



**Safety and Operations Committee**

**Board Information Item IV-A**

**Silver Line Phase 2 Update**

Washington Metropolitan Area Transit Authority

## Board Action/Information Summary

☐ Action ☒ Information

MEAD Number:  
202376

Resolution:  
☐ Yes ☒ No

### TITLE:

Silver Line Phase 2 Update

### PRESENTATION SUMMARY:

Staff will present the Board with the status of the Silver Line Phase 2 project including activities leading to safety certification, project acceptance and start of passenger service.

### PURPOSE:

To provide the Safety and Operations Committee with an update on progress on Silver Line Phase 2 as the project advances towards completion of activities required to request safety certification from the Washington Metrorail Safety Commission (WMSC), project acceptance, and start of passenger service.

### DESCRIPTION:

**Capital Rail Constructors**, a joint venture of **Clark Construction Group LLC** and **Kiewit Infrastructure South Co.**, is the design-build contractor for Package A of the Silver Line Phase 2 (mainline and stations), and **Hensel Phelps Construction Company** is the design-build contractor for Package B (Dulles Rail Yard). Major subcontractors and consultants under these entities include **Mass. Electric Construction Company**, **Parsons Corporation**, **Dewberry**, **Systra**, and **M.C. Dean**.

Major consultants and contractors supporting Metro's efforts on the project include **Mott MacDonald**, **Gannett Fleming**, **HNTB**, and **Cubic Transportation Systems**.

### Key Highlights:

- As part of Metro's ongoing review of the Silver Line Phase 2 project, several quality issues were identified in earlier briefings to the Board. Several of these issues have been resolved and the remaining ones are currently being remediated. Metro has also executed a trust agreement to cover Metro's future maintenance/remediation costs that may be required on these issues.

- On November 4, 2021, MWAA announced that Substantial Completion had been achieved on Package A (Mainline and Stations) effective October 25, 2021. On December 1, 2021, MWAA announced that Substantial Completion on Package B (Yard) had been achieved effective October 29, 2021. Substantial Completion is a contractual milestone between MWAA and its contractors; Metro is not involved in this determination. As noted in earlier briefings, satisfactory resolution of all pending quality issues must occur prior to Substantial Completion, Operational Readiness, or at the very latest prior to acceptance/start of revenue service.
- On June 23, 2022, Metro declared Operational Readiness and took provisional care, custody and control of the project including the Dulles Yard. Metro is now proceeding with various inspections, testing and verification, and documentation activities to be ready to request final certification from the WMSC. Upon receiving this certification, Metro can accept the project into the Adopted Regional System (ARS) and then establish a date for start of passenger service.
- As the intended future owner and operator, Metro determines when all the conditions necessary for Metro acceptance have been satisfied for acceptance of the project into the Adopted Regional System (ARS) and start of passenger service.

### **Background and History:**

Silver Line Phase 2 will extend the Metrorail system into Loudoun County, Virginia, and provide 11.4 miles of new track from the current terminus at Wiehle-Reston East Station, through Washington Dulles International Airport, to a terminus in Loudoun County. It includes six new Metrorail stations (Reston Town Center, Herndon, Innovation Center, Washington Dulles International Airport, Loudoun Gateway, and Ashburn), and a new Service & Inspection yard at Dulles.

Metro's role and responsibilities for the design-build phase of the Silver Line Phase 2 project are defined in the Cooperative Agreement executed between MWAA and Metro on August 7, 2013.

The Board of Directors amended the ARS to incorporate the Dulles Metrorail Extension (Silver Line) subject to the fulfillment of certain "ARS Contingencies" adopted in Resolution 2012-24. Additional conditions precedent for acceptance are established in Article 6 of the Cooperative Agreement.

### **Discussion:**

Construction of the Silver Line Phase 2 is almost complete. Facility construction is complete, and systems installations and testing are well advanced.

Between ORD and acceptance, Metro has provisional care, custody, and control of the project, and performs activities in preparation for revenue service. These activities include verification that conditions precedent for acceptance have been met; simulated service; emergency drills; safety certification; mobilization of stations and yard; rekeying all facilities; providing escorts to support contractor punch list completion; control right-of-way operations; and performance of preventative maintenance inspections. Now that ORD was declared on June 23, 2022, all the aforementioned activities are in various stages of execution and completion.

Metro's acceptance determination is supported by the completion of certain ARS Acceptance Tasks, verification that all conditions precedent for acceptance have been met, and Metro's determination that Phase 2 is eligible and ready for Metro Acceptance.

The conditions precedent for Metro Acceptance of Phase 2 into the ARS as established in the Cooperative Agreement are summarized as follows:

- Condition 1. Punch List – all punch list work completed to Metro's satisfaction. If not completed, Metro has the right to complete punch list items at MWAA's expense.
- Condition 2. Property Transfers – MWAA shall have transferred to Metro the appropriate property interests as indicated in the approved Right-of-Ways plans.
- Condition 3. Spare Parts and Training – Metro shall have received all spare parts, O&M manuals, and necessary training.
- Condition 4. Record Deliverables – record deliverables have been received by Metro.
- Condition 5. Assignment of Warranties – all warranties have been assigned to Metro, and all documentation necessary to enforce the warranties has been provided to Metro.
- Condition 6. Permits – MWAA shall have obtained for Metro all land use and permitting approvals necessary for Metro's operations.
- Condition 7. Payments – MWAA shall have paid Metro all funds due and owing.
- Condition 8. Safety and Security – project has achieved certification by the Metro Chief Safety Officer.

- Condition 9. Insurance – Metro shall have received all certificates of insurance.
- Condition 10. Storm Water Management – MWAA shall have obtained maintenance agreements as required.

Hiring of staff has been completed and training is underway and proceeding on schedule. Updates on the status of the project and key activities leading up to Metro declaring Operational Readiness and future actions for Metro acceptance and start of passenger services are detailed in the attached presentation.

#### **FUNDING IMPACT:**

There is no direct funding impact for presenting this update.	
Project Manager:	Neil Nott
Project Department/Office:	Capital Delivery/Project Implementation and Planning (CAPD/PICO)

#### **TIMELINE:**

<b>Previous Actions</b>	August 2013 – Metro and the Airports Authority executed the negotiated Cooperative Agreement that provides for Metro support throughout the design-build phase of the Silver Line Phase 2 project.
<b>Anticipated actions after presentation</b>	Board approval of Service Plan and Title VI Equity Analysis and Acceptance of Silver Line Phase 2

# Silver Line Phase 2 Update

Safety & Operations Committee  
September 8, 2022





# Purpose

- Critical Path for Operational Preparedness
- Safety Certification
- Next Steps



# Progress on Rail Activation Plan Items

- Tower control at Dulles Yard
- MWAA Punch List Progress
  - Mainline (package A) 96% complete
  - Yard (package B) 83% complete
- Property Transfer/Easements progressing towards resolution
- Post-ORD testing scheduled and being executed






# Critical Path items

- Complete Union Pick by Sept 11
- Completed majority of training including Interlockers, Automatic Train Control, Track and Structures, and Traction Power
  - Onsite training September 11
  - Simulated service October 3-17
- Submit Safety Certification to WMSC by mid-October
- Meet 10 Conditions for WMATA Acceptance



# Condition of Acceptance per Cooperative Agreement

- Punch List – all punch list work completed 
- Property Transfers – Metro has received from Airports Authority appropriate property interests 
- Spare Parts and Training – Metro has received from Airports Authority all spare parts, O&M manuals, training 
- Record Deliverables – Metro has received from Airports Authority all Record Deliverables 
- Assignment of Warranties – Metro shall have received from Airports Authority assignment of all warranties 
- Permits – Metro has received from Airports Authority all land use and permitting approvals required 
- Payments – Airports Authority has paid Metro all sums due and owing under cooperative agreement 
- Safety and Security – Metro CSO ready to certify that project is ready for revenue service 
- Insurance – Metro shall have received the certificates of insurance 
- Storm Water Management – Airports Authority has obtained required maintenance agreements 

## Progress towards Safety Certification



# Safety & Security Certification (SSC) Updates

## Tasks Completed

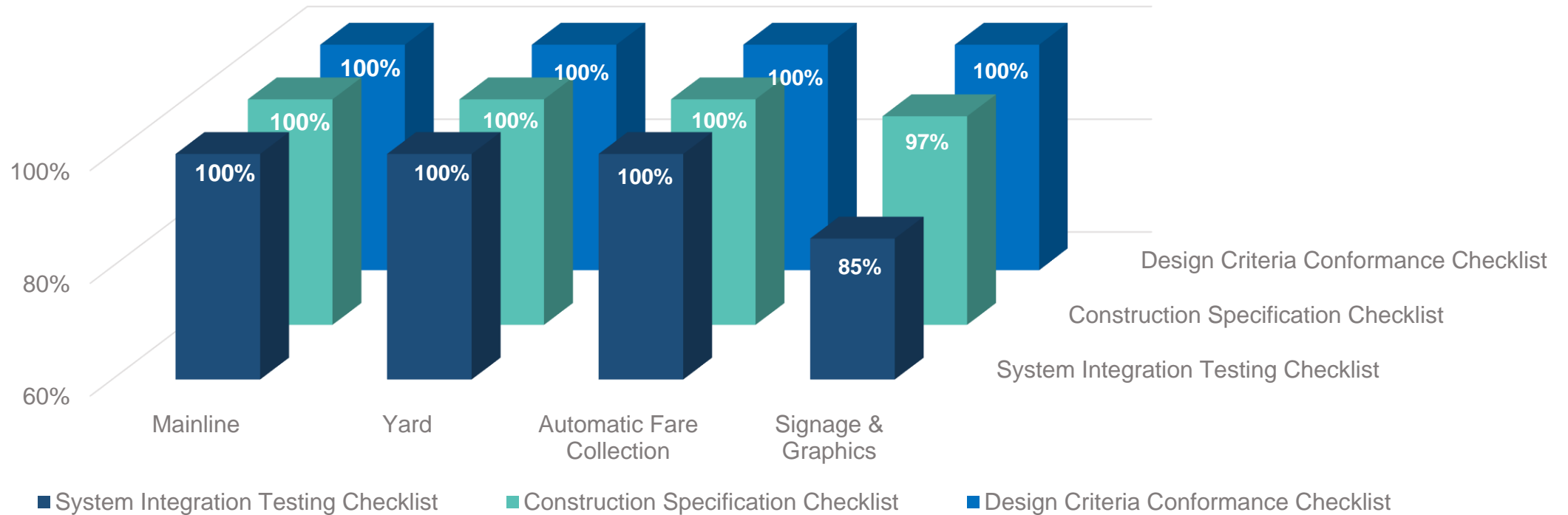
- WMATA's concurrence with MWAA's SSC of Packages A and B (Mainline, stations and Dulles Yard)
- WMSC continues to walk through the system and participates in internal Rail Activation meetings
- Certification of Automatic Fare Collection Machines

## Tasks Underway

- Certification of Arts-in-Transit
  - 3 of 6 installations complete
- Certification of Signage and Graphics
- Certification of Pre-Revenue Activities
- MWAA's submission of final SSC documentation for Package K (MWAA work beyond Packages A & B)

# Safety & Security Certification(SSC)

## Completion of Certified Items Lists





# Workshop and Full-Scale Exercises



## Maintenance Workshop Exercise

- WMATA Internal Response
- Plant/Car Maintenance/Track and Structures
- Snow Removal
- Date: March 7



## Dulles Airport Station Exercise

- Law Enforcement Response
- Active Assailant
- Date: July 27



## Ashburn Station Full-Scale Exercise

- Fire Department Response
- Evacuation
- Roadway Access
- Date: August 17



## Dulles Rail Yard Full-Scale Exercise

- Fire Department and Law Enforcement Response
- Incident Command
- Roadway Access
- Date: August 31

# Next Steps

- MWAA close open items
- Testing and simulation
- Submission to WMSC
- Board sets service date

