

REPORT TO THE STRATEGIC DEVELOPMENT COMMITTEE

**Aviation Capital Construction Program Update
2014 Active Construction Projects
Construction Projects Completed Since Last Update**

May 2014

Discussion Agenda

- Program Safety Performance
- 2014 Construction Projects Update

DCA

IAD

Capital Construction Program Safety Performance

2014 TO DATE*

Labor Hours Worked	=	197,664
Recordable Incident Rate (RIR)	=	2.02
National Avg. RIR for Industry	=	3.5
Lost Time Incident Rate (LTIR)	=	0.0
National Average LTIR	=	2.0

* Estimated through March 2014

DCA

Active Major Construction Projects

Terminal A Rehabilitation Security Screening Checkpoint Expansion

- Scope consists of constructing a new building addition to the Terminal A gate corridor to accommodate a new, larger TSA passenger security screening checkpoint.
- Contract includes additional concession space and improved egress for arriving passengers.
- Contractor completed the main level security checkpoints and Beneficial Occupancy on February 28, 2014 and the facility opened on March 1, 2014.
- Final exterior apron paving and punch list work to be completed this month.

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Runways 4-22 and 15-33 Runway Safety Area Improvements Earthwork Package

- Project scope is the construction of an earthwork embankment in the Potomac River to support the construction of runway safety areas for Runway 15-33.
- The contractor continues placing sand and rock for the dike and fill to the 5 feet elevation above the Potomac River.
- Completion is forecast for December 2014.

Runways 4-22 and 15-33 Runway Safety Area Enhancements General Package

- Project scope is the construction of Runway Safety Areas for Runways 15-33 and 4-22 to ensure compliance with FAA standards.
- Project includes three Engineered Material Arresting Systems (EMAS), runway and taxiway modifications, NAVAIDS, and airfield signage systems.
- The contractor continues with excavation, grading, and utility construction. Runway 22 EMAS installation is scheduled to begin in August 2014.
- Completion is forecast for December 2015.



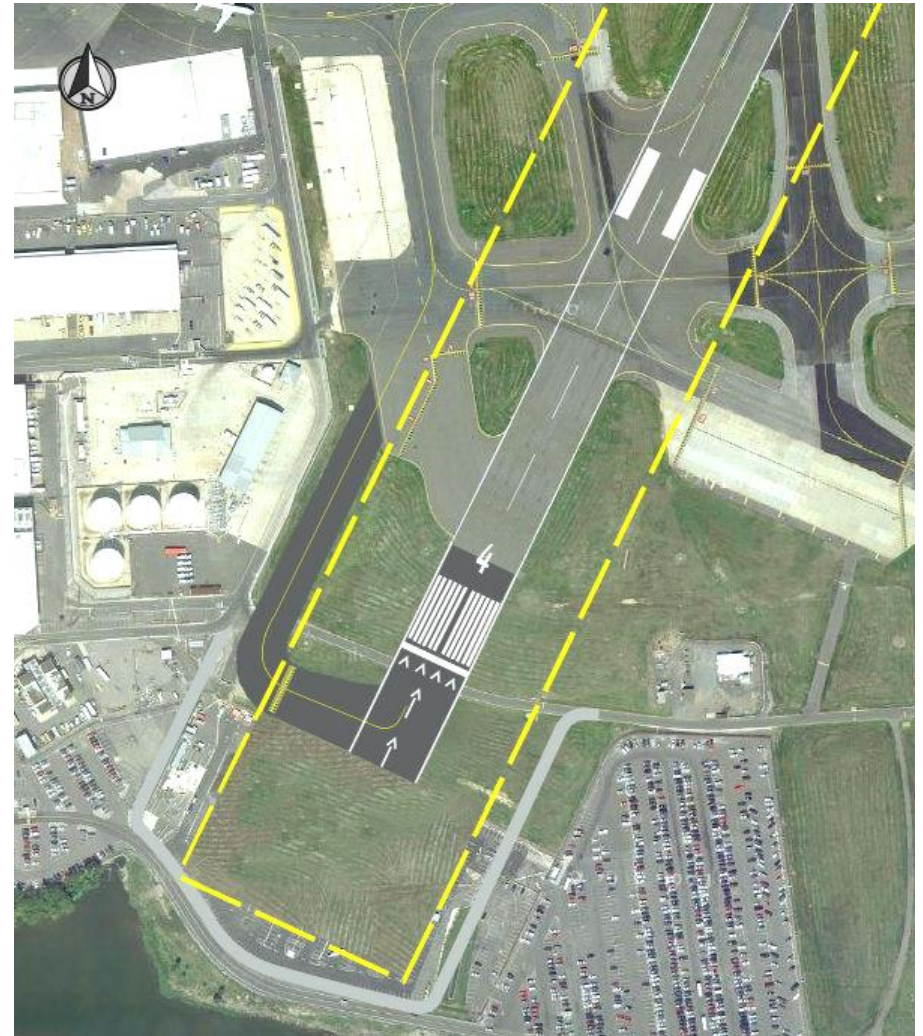
Runway 15-33 Runway Safety Area Enhancements





Runway 4-22

Runway Safety Area Enhancements



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North Substation Gear Replacement

- Project scope replaces the 480V medium and 34.5kV high voltage switchgear in the DCA North Substation.
- The contractor replaced Phases 1 & 2 480V switchgear and has begun replacing the high voltage switchgear.
- Completion is forecast for June 2014.

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Combined Electrical System Upgrades

- Project scope consists of four separate electrical system projects; Corporate Office Building 100 percent Backup Electrical Power, Terminal A Banjo Standby Generator, South Hangar Line Standby Power Upgrade, and Replacement of several outdated Electrical Transformers.
- The contractor completed equipment & transformer preparatory work to complete the South Hangar Line upgrades and is beginning ductwork for the COB Backup Electrical Power.
- Completion is forecast for September 2014.



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Construction Projects Completed Since Last Update

Terminal A Rehabilitation Outbound Baggage Facility

- Scope consisted of designing and erecting a pre-engineered building and installing new baggage conveyors and devices to support outbound baggage requirements at Terminal A.
- The Outbound Baggage Building and Baggage handling system installation are complete.
- System completed and operational November 18, 2013.

Terminal A Rehabilitation Curbside Check-in System

- Scope consisted of installing a new curbside baggage conveyance system which integrates into the TSA screening area behind the existing ticket counters at Terminal A. TSA inspected checked bags are then inserted into new Outbound Baggage System.
- System completed and operational November 18, 2013.

Terminal A Rehabilitation Lobby Upgrades / Finishes

- Scope included upgrading the main lobby wall and replacing the lobby floor, lighting improvements, new north glass window walls and new ticket counters.
- Construction included skylight modifications and installation of new lobby wall coverings.
- Construction completion was October 17, 2013.
- Old outbound baggage ticket counter area to be completed in 2014.

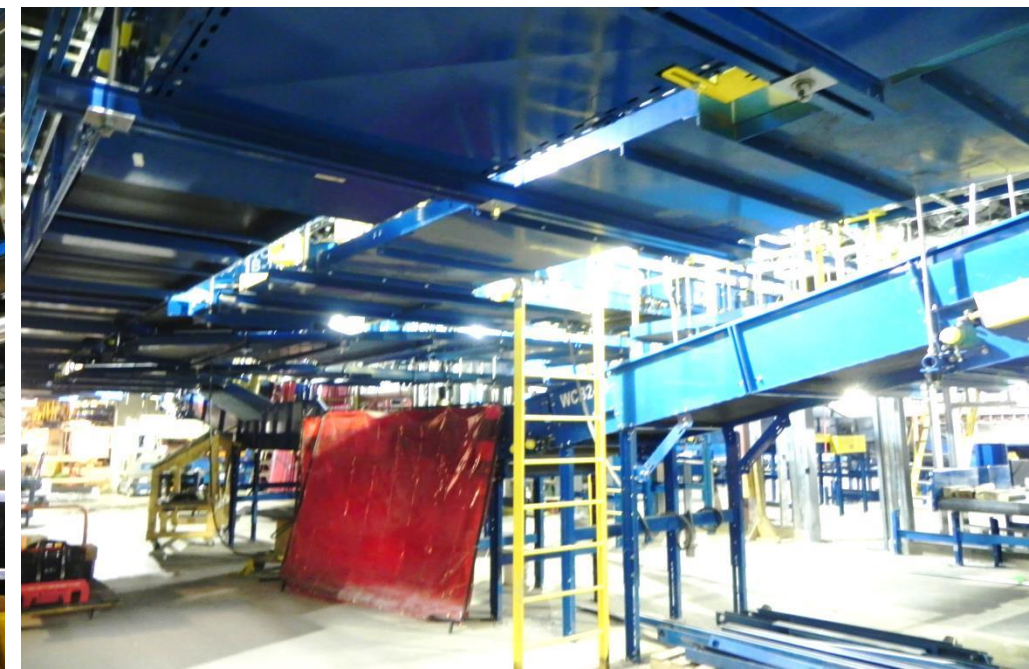
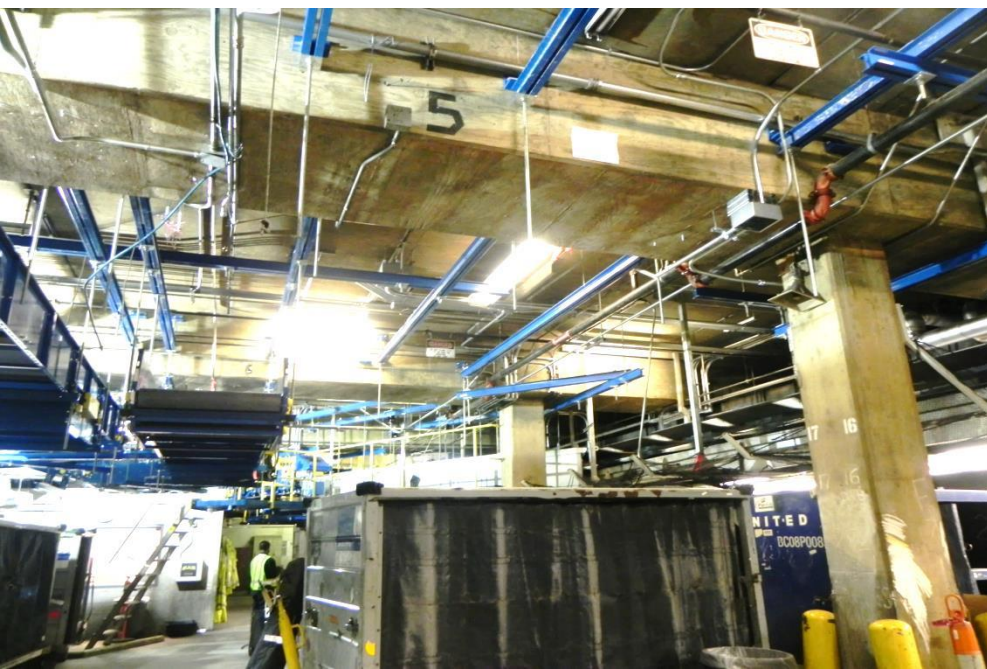
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Active Major Construction Projects

EDS In-line Baggage Screening East & West Bag Basements

- Scope includes implementation of a baggage handling and TSA checked baggage inspection systems in the existing Main Terminal East and West baggage basements to provide security screening enhancement of checked bags.
- East Bag Basement concrete construction is complete and waterproofing underway. Staff is coordinating deliveries of UPS and EDS machines with TSA.
- West Bag Basement Baggage Handling System work is underway. Electrical and air handling utility work continues.
- Completion is forecast for September 2015.

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Cargo Buildings 1-4 Exterior Rehabilitation

- Scope includes the landside exterior rehabilitation of Cargo Buildings 1, 2, 3, and 4 including canopy roof, fascia, signage, new roofing system, roof plumbing & drains, and lightning protection.
- Contractor continues with roof membrane installation, fascia, and canopy work.
- Completion is forecast for September 2014.

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High Temperature Hot Water Generator Replacement

- Project scope replaces three High Temperature Hot Water (HTHW) Generators with two new high efficiency Generators.
- The contractor has installed the newly delivered generators and continues with the installation of HTHW piping, electrical and control systems.
- The project is nearly complete. Start-up and testing of the new generators was completed in March. Final generator emission testing was completed in mid-April.
- Completion is forecast for this month.

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Airfield Pavement Panel Replacement Taxiway Y Reconstruction at Taxiway B

- Airfield Pavement Panel Replacement is the on-going program to maintain overall airfield pavement.
- This project scope consists of replacing deteriorated pavement on Taxiway Y at Taxiway B, to include modifications to utilities, and lighting / signage infrastructure.
- Contractor re-mobilized from winter shutdown on March 31 to complete Phases 3 & 4 (Taxiway B and A portions).
- Contract's Substantial Completion is August 2014.

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Concourse C/D Roof Replacement

- Project scope rehabilitates the nearly 1 mile long Concourse C/D roof, replacing the existing membrane, flashings, insulation, and select gutters.
- The contractor has been re-mobilizing from winter shutdown to complete the remaining work.
- Completion is forecast for June 2014.

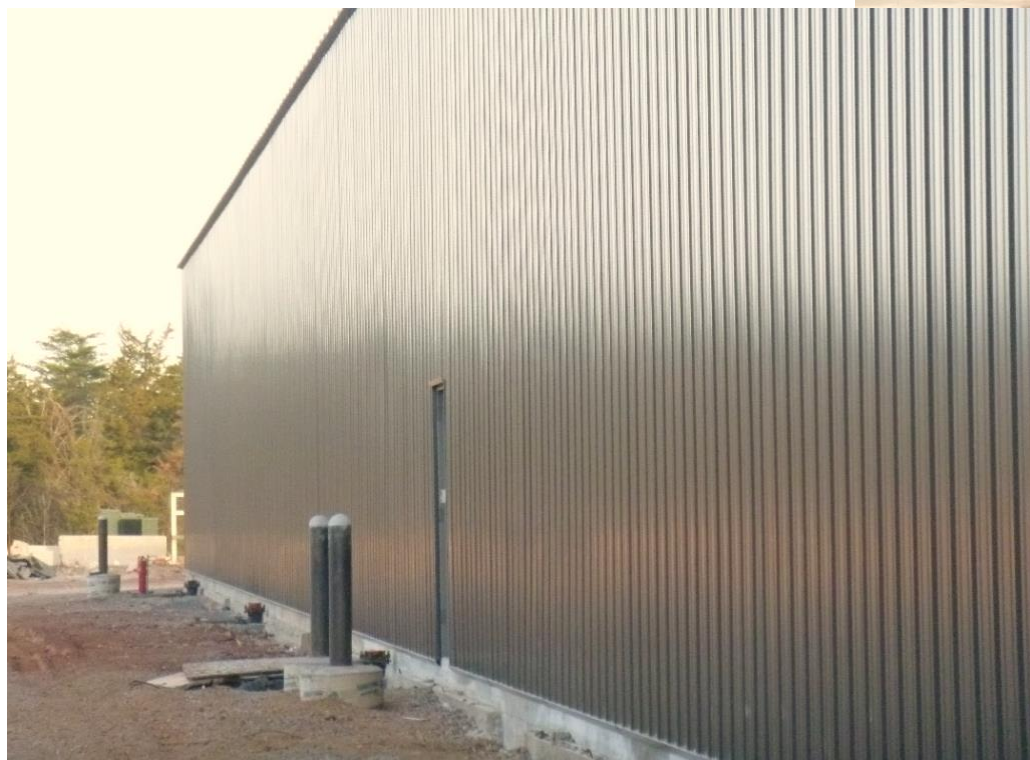
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Snow Equipment Storage Facility

- Project scope is the construction of a new 86,000 SF pre-engineered snow equipment storage facility and associated paving.
- The contractor continues with structural steel erection and roof installation.
- Completion is forecast for this month.

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Historic Air Traffic Control Tower (ATCT) Exterior Preservation

Historic ATCT Exterior Preservation

- Project scope rehabilitates and preserves the exterior of the historic air traffic control tower. Work includes rehabilitating the metal cladding and standing-seam roof, new window gaskets, relocating communication and security equipment, concrete cleaning and restoration.
- The contractor continues with lead paint abatement, metal panel rehabilitation, window gasket replacement, and roof work.
- Completion is forecast for August 2014.

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Passenger Boarding Bridges (PBBs) Gates B42/44 Gate Modifications for the Airbus A380

- Project scope provides for two PBBs, two fixed walkway sections, Aircraft Ground Power Units, and Aircraft Preconditioned Air Units to service gates B42 and B44 for the Airbus A380.
- The contract is awarded PBB manufacturing began early May. Delivery of the PBBs scheduled for early June.
- Completion is forecast for July 2014.

Gate B42 and B44 Modifications for the Airbus A380

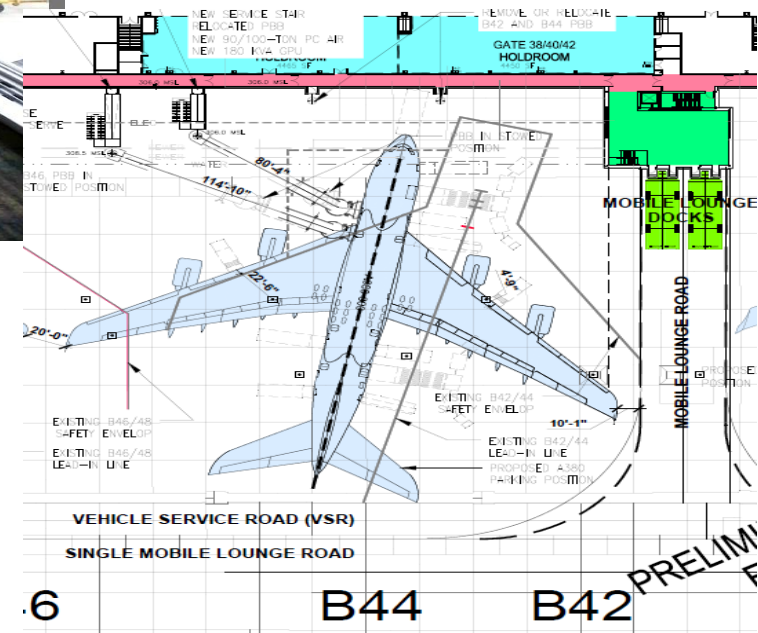
- Project modifies Gates B42 and B44 to support Airbus A380 service. Work includes removal of existing PBBs, installation of the new PBBs, and facility improvements.
- The contractor has mobilized and is beginning initial utility work. Foundation work schedule to complete June 1.
- Completion is forecast for July 31, 2014.



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Construction Projects Completed Since Last Update

Main Terminal Commissioning Phase 2 IAB Mechanical Systems Renovation

- Scope consists of replacement and refurbishment of the original Heating, Ventilation and Air Conditioning (HVAC) systems of the original International Arrivals Building.
- Project Completed January 24, 2014.

Taxilane Z1 Widening and Utilities for UAL Maintenance Hangar

- Work for this project is being performed in coordination with United Airlines' construction of maintenance hangar at Dulles International.
- The project scope consists of widening Taxilane Z1 to Group V Aircraft standards and extending utilities to the United Hangar site.
- The contractor has completed all work, with the exception of final grading and seeding scheduled for the Spring 2014.
- Authority construction was completed on September 20, 2013.
- UAL Hangar was commissioned on November 21, 2013.



Ronald Reagan Washington National
Airport



Dulles Corridor Metrorail Project



Dulles Toll Road



Washington Dulles International Airport



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