TRIMET

Memo

Date: May 27, 2015

To: Board of Directors

From: Neil McFarlane

Subject: RESOLUTION 15-05-18 OF THE TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON (TRIMET) AUTHORIZING A MODIFICATION TO THE CONTRACT WITH ARINC INCORPORATED FOR CENTRAL CONTROL SYSTEM SOFTWARE UPGRADES FOR THE PORTLAND-MILWAUKIE LIGHT RAIL PROJECT

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1. Purpose of Item

The purpose of this item is to request that the TriMet Board of Directors ("Board") authorize the General Manager to execute a modification to the contract with Arinc Incorporated ("Arinc") for Central Control System Software Upgrades for the Portland-Milwaukie Light Rail Project ("Project").

2. Type of Agenda Item
☐ Initial Contract
☒ Contract Modification
☐ Other_____

3. Reason for Board Action

Board authorization is required because the proposed modification increases the contract amount beyond the amount previously authorized by the Board.

4. Type of Action:
☒ Resolution
☐ Ordinance 1st Reading
☐ Ordinance 2nd Reading
☐ Other _____

5. Background

TriMet uses Central Control System software for a number of purposes. It enables rail controllers to observe the locations and characteristics of light rail vehicles ("LRVs"), manage the traction power system, interact with the signal system, control tunnel emergency ventilation, and manage rail operator staffing and communications. In 2002, as a part of the Interstate MAX light rail project, TriMet entered into a contract with Arinc to provide

software and hardware for the Central Control System. The system installed by Arinc serves all light rail lines.

The existing Central Control System software has reached the end of its useful life. The underlying operating systems will soon be at the point where they are no longer supported by their vendors, and the existing Central Control System software will not function correctly with newer operating systems. As a result, at its June 2013 meeting, the Board approved Resolution 13-06-45, authorizing award of a contract with Arinc to upgrade the existing rail Central Control System to a modern system which will support all light rail lines, including the new Portland-Milwaukie Light Rail line. That Resolution authorized a contract amount of up to $1,376,519. At its October 2014 meeting, the Board approved Resolution 14-10-50, authorizing an increase of $125,000 in the contract amount in order to add a Global Positioning System ("GPS") tracking feature to the software, allowing improved tracking of LRVs on the system. This increased the contract amount to $1,501,519.

During the testing phase of the new software, TriMet identified additional desirable changes related to train routing, playback of events, train tracking, territory management, alarm displays, and radio interfaces. These fine-tuning adjustments will improve the user interface to further improve the speed and accuracy with which the rail controllers can operate the system.

This Resolution would authorize an increase in the contract amount of $100,000 in order to install these latest adjustments, which will cost $63,000, and provide a small change order allowance for the remainder of the contract work.

6. **Procurement Process**

TriMet requested a proposal from Arinc to add the new features to the software. The amount of the Arinc proposal is $63,389. This proposal is about six percent less than TriMet's independent cost estimate, and is deemed fair and reasonable.

7. **Diversity**

This work is software development and the software being developed is proprietary to Arinc. As a result, all work will be self-performed.

8. **Financial/Budget Impact**

This Resolution would authorize an increase to the contract amount of up to $100,000, which is included within the Portland-Milwaukie Light Rail Project budget for FY 2015-16.

9. **Impact if Not Approved**

If the Board elects not to approve this Resolution, TriMet will be unable to add software improvements that would maximize efficient rail controller use of the Central Control System. Given the proprietary nature of the system, procuring this work from another vendor is not practical.

RESOLUTION 15-05-18

RESOLUTION OF THE TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON (TRIMET) AUTHORIZING A MODIFICATION TO THE CONTRACT WITH ARINC INCORPORATED FOR CENTRAL CONTROL SYSTEM SOFTWARE UPGRADES FOR THE PORTLAND-MILWAUKIE LIGHT RAIL PROJECT

WHEREAS, TriMet has authority under ORS 267.200 to enter into a contract modification with Arinc Incorporated for Central Control System Software Upgrades ("Modification"); and

WHEREAS, the total amount of the Modification shall exceed the contract amount originally authorized by the TriMet Board of Directors ("Board"); and

WHEREAS, the Board, by Resolution dated November 25, 2009, adopted a Statement of Policies requiring the Board to approve goods and services contracts obligating TriMet to pay in excess of $500,000;

NOW, THEREFORE, BE IT RESOLVED:

1. That the Modification shall be in conformance with applicable laws.

2. That the General Manager or his designee is authorized to execute the Modification in an amount not to exceed $100,000.

Dated: May 27, 2015

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Presiding Officer

Attest:

_____
Recording Secretary

Approved as to Legal Sufficiency:

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Legal Department