



## Board Report

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**File #:** 2017-0545, **File Type:** Contract

**Agenda Number:** 25.

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### SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE SEPTEMBER 21, 2017

**SUBJECT:** A650 DC TRACTION MOTOR OVERHAUL

**ACTION:** APPROVE CONTRACT AWARD

#### **RECOMMENDATION**

AUTHORIZE the Chief Executive Officer to award a 60-month indefinite quantity/indefinite delivery Contract No. MA3280700 to Walco Electric Company for the overhaul of direct current (DC) traction motors for a not-to-exceed amount of \$1,188,440, subject to resolution of protest(s), if any.

#### **ISSUE**

This procurement is for the overhaul of 120 DC traction motors as recommended by the Original Equipment Manufacturer (OEM) established guidelines. Accomplishing overhaul activities will ensure the 30 car DC traction motor fleet remains in a constant State of Good Repair (SGR) and that our fleet is assessed based on condition in an effort to proactively increase passenger safety, vehicle availability and performance.

#### **DISCUSSION**

The A650 car DC traction Heavy Rail Vehicle Fleet is in its 25<sup>th</sup> year of revenue operations with over 800,000 miles of service per vehicle. To ensure a continued level of vehicle performance and in accordance with the OEM recommended guidelines, the traction motor overhaul is required at the 250,000 mile interval. This is a new Contract to replace the existing overhaul contract currently in use that expires on December 12, 2017.

The DC traction motor is a primary component of the vehicle propulsion system that electrically propels the vehicle and if not properly maintained, is subject to failures with negative impact to vehicle performance, reliability and passenger safety.

DC traction motors include electrical and mechanical components that wear out requiring both routine maintenance and overhaul for sustained reliability and equipment longevity. Moreover, these components require specialized tooling, fixtures, and training that is beyond in-house Metro staff capabilities. The contractor will perform overhaul services in accordance with the OEM Maintenance Manuals and Metro engineering technical specifications. The production schedule includes a maximum of four traction motors per month.

#### **DETERMINATION OF SAFETY IMPACT**

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Safety of our passengers and employees is of the utmost importance to Metro and, therefore, it is imperative to maintain the A650 fleet to the highest standards. The contract award for DC traction motor overhaul services will ensure that the motors are overhauled in accordance with regulatory standards, according to the defined schedule and within Metro's internal maintenance standards, policies and procedures.

**FINANCIAL IMPACT**

Funding in the amount of \$118,844 for this procurement is included in the FY18 budget in cost center 3942, Rail Fleet Services Maintenance, under project number 300044, line item 50441, Parts - Revenue Vehicle. Since this is a multi-year Contract, the cost center manager, project manager and Sr. Executive Officer, Rail Fleet Services will ensure that the balance of funds is budgeted in future fiscal years.

**Impact to Budget**

The FY18 funding for this Contract will come from the Enterprise Fund. These funds are eligible to be used for rail operations and capital projects. No other sources of funds were considered for this project because these are the designated funds available for rail operations. This procurement is part of the on-going maintenance costs of the rail fleet services program.

**ALTERNATIVES CONSIDERED**

The alternative to defer A650 DC traction motor overhaul work is not recommended as doing so could increase the agency's exposure to risk and internal motor components could be subject to increased mechanical failures which would have a negative impact on safety, service and vehicle reliability. Deferral of A650 DC traction motor overhaul work can also result in bearing failures and damage to electrical components (e.g. commutator, windings, and electrical shuts) which could lead to short circuiting and electrical fires within tunnel operations.

**NEXT STEPS**

Overhaul of the DC traction motors will continue in accordance with OEM and Metro's preventive and equipment overhaul requirements. If approved, the contractor is scheduled to commence DC traction motor overhaul services in December 2017.

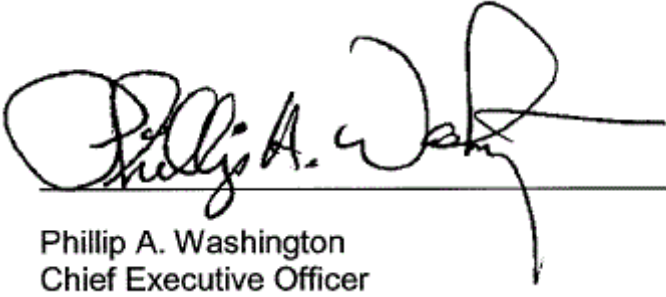
**ATTACHMENTS**

Attachment A - Procurement Summary

Attachment B - DEOD Summary

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