



**ITEM ID:** 2023-376-0

**TRANSMITTAL DATE:** December 1, 2023

**MEETING DATE:** December 8, 2023

**TO:** Board of Directors

**FROM:** Arnold Hackett, Chief Financial Officer  
Donald Filippi, Chief Operating Officer

**SUBJECT:** Contract No. MS331-24 - Positive Train Control (PTC) Simulators Software and Hardware Maintenance and Purchase New PTC Simulators - Recommendation for Award - Corys, Inc.

### **Issue**

To ensure proper crew training, consistent with current versions of PTC on-board software and hardware, and to be compliant with the Authority's regulatory requirements, a new maintenance contract is required with the Authority's existing train simulator vendor, Corys, Inc. Continued maintenance contract is critical to ensure Authority PTC simulators are kept up to date with the latest software functionality, as well as to procure new PTC simulators that match the Authority's fleet (i.e., F-125 and DMUs) and incorporate new functionality into the simulators such as the development of the Wireless Crossing Nearside Station Stop (WCNSS).

### **Recommendation**

It is recommended that the Board authorize the Chief Executive Officer to award Contract No. MS331-24 for PTC Simulators Software and Hardware Maintenance for a base contract term of five years with annual renewal options at the discretion of the Authority and to purchase new PTC simulators modeling our new locomotives to Corys, Inc. for a total not-to-exceed amount of \$5,000,000.

### **Strategic Commitment**

This report aligns with the Strategic Business Plan Commitment of:

- **Safety is Foundational:** The Authority will stay on the leading edge by deploying new technologies and processes to enhance the safety and security of our riders, our fellow employees, and the communities we serve. This report ensures that the Authority supports Positive Train Control (PTC) systems improvements as capital and rehabilitation projects are performed.

## **Background**

In compliance with Federal legislation, including the Rail Safety Improvement Act of 2008 and the Surface Transportation Extension Act of 2015, the Authority designed and implemented a sophisticated PTC system. This advanced technology system is designed to prevent train collisions, derailments, and other critical safety incidents. PTC employs predictive enforcement measures to proactively engage train brakes and prevent the following scenarios:

- Potential train-to-train collisions.
- Train over-speed situations.
- Unauthorized entry into track work zones.
- Movement through misaligned switches.

Since June 2015, the Authority has successfully deployed the PTC system "system-wide," covering all its dispatched rail lines and its entire fleet of locomotives and cab cars. As part of the PTC capital project deployment, the Authority procured PTC simulators, which were designed and delivered by Corys, Inc., a subcontractor under the PTC Vendor/Integrator Contract. These simulators play a crucial role in the Authority's PTC Safety Plan, supporting initial train qualification training and ongoing refresher training for the Authority's train crews. Upon the completion of the PTC capital project, a maintenance and support contract became essential to ensure that the simulators remained up to date with the latest software and hardware upgrades used on the Authority's locomotive and cab car fleet. On June 8, 2018, the Board awarded Contract MS281-19 to Corys, Inc., authorizing a not-to-exceed contract funding amount of \$850,000 for the five-year term that concluded in June 2023; in this contract, Corys, Inc. was responsible for upgrading the PTC onboard software for the simulators, as well as providing training, maintenance, and documentation. The contract had expired due to the fulfillment of the original statement of work. The new contract will build upon the original work, incorporating additional Statements of Work beyond the initial scope, and including procurement options if deemed necessary. The contractor delivered all necessary updates and fixes before the contract had expired, leaving Metrolink in a good position with no added risk during this contract lapse.

At the Board meeting on September 22, 2023, the Board approved the request authorizing staff to commence negotiations with Corys, Inc. to negotiate a new sole source multi-year contract for PTC Simulators Software and Hardware Maintenance as well as provisions to acquire additional simulators to accommodate the newly acquired vehicle models, such as the F-125 locomotives and the Diesel Multiple Units (DMUs).

## **Discussion**

To maintain the proficiency and safety of the Agency's mandatory PTC training program for train crews, it is imperative to ensure that our simulators remain up to date with the latest software and hardware. This is especially critical given the continuous evolution of Positive

