

**REPORT TO THE  
DULLES CORRIDOR COMMITTEE**

**RECOMMENDATION TO AWARD A SOLE SOURCE  
CONTRACT FOR AUTOMATIC TRAIN CONTROL (ATC)  
TECHNOLOGY UPGRADE FOR THE DULLES CORRIDOR  
METRORAIL PROJECT – PHASE 1**

**APRIL 2014**

## **PURPOSE**

Staff requests the Dulles Corridor Committee approve and recommend to the Board of Directors that it approve the award of a Sole Source Contract to Alstom Signaling, Inc., of Henrietta, New York for an Automatic Train Control (ATC) Technology Upgrade for the Dulles Corridor Metrorail Project – Phase 1.



## **BACKGROUND**

# **ATC Technology Upgrade**

- Alstom installed Horton Remote Terminal Units (RTUs) as part of the design of the Automatic Train Control System.
- The Horton RTUs are used throughout WMATA's existing Metrorail system.
- The Horton RTUs have proven unreliable in the Phase 1 application. Increased reliability can be achieved by incorporating the use of integral circuit boards in the Alstom Vital Processor Interlock (VPI) instead of using RTU equipment.

# BACKGROUND

## ATC Technology Upgrade

- This is a reliability issue - not a safety issue.
- The technology upgrade will take one year to complete.
  - In the interim, DTP has been advised to make adjustments to improve reliability. These improvements have demonstrated progress in the system reliability.
  - Once revenue service begins, WMATA will provide extra staffing at the Project's expense to ensure reliability.

## **RATIONALE FOR SOLE SOURCE PROCUREMENT ATC Technology Upgrade**

- The proposed VPI circuit boards and software are a proprietary design that will be integrated into installed hardware on Phase 1.
- Alstom is the only contractor able to develop the unique technology for its ATC system to ensure operational safety and reliability of the upgrade.
- The estimated cost for the ATC technology upgrade is \$1,800,000.

# RECOMMENDATION

The Dulles Corridor Committee approve and recommend to the Board of Directors that it approve the award of a Sole Source Contract to Alstom Signaling, Inc., of Henrietta, New York, for an Automatic Train Control (ATC) technology upgrade to the Dulles Corridor Metrorail Project – Phase 1.



**Ronald Reagan Washington National Airport**



**Dulles Corridor Metrorail Project**



**Dulles Toll Road**



**Washington Dulles International Airport**



**METROPOLITAN WASHINGTON  
AIRPORTS AUTHORITY**

## Proposed Resolution

### Recommending Award of Sole Source Contract for an Upgrade in Automatic Train Control Technology on Phase 1 of the Dulles Corridor Metrorail Project

WHEREAS, Alstom Signaling, Inc. (Alstom), has installed Horton Remote Terminal Units (RTUs) as part of the Automatic Train Control (ATC) system on Phase 1 of the Dulles Corridor Metrorail Project (Phase 1);

WHEREAS, These Horton RTUs have proven unreliable during the testing of Phase 1, causing the Washington Metropolitan Area Transit Authority (WMATA), the eventual operator of this first phase of the Silver Line, to require that they be replaced;

WHEREAS, Airports Authority and WMATA staff have concluded that increased train communications reliability can be achieved by acquiring and installing integrated circuit boards in the existing Alstom Vital Processor Interlocking Control System that is located along the Phase 1 line, rather than by installing new RTUs;

WHEREAS, Alstom is the only contractor capable of supplying these circuit boards for a seamless installation into the unique Alstom Vital Processor Interlocking Control System;

WHEREAS, As required by the Contracting Manual, notice of this intended sole source award has been published on the Airports Authority's website and the contract award will not be made prior to the required time period; now, therefore, be it

RESOLVED, That the President and Chief Executive Officer is authorized and directed to enter into a sole source contract with Alstom Signaling, Inc., for the technology upgrade to the Phase 1 Automatic Train Control system, consistent with the presentation made to the Dulles Corridor Committee at its April 16, 2014 meeting.

*For Consideration by the Dulles Corridor Committee and Board of Directors  
on April 16, 2014*

NOTE: Sole source contract – recorded vote required.