



Dulles Corridor Metrorail Project

**MONTHLY COST AND SCHEDULE UPDATE
FOR PHASES 1 AND 2
AS OF OCTOBER 31, 2014**

DECEMBER 2014

Phase 1 Cost Summary

| | | |
|------------------------|----|---------------|
| October Expenditures | \$ | 4.3 Million |
| Total Expenditures | \$ | 2.722 Billion |
| Forecast at Completion | \$ | 2.905 Billion |

Phase 1 Contingency Utilization

| | |
|---|-------------------------|
| <u>Total Contingency</u> | <u>\$ 462.3 Million</u> |
| Contingency Utilized through September 2014 | \$ 446.5 Million |
| Contingency Utilized in October 2014 | \$ 1.8 Million |
| Total Contingency Utilized through October 2014 | \$ 448.3 Million |
| <u>Remaining Contingency</u> | <u>\$14.0 Million</u> |

Phase 1 October Contingency Utilization

| | |
|---|-----------------------|
| Total Contingency Utilized in October 2014 | \$ 1.8 Million |
| • Additional Funding for West Falls Church Yard | \$ 1.0 Million |
| • Pavilion and Pedestrian Bridge Finishes | \$ 0.2 Million |
| • Additional Funding for ATC Technology Upgrade Replacement of Remote Terminal Unit (RTUs) | \$ 0.5 Million |
| • Miscellaneous (items less than \$0.1 million) | \$ 0.1 Million |

Status of Phase 1 Activities

- Activities Extending beyond Revenue Service Date:
 - Contract for replacement of RTUs
 - Notice To Proceed on November 20, 2014
 - Power frequency track circuits/bobbing track circuits - WMATA to perform
 - Loss of Speed Read Outs (LSROs)/cab flips
 - Art in Transit
 - Heat Tape equipment modifications and testing
 - Punch list
 - Deficiency work and late changes that were mutually agreed to be delayed to Post-RSD via WMATA Cooperative Agreement Amendment #5.

Phase 2 Cost Summary

| | | |
|----------------------|----|---------------|
| October Expenditures | \$ | 21.7 Million |
| Total Expenditures | \$ | 317.8 Million |
| Total Budget | \$ | 2.778 Billion |
| Total Forecast | \$ | 2.778 Billion |

Phase 2 Contingency Utilization

| | |
|---|-------------------------|
| <u>Total Contingency</u> | <u>\$ 551.5 Million</u> |
| Contingency Utilized through September 2014 | \$ 6.2 Million |
| Contingency Utilized in October 2014 | \$ 4.5 Million |
| Total Contingency Utilized through October 2014 | \$ 10.7 Million |
| <u>Remaining Contingency</u> | <u>\$ 540.8 Million</u> |



Phase 2 October Contingency Utilization

| | |
|--|-----------------------|
| Total Contingency Utilized in October 2014 | \$ 4.5 Million |
| • CRC Recovery Team – Supplemental Staff Cost | \$ 0.3 Million |
| • Dulles Station HVAC Design Changes | \$ 0.2 Million |
| • Dulles Station Foundation Wall Design | \$ 0.3 Million |
| • Super-elevation Speed and Track Gauge Design | \$ 0.2 Million |
| • Mechanical Changes in Stations | \$ 0.1 Million |
| • Virginia Stormwater Management Program Part II-B – Partial Construction Cost | \$ 3.0 Million |
| • Interlocking Track Circuit Reliability | \$ 0.1 Million |
| • Miscellaneous (Items less than 0.1 million) | \$ 0.3 Million |

Phase 2 Key Milestones

| | |
|---|---------------|
| Package A, Main Alignment D/B, Notice to Proceed (NTP) | July 2013 |
| Program Management and Support Services (NTP) | July 2013 |
| Package B, WMATA Rail Yard and Maintenance Facility D/B, Award | July 2014 |
| Package B NTP | August 2014 |
| Package S, Site Preparation for the WMATA Rail Yard and Maintenance Facility D/B, Contract Completion | December 2014 |
| Contract Completion for Package A | 2018 |
| Contract Completion for Package B | 2018 |

Phase 2 Package A Activities

Current

- Project design/field surveys
- Advancement of permits for critical design packages;
 - DP-007.1 (Systems Dulles Seg 34.5 kV Duct Bank) - Permit issued Nov 18, 2014
 - DP-006.1 (Systems East Early Duct Bank) - Permit issued Nov 18, 2014
 - DP-033 (Yard Leads - Superstructure) - Permit issued Nov 14, 2014
 - DP-020.1 (Civil - Innovation Center Foundation) - Permit issued Nov 7, 2014
 - DP-032 (Yard Leads - Substructure) - Permit issued Nov 4, 2014
- Utilities relocation at Piers 60, 67, and 78 west of Dulles Airport station
- GSE building substructure demolition
- Pour drilled shafts, columns, and pier caps (Segments N10 and N96 west of Dulles Airport station)
- Field Office Laydown area – concrete foundations, water and sewer installation (AP-4)

Phase 2 Package A Activities

Upcoming

- Dulles Station roadway improvements (Segment N10)
- Segment N09: Innovation Station construction
- Field Office Laydown area – trailer installation (AP-4)
- Pour drilled shafts, columns, and pier caps (Segments N10, N96, and N98 Yard lead)

Phase 2 Package B Activities

Current

- Submission of 30% design for overall project
- Submission and review of project Procedures and Management Plans
- Geotechnical borings

Upcoming

- Project Detailed Design

Phase 2 Package S Activities

Completed

- Grooming haul roads and rebuilding Operations Road
- Site final grading and landscaping
- Trickle ditches for storm basin 1A and 1B
- Concrete head walls at culverts

Upcoming

- Minor site maintenance and grading for early next year



Ronald Reagan Washington National Airport



Dulles Corridor Metrorail Project



Dulles Toll Road



Washington Dulles International Airport



**METROPOLITAN WASHINGTON
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DULLES CORRIDOR METRORAIL PROJECT - PHASE 1
MONTHLY COST SUMMARY
As of October 31, 2014

| Description | Budget | Budget | Total | Budget Variances | | Expenditures to Date | | Contract | Contract |
|--|------------------------------|----------------------|-----------------------|------------------|-------------|----------------------|------------|-----------|-------------|
| | Authorization ^{1,6} | Amount ² | Forecast ³ | Amount | Percent | Amount | Total | NTP | Substantial |
| | a | | b | Over / (Under) | | c | Percent | | Note 5 |
| | | | | b-a | b-a/a | | c/b | | |
| DULLES CORRIDOR METRORAIL PROJECT - PHASE 1 | | | | | | | | | |
| DESIGN-BUILD | 2,027,776,076 | 1,712,504,539 | 2,027,641,804 | (134,272) | 0.0% | 1,973,199,414 | 97% | 2-Mar-09 | 9-Sep-13 |
| UTILITY RELOCATION | 188,240,026 | 129,016,151 | 188,240,026 | (0) | 0.0% | 176,067,584 | 94% | 1-Aug-07 | 30-Sep-10 |
| ROW | 86,769,130 | 87,215,795 | 83,222,235 | (3,546,895) | -4.1% | 77,463,189 | 93% | 1-Aug-07 | 28-Feb-10 |
| WMATA | 278,485,628 | 271,635,628 | 278,485,628 | 0 | 0.0% | 173,631,208 | 62% | 28-Jul-07 | 8-Dec-13 |
| PRELIMINARY ENGINEERING ⁴ | 100,730,999 | 100,968,646 | 100,730,999 | 0 | 0.0% | 100,730,999 | 100% | 28-Jun-04 | 30-Jun-08 |
| PROJECT MANAGEMENT | 223,693,141 | 142,109,519 | 227,374,308 | 3,681,167 | 1.6% | 221,245,568 | 97% | n/a | n/a |
| TOTAL FOR DCMP | 2,905,695,000 | 2,443,450,278 | 2,905,695,000 | (0) | 0.0% | 2,722,337,962 | 94% | | |

Notes:

- Budget Authorization based on FFGA project budget with estimated contingency spread among line items; includes interrelated highway improvements; does not include financing costs.
- Budget Amount is based on FFGA project budget but does not include finance costs and contingency distribution.
- Total Forecast includes approved change orders, estimates at completion and the estimated cost of future contingency utilization. It does not include finance costs.
- Preliminary Engineering expenditures have been agreed to be \$100,731,000. This is \$237,646 under the original budget of \$100,968,646. The under run is transferred to unallocated contingency.
- Design-Build Contract Substantial date was revised from the original date of 7/31/2013 to 9/9/2013.
- Additional Budget Authorization of \$150 million was approved by the Airports Authority's Board on June 22, 2012.

Legend: Black - Forecast within Authorization

Green - Forecast less than 3% over Authorization

Red - Forecast greater than 3% over Authorization



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**DULLES CORRIDOR METRORAIL PROJECT - PHASE 1
CONTINGENCY UTILIZATION
As of October 31, 2014**

| Description | Amount in million (\$) | |
|--|------------------------------|-------|
| DULLES CORRIDOR METRORAIL PROJECT - PHASE 1 | | |
| Total Contingency (including additional funding) | \$ | 462.3 |
| Contingency Utilized through September 2014 | \$ | 446.5 |
| Expended Contingency in October 2014* | \$ | 1.8 |
| Total Contingency Utilized through October 2014 | \$ | 448.3 |
| Remaining Contingency | \$ | 14.0 |

*See table below for details

| | | | |
|---|-------|----|-----|
| Additional Funding for West Falls Church Yard | | \$ | 1.0 |
| Pavilion and Pedestrian Bridge Finishes | | \$ | 0.2 |
| Additional Funding for ATC Technology Upgrade Replacement of RTUs | | \$ | 0.5 |
| Miscellaneous (<i>items less than \$0.1 million</i>) | | \$ | 0.1 |
| | TOTAL | \$ | 1.8 |



| Airport | Project No | Description | Original Budget Amount | Budget Authorization |
|--|------------|---|---------------------------|-------------------------|
| DULLES CORRIDOR METRORAIL PROJECT - PHASE 1 | | | | |
| DESIGN-BUILD | | | | |
| DCMP | 5101/5103 | DTP - FFP | 1,185,980,111 | 1,322,086,717 |
| DCMP | 5101/5103 | Trackwork Allowance | 75,378,042 | 88,408,431 |
| DCMP | 5101/5103 | Station Finishes & MEP Allowance | 81,953,493 | 96,120,562 |
| DCMP | 5101/5103 | WFCY Sound and Box Platforms Allowance | 6,686,211 | 7,842,037 |
| DCMP | 5101/5103 | Pedestrian Bridges Allowance | 12,239,488 | 14,355,294 |
| DCMP | 5101/5103 | Site Development Allowance | 61,718,153 | 70,200,426 |
| DCMP | 5101/5103 | Installation of Public Art Allowance | 633,862 | 743,436 |
| DCMP | 5101/5103 | Communications and Security Allowance | 24,300,826 | 28,501,641 |
| DCMP | 5101/5103 | Fire Suppression Allowance | 2,667,214 | 3,128,288 |
| DCMP | 5101/5103 | Elevators and Escalators Allowance | 38,732,282 | 45,427,822 |
| DCMP | 5101/5103 | Spare Parts Allowance | 5,515,011 | 6,468,375 |
| DCMP | 5101/5103 | WFCY S&I Building Allowance | 27,613,591 | 32,387,074 |
| DCMP | 5101/5103 | Traction Power Supply Allowance | 45,594,511 | 53,393,254 |
| DCMP | 5101/5103 | ATC Supply Allowance | 26,918,598 | 31,571,940 |
| DCMP | 5101/5103 | Corrosion & Stray Currents Allowance | 1,579,685 | 1,852,761 |
| DCMP | 5101/5103 | Contact Rail Allowance | 8,431,848 | 9,889,438 |
| DCMP | 5101/5103 | Wiehle Parking Garage Allowance (By others) | 29,091,684 | 34,120,681 |
| DCMP | 5101/5103 | Commodity Index Payments | 77,469,926 | 86,241,691 |
| DCMP | 5101/5103 | Contingency | 220,235,332 | |
| | | Adjustment due to Additional Funding | | 95,036,208 |
| SUBTOTAL - DESIGN-BUILD | | | 1,932,739,867 | 2,027,776,076 |
| UTILITY RELOCATION | | | | |
| DCMP | 5101/5103 | DTP (Lane) | 83,310,836 | 98,449,857 |
| DCMP | 5101/5103 | Design | 2,394,135 | 2,775,026 |
| DCMP | 5101/5103 | PM/CM | 8,347,544 | 9,498,307 |
| DCMP | 5101/5103 | Legal Permit Fee | 834,796 | 923,095 |
| DCMP | 5101/5103 | TERF | 6,502,667 | 7,137,990 |
| DCMP | 5101/5103 | Washington Gas Light - Force Account | 4,231,456 | 4,644,877 |
| DCMP | 5101/5103 | Dominion Power - Force Account | 7,410,599 | 8,134,628 |
| DCMP | 5101/5103 | Verizon - Force Account | 3,418,254 | 3,752,224 |
| DCMP | 5101/5103 | ATT Local - Force Account | 1,935,438 | 2,124,534 |
| DCMP | 5101/5103 | ATTLD - Force Account | 216,276 | 237,407 |
| DCMP | 5101/5103 | Verizon Business (MCI) - Force Account | 1,761,409 | 1,933,502 |
| DCMP | 5101/5103 | FiberLight - Force Account | 75,234 | 82,585 |
| DCMP | 5101/5103 | Qwest Government - Force Account | 1,708,886 | 1,875,847 |
| DCMP | 5101/5103 | Qwest Commercial - Force Account | 993,153 | 1,090,186 |
| DCMP | 5101/5103 | Above Net - Force Account | 1,467,478 | 1,610,853 |
| DCMP | 5101/5103 | Level 3 Com - Force Account | 995,253 | 1,092,491 |
| DCMP | 5101/5103 | XO Communication - Force Account | 250,922 | 275,438 |
| DCMP | 5101/5103 | Cox - Force Account | 752,115 | 825,598 |
| DCMP | 5101/5103 | Comcast - Force Account | 178,697 | 196,156 |
| DCMP | 5101/5103 | Fibergate - Force Account | 31,512 | 34,591 |
| DCMP | 5101/5103 | Time-Warner - Force Account | 199,576 | 219,075 |
| DCMP | 5101/5103 | FastToll (Qwest Business) - Force Account | 220,584 | 242,135 |
| DCMP | 5101/5103 | VDOT - Force Account | 178,568 | 196,014 |
| DCMP | 5101/5103 | ITS Fiber - Force Account | 26,260 | 28,826 |
| DCMP | 5101/5103 | UTILITY COMPANIES DESIGN | 1,574,500 | 1,728,332 |
| DCMP | 5101/5103 | Contingency | 20,093,426 | |
| | | Adjustment due to Additional Funding | | 39,130,452 |
| SUBTOTAL - UTILITY RELOCATION | | | 149,109,574 | 188,240,026 |

ROW



| Airport | Project No | Description | Original Budget Amount | Budget Authorization |
|--------------------------------|-------------------|---|-----------------------------------|---------------------------------|
| DCMP | 5101/5103 | Support Services | 8,171,000 | 8,625,590 |
| DCMP | 5101/5103 | Land & Relocation | 79,044,794 | 87,639,548 |
| DCMP | 5101/5103 | Contingency | 9,049,345 | |
| | | Adjustment due to Additional Funding | | (9,496,008) |
| | | SUBTOTAL - ROW | 96,265,139 | 86,769,130 |
| WMATA | | | | |
| DCMP | 5101 | Vehicles | 195,138,328 | 222,863,121 |
| DCMP | 5101 | Construction and Procurement | 31,484,799 | 35,958,085 |
| DCMP | 5101 | WMATA Force Account Startup | 13,777,100 | 15,734,518 |
| DCMP | 5101 | Project Management and Final Design | 31,235,400 | 35,673,251 |
| DCMP | 5101/5103 | Contingency | 38,593,348 | |
| | | Adjustment due to Additional Funding | | (31,743,347) |
| | | SUBTOTAL - WMATA | 310,228,975 | 278,485,628 |
| PRELIMINARY ENGINEERING | | | | |
| DCMP | | PRELIMINARY ENGINEERING | 100,968,646 | 100,968,646 |
| | | Adjustment due to Additional Funding | | (237,647) |
| | | SUBTOTAL - PRELIMINARY ENGINEERING | 100,968,646 | 100,730,999 |
| PROJECT MANAGEMENT | | | | |
| DCMP | 5101/5103 | MWAA | 23,225,715 | 27,133,777 |
| DCMP | 5101/5103 | PMSS | 88,565,041 | 103,771,334 |
| DCMP | 5101/5103 | VDOT | 1,439,608 | 1,686,783 |
| DCMP | 5101/5103 | OTHERS | 28,879,153 | 33,791,186 |
| DCMP | 5101/5103 | Contingency | 24,273,563 | |
| | | Adjustment due to Additional Funding | | 57,310,061 |
| | | SUBTOTAL - PROJECT MANAGEMENT | 166,383,080 | 223,693,141 |
| TOTAL FOR DCMP | | | 2,755,695,281 | 2,905,695,000 |



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DULLES CORRIDOR METRORAIL PROJECT - PHASE 2
MONTHLY COST SUMMARY
As of October 31, 2014

| Description | Budget Amount ¹ | Total Forecast ² | Expenditures to Date | | Contract NTP | Contract Substantial |
|--|-------------------------------|--------------------------------|----------------------|-------------------------|-----------------|-------------------------|
| | | | Amount | Total Percent c/b | | |
| | | b | c | | | |
| DULLES CORRIDOR METRORAIL PROJECT - PHASE 2 | | | | | | |
| DESIGN-BUILD Package A | 1,193,777,000 | 1,212,951,253 | 133,707,111 | 11% | 8-Jul-13 | 7-Jul-18 |
| DESIGN-BUILD Package B + S | 273,280,530 | 262,939,297 | 6,342,442 | 2% | 18-Nov-13 | 29-Jun-18 |
| ROW | 58,600,000 | 58,600,000 | 2,997,754 | 5% | 8-Jul-13 | 30-Sep-17 |
| WMATA | 305,324,718 | 305,324,718 | 45,085,228 | 15% | N/A | 2-Jan-19 |
| PRELIMINARY ENGINEERING | 75,000,000 | 75,000,000 | 71,107,066 | 95% | 15-Jul-09 | 30-Dec-13 |
| PROJECT MANAGEMENT | 320,802,137 | 322,649,514 | 58,533,841 | 18% | N/A | 2-Jan-19 |
| CONTINGENCY | 551,451,179 | 540,770,782 | | | | |
| TOTAL FOR DCMP | 2,778,235,564 | 2,778,235,564 | 317,773,441 | | | |

Notes:

- 1 Budget Amount includes contingency as separate line item and does not include finance costs.
- 2 Total Forecast includes funded changes. It does not include finance costs.
- 3 Budget Amount includes commodity escalation of \$20 million for Package A & B+S.



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DULLES CORRIDOR METRORAIL PROJECT - PHASE 2
CONTINGENCY UTILIZATION
As of October 31, 2014

| Description | Amount in million (\$) |
|--|------------------------------|
| DULLES CORRIDOR METRORAIL PROJECT - PHASE 2 | |
| Total Contingency | \$ 551.5 |
| Contingency Utilized through September 2014 | \$ 6.2 |
| Expended Contingency in October 2014* | \$ 4.5 |
| Total Contingency Utilized through October 2014 | \$ 10.7 |
| Remaining Contingency | \$ 540.8 |

*See table below for details

| | |
|--|---------------|
| CRC Acceleration Team - Staff Cost Proposal | \$ 0.3 |
| Dulles Station HVAC Changes | \$ 0.2 |
| Dulles Station Foundation Wall Design | \$ 0.3 |
| Superelevation Speed and Track Gauge | \$ 0.2 |
| WMATA Requested Mechanical Changes in Stations | \$ 0.1 |
| SWM Design Criteria Change to VSMP Part II-B - Construction Cost | \$ 3.0 |
| Interlocking Track Circuit Reliability | \$ 0.1 |
| Miscellaneous (Items less than 0.1 million) | \$ 0.3 |
| TOTAL | \$ 4.5 |



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| Airport | Project No | Description | Budget Amount |
|--|-------------------|-----------------------------------|--------------------------|
| DULLES CORRIDOR METRORAIL PROJECT - PHASE 2 | | | |
| DESIGN-BUILD Package A | | | |
| DCMP | 5401 | Package A - Mainline (CRC) | 1,177,777,000 |
| DCMP | 5406 | Commodity Escalation | 16,000,000 |
| DCMP | 5408 | Contingency amount | |
| DCMP | 5408 | Secondary mitigation amount | |
| SUBTOTAL - DESIGN-BUILD Package A | | | 1,193,777,000 |
| DESIGN-BUILD Package B+S | | | |
| DCMP | 5402 | Package B - Yard | 269,280,530 |
| DCMP | 5402 | Package S - Yard Site Preparation | incl above |
| DCMP | 5406 | Commodity Escalation | 4,000,000 |
| DCMP | 5408 | Contingency amount | |
| DCMP | 5408 | Secondary mitigation amount | |
| SUBTOTAL - DESIGN-BUILD Package B+S | | | 273,280,530 |
| ROW | | | |
| DCMP | 5404 | Land & Relocation | 47,225,000 |
| DCMP | 5404 | Support Services | 11,375,000 |
| DCMP | 5408 | Contingency | |
| SUBTOTAL - ROW | | | 58,600,000 |
| WMATA | | | |
| DCMP | 5405 | WMATA Vehicles | 205,868,200 |
| DCMP | 5405 | WMATA other costs | 90,205,767 |
| DCMP | 5405 | WMATA Non Revenue Vehicles | 9,250,751 |
| DCMP | 5408 | Contingency | |
| SUBTOTAL - WMATA | | | 305,324,718 |
| PRELIMINARY ENGINEERING | | | |
| DCMP | 5406 | PRELIMINARY ENGINEERING | 75,000,000 |
| SUBTOTAL - PRELIMINARY ENGINEERING | | | 75,000,000 |
| PROJECT MANAGEMENT | | | |
| DCMP | 5406 | MWAA Staff | 34,000,000 |
| DCMP | 5406 | MWAA Allocated Cost | 13,560,000 |
| DCMP | 5406 | Rent | 9,200,000 |
| DCMP | 5406 | Relocation, IT, Furniture | 2,700,000 |
| DCMP | 5406 | MWAA ODCs | 17,060,000 |
| DCMP | 5406 | Insurance (OCIP) | 49,082,137 |
| DCMP | 5406 | PMSS | 140,000,000 |
| DCMP | 5406 | VDOT | 10,000,000 |
| DCMP | 5406 | DRC Prof Svcs | 2,500,000 |


 METROPOLITAN WASHINGTON
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| Airport | Project No | Description | Budget Amount |
|--------------------------------------|-------------------|---|----------------------|
| DCMP | 5406 | CTI (Special Inspections) | 14,000,000 |
| DCMP | 5406 | DGS | 2,000,000 |
| DCMP | 5406 | TRIP II | 2,000,000 |
| DCMP | 5406 | Dept of Conservation & Recreation (DCR) | 2,000,000 |
| DCMP | 5406 | MWAA Permits/Inspection | 4,000,000 |
| DCMP | 5406 | Power for System Testing | 16,000,000 |
| DCMP | 5406 | Historical/Archaeologic | 2,700,000 |
| DCMP | 5408 | Contingency | |
| SUBTOTAL - PROJECT MANAGEMENT | | | 320,802,137 |
| CONTINGENCY | | | |
| DCMP | 5408 | Contingency - Package A | 289,067,231 |
| DCMP | 5408 | Secondary mitigation amount - Package A | 0 |
| DCMP | 5408 | Contingency - Package B | 109,006,387 |
| DCMP | 5408 | Secondary mitigation amount - Package B | 0 |
| DCMP | 5408 | Contingency - ROW | 5,860,000 |
| DCMP | 5408 | Contingency - WMATA | 30,532,472 |
| DCMP | 5408 | Contingency Project Management | 116,985,089 |
| SUBTOTAL - CONTINGENCY | | | 551,451,179 |
| TOTAL FOR DCMP - PHASE 2 | | | 2,778,235,564 |