Status
Is the SSMP project-specific, clearly	Y	
demonstrating the scope of safety and security		
activities for this project?		
Grantee reviews the SSMP and related project	Y	
plans to determine if updates are necessary?		
Does the grantee implement a process through	N	WMATA
which the Designated Function (DF) for Safety		
and DF for Security are integrated into the overall		
project management team? Please specify.		
Does the grantee maintain a regularly scheduled	N	WMATA
report on the status of safety and security		
activities?		
Has the grantee established staffing requirements,	N	WMATA
procedures and authority for safety and security		
activities throughout all project phases?		
Does the grantee update the safety and security	N	WMATA
responsibility matrix/organizational chart as		
necessary?		
Has the grantee allocated sufficient resources to	N	WMATA
oversee or carry out safety and security activities?		
Has the grantee developed hazard and	Y	
vulnerability analysis techniques, including		
specific types of analysis to be performed during		
different project phases?		
Does the grantee implement regularly scheduled	Y	
meetings to track to resolution any identified		
hazards and/or vulnerabilities?		
Does the grantee monitor the progress of safety	Y	Design and Construction only.
and security activities throughout all project		WMATA participates
phases? Please describe briefly.		
Does the grantee ensure the conduct of		
preliminary hazard and vulnerability analyses?		
Please specify analyses conducted.		

Has the grantee ensured the development of safety design criteria?	Y	
Has the grantee ensured the development of security design criteria?	Y	
Has the grantee ensured conformance with safety and security requirements in design?	Y	
Has the grantee verified conformance with safety and security requirements in equipment and materials procurement?	Y	
Has the grantee verified construction specification conformance?	Y	
Has the grantee identified safety and security critical tests to be performed prior to passenger operations?	Y	In progress, 98% complete.
Has the grantee verified conformance with safety and security requirements during testing, inspection and start-up phases?	N	After SSCD
Does the grantee evaluated change orders, design waivers, or test variances for potential hazards and /or vulnerabilities?	Y	
Has the grantee ensured the performance of safety and security analyses for proposed work-arounds?	Y	
Has the grantee demonstrated through meetings or other methods, the integration of safety and security in the following: • Activation Plan and Procedures • Integrated Test Plan and Procedures • Operations and Maintenance Plan • Emergency Operations Plan	Y	
Has the grantee issued final safety and security certification?	N	
Has the grantee issued the final safety and security verification report?	N	

Construction Safety	Y/N	Notes/Status
Does the grantee have a	Y	
documented/implemented Contractor Safety		
Program with which it expects contractors to		
comply?		
Does the grantee's contractor(s) have a	Y	DTP's Construction Safety, Health and
documented company-wide safety and security		Security Plan accepted on January 6,
program plan?		2009.
Does the grantee's contractor(s) have a site-	Y	
specific safety and security program plan?		
Provide the grantee's OSHA statistics compared	N	
to the national average for the same type of work?		

If the comparison is not favorable, what actions		
are being taken by the grantee to improve its		
safety record?		
Does the grantee conduct site audits of the	Y	
contractor's performance versus required		
safety/security procedures?		

Federal Railroad Administration	Y/N	Notes/Status
If shared track: has grantee submitted its waiver	N/A	Heavy Rail Transit Project. No FRA
request application to FRA? (Please identify		involvement.
specific regulations for which waivers are being		
requested)		
If shared corridor: has grantee specified specific	N/A	
measures to address shared corridor safety		
concerns?		
Is the Collision Hazard Analysis underway?	N/A	
Other FRA required Hazard Analysis – Fencing,	N/A	
etc.?		
Does the project have Quiet Zones?	N/A	
Does FRA attend the Quarterly Review	N/A	
Meetings?		

APPENDIX D - PMOC TEAM PERFORMING THIS REVIEW

