

Transportation Committee

Meeting date: January 23, 2017

For the Metropolitan Council meeting of February 8, 2017

Subject: Sole Source Purchase of Goods and Services from Rockwell Collins

District(s), Member(s): All

Policy/Legal Reference: Council Policy 3-3 Expenditures-Procurement of Goods and Services over \$500,000

Staff Prepared/Presented: Pancho Henderson, Assistant Director, IS, 651-602-1627; Jim Alexander, Assistant General Manager, TSD-SW, 612-373-3880; Mark Benedict, 612-341-5680, Director, Operations LRT; Pat Jones, Assistant Director Facilities Engineering, 612-349-7606; Dan Soler, Assistant General Manager, TSD-BLRT, 612-373-5371

Division/Department: Metro Transit

Proposed Action

That the Metropolitan Council authorizes the Regional Administrator to execute individual sole-source purchases for the 13 projects listed below, and enter into negotiations with Rockwell Collins Inc. in an amount not to exceed a total of \$30,645,000. Each contract will follow Council procurement policies and procedures before execution.

Background

The Council has purchased Supervisory Control and Data Acquisition (SCADA) and Passenger Information System software from Rockwell Collins for integrated train control and system monitoring. This Rockwell Collins Advanced Information Management (AIM) SCADA platform monitors and aggregates thousands of individual status points on the rail system. The AIM system is used to control all train signal systems, traction power systems, on-time performance monitoring, platform communications equipment, train arrival status and passenger announcements.

Rationale

Previous significant investments have resulted in the Council entering into business with Rockwell Collins to supply the current LRT operational SCADA software backbone. This Rockwell Collins system has proven to be safe and reliable. The Council has a vested working relationship with this vendor, making it more economically and operationally feasible to utilize sole source for the procurement of maintenance and enhancements to this system. Bringing all known Rockwell Collins projects to the Council at one time identifies interrelated dependencies and costs.

Projects

- 1. Green Line Extension:** This work will include programming for all the rail control/monitoring SCADA points for Light Rail Stations, Fare Collection, Park and Rides, Vertical Circulation, Tunnels, Rail Signaling, and Traction Power locations for the future Green Line Extension. This work will include integration and testing of all head end equipment to be added in the existing Rail Control Center.
- 2. Operations Table/Track Warrant Module:** Enhance AIM Rail system to automatically generate and manage the Rail Ops Table, and to automatically generate and manage the train operator's Track Warrants and to reflect the Track Warrant entries onto the SCADA GUI display.

3. **Reporting Module:** Enhance AIM Rail System to automatically generate the mandated tracking and reporting of irregular rail events, such as; red signal overruns, train delays, equipment trouble reports, compliance tests and work permits.
4. **EMI (Electro Magnetic Interference) Mitigation Modifications:** Programming of the AIM Rail System to control two negative breakers being installed in Green Line Substation 02 for the purpose of mitigating EMI spikes into the University of Minnesota campus.
5. **Northstar Integration:** Incorporate the Northstar system into the existing AIM Rail system so all operations of Northstar can be monitored and controlled in the Rail Control Center.
6. **Maintenance and support agreement:** Annual support agreement is needed to maintain, upgrade, support and keep all current security patches installed on the currently installed AIM Rail system.
7. **Blue Line Enhancements (Downtown Minneapolis):** Upgrade existing switch interlockings in downtown Minneapolis, and program AIM Rail system for the new equipment configuration and new signal locations.
8. **Blue Line Enhancements (MSP to MOA):** Upgrade existing switches and signals from MSP airport to MOA, and program AIM Rail system for the new equipment configuration and new signal locations.
9. **Blue Line Enhancements (Cedar St. to Ft. Snelling St.):** Upgrade switches and signals from Cedar St. to Ft. Snelling and program AIM Rail system for the new equipment configuration and new signal locations.
10. **Nicollet Platform Integration:** Integration of the new Nicollet Mall Station North Platform into the AIM Rail system to manage, monitor and control the platform security video, displays, ticket vending machines, and PA system.
11. **Blue Line Traction Power Energy Storage System:** Incorporate remote monitoring and control of the new traction power energy storage system.
12. **MSP Tunnel Doors:** Integration of new automated monitoring and control for the Blue Line rail tunnel doors and track detection systems at the airport.
13. **Blue Line Extension:** This work will include programming for all the rail control/monitoring SCADA points for Light Rail Stations, Fare Collection, Park and Rides, Vertical Circulation, Tunnels, Rail Signaling, and Traction Power locations for the future Blue Line Extension. This work will include integration and testing of all head end equipment to be added in the existing Rail Control Center.

Thrive Lens Analysis

Rockwell Collins infrastructure maintenance services and enhancements are needed to address the reliability, resilience, security, and cost-effectiveness of the Council's rail technology which support the Thrive outcomes of stewardship and sustainability. It will also allow the Council to continue providing reliable, affordable, environmental friendly and safe mass transportation to our ridership regardless of race, ethnicity, economic means or ability.

Funding

Funding will be authorized on a project by project basis in accordance with Council policy and procedures.

Known Support / Opposition

No known opposition.