

MOTION NO. M2018-92
Link Light Rail Traction Motor Overhaul & Repair Services

| MEETING: | DATE: | TYPE OF ACTION: | STAFF CONTACT: |
|---|--------------|------------------------|---|
| Operations and Administration Committee | 08/02/2018 | Final Action | Bonnie Todd, Executive Director of Operations George McGinn, Link Maintenance Manager |

PROPOSED ACTION

Authorizes the chief executive officer to execute a five-year contract with Delta Electric Motors, Inc. to provide Traction Motor Assembly Overhaul and Repair Services for Link light rail vehicles for a total authorized contract amount not to exceed \$1,170,232 plus applicable taxes.

KEY FEATURES SUMMARY

- The current light rail vehicles (LRVs) are reaching mid-life overhaul mileage on several systems.
- The traction motor assemblies located on the LRV's power trucks are one of the systems that will go through mid-life overhaul.
- The traction motor overhaul will be conducted over a three-year period and is necessary in order to maintain the LRV in a state of good repair and achieve full life expectancy.
- The contract scope of work includes the disassembly of units, inspection, replacement of worn components, reassembly, and final testing.
- This contract will also support as needed traction motor repairs for five years. The not to exceed amount is expected to cover all five years of the contract.
- The contract includes shipping and handling costs to and from Delta Electric Motors in Tukwila, Washington.
- The current estimated tax amount is \$118,194.

BACKGROUND

Many of the current light rail vehicles have been in operation since 2007 (when testing and pre-revenue service began), and many are reaching mid-life overhaul mileage on several major systems earlier than previously anticipated due to increases in operations with higher than expected ridership.

The Link light rail maintenance division anticipates that the traction motor assembly on the light rail vehicles' power trucks will need to go through mid-life overhaul this year. The process will consist of removing all four traction motor assemblies in each LRV on a rotational schedule over the next three years and shipping them to the contractor in Tukwila, Washington for overhaul services.

The contractor will perform the overhaul by disassembling the units in order to inspect for wear, tear, and abnormalities; overhauling (replacing parts as needed and recommended by the original equipment manufacturer); reassembling the units; and final testing.

The contractor will ship the overhauled units back to Sound Transit and staff will rotate them back into the fleet. The project will replace all 248 units currently in use on 62 vehicles as well as spare units.

The division is aligning resources to execute the mid-life overhaul on time and with the highest efficiency possible over the next three years.

In addition to overhaul service contract, Link light rail is also including a five-year service contract with Delta Electric motors, Inc. to provide as needed repair services for the traction motor assemblies.

PROCUREMENT INFORMATION

A Request for Proposal (RFP) was issued on May 7, 2018 for these services. Four proposals were received. Proposals were evaluated by an evaluation committee and Delta Electric Motors, Inc. was recommended for award based upon their proposal which offered the best value for Sound Transit.

Delta Electric's rates are fair and reasonable based on comparison of the competitive market rates submitted by the other proposers for these services and comparison to the Independent Cost Estimate (ICE.) Sound Transit's ICE was determined to be \$1,522,698.17 plus applicable taxes. The agreed price for the contract is \$1,170,231.75 plus applicable taxes which is \$352,466.40 less than the ICE and Requisition amounts. This is a savings of 23% from the ICE.

FISCAL INFORMATION

This action is within the authorized project allocation to date for the above project, and sufficient monies remain after approval of this action to fund the remaining project work.

The authorized project allocation to date for the Link Light Rail Vehicle Overhaul project is \$10,115,000. Within that amount, \$715,760 has been previously committed. The proposed action will commit \$1,288,425 and leave \$8,11,815 remaining budget in the vehicles phase.

Link Light Rail Vehicle Overhaul
(in thousands)

| Project Phase | 2018 Proposed Project | | Board Approvals | This Action | Board Approved Plus Action | Uncommitted / (Shortfall) |
|-----------------------------|-----------------------|----|-----------------|----------------|----------------------------|---------------------------|
| | Allocation to Date | | | | | |
| Agency Administration | | \$ | \$ | \$ | \$ | \$ |
| Preliminary Engineering | | | | | | |
| Final Design | | | | | | |
| Right of Way | | | | | | |
| Construction | | | | | | - |
| Construction Services | | | | | | |
| Third Party Agreements | | | | | | |
| Vehicles | 10,115 | | 716 | 1,288 | 2,004 | 8,111 |
| Contingency | | | | | | |
| Total Current Budget | \$10,115 | | \$716 | \$1,288 | \$2,004 | \$8,111 |
| Phase Detail | | | | | | |
| Vehicles | | | | | | |
| Vehicles | \$10,115 | | \$716 | \$1,288 | \$2,004 | \$8,111 |
| Other (Phase Name) | | | | | | |
| Total Phase | \$10,115 | | \$716 | \$1,288 | \$2,004 | \$8,111 |

| Delta Electric Motors, Inc. | Board Approvals to Date | Current Approved Contract Status | Proposed Action | Proposed Total for Board Approval |
|-----------------------------|-------------------------|----------------------------------|-----------------|-----------------------------------|
| Contract Amount | \$ | \$ | \$1,170 | \$1,170 |
| Contingency | | | | |
| Estimated Tax | | | 118 | 130 |
| Total | \$ | \$ | 1,288 | 1,300 |
| Percent Contingency | 0% | 0% | 0% | 0% |

Notes:

Amounts are expressed in Year of Expenditure.
Board Approvals = Committed To-Date + Contingency as of September, 2018, and includes pending Board actions.
For detailed project information, see page 124 in the Adopted 2018 Transit Improvement Plan.

SMALL BUSINESS/DBE PARTICIPATION

Sound Transit promotes and encourages small business participation, which also includes Disadvantaged Business Enterprises (DBEs). Sound Transit determined that there were few Small Business and DBE subcontracting opportunities based upon the work described in this contract, so Small Business/DBE goals were not established.

PUBLIC INVOLVEMENT

Not applicable to this action.

TIME CONSTRAINTS

A one-month delay would not create a significant impact to the project schedule.

ENVIRONMENTAL REVIEW

KH 7/20/2018

LEGAL REVIEW

AJP 7/27/18

MOTION NO. M2018-92

A motion of the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a five-year contract with Delta Electric Motors, Inc. to provide Traction Motor Assembly Overhaul and Repair Services for Link light rail vehicles for a total authorized contract amount not to exceed \$1,170,232 plus applicable taxes.

BACKGROUND:

Many of the current light rail vehicles have been in operation since 2007 (when testing and pre-revenue service began), and many are reaching mid-life overhaul mileage on several major systems earlier than previously anticipated due to increases in operations with higher than expected ridership.

The Link light rail maintenance division anticipates that the traction motor assembly on the light rail vehicles' power trucks will need to go through mid-life overhaul this year. The process will consist of removing all four traction motor assemblies in each LRV on a rotational schedule over the next three years and shipping them to the contractor in Tukwila, Washington for overhaul services.

The contractor will perform the overhaul by disassembling the units in order to inspect for wear, tear, and abnormalities; overhauling (replacing parts as needed and recommended by the original equipment manufacturer); reassembling the units; and final testing.

The contractor will ship the overhauled units back to Sound Transit and staff will rotate them back into the fleet. The project will replace all 248 units currently in use on 62 vehicles as well as spare units.

The division is aligning resources to execute the mid-life overhaul on time and with the highest efficiency possible over the next three years.

In addition to overhaul service contract, Link light rail is also including a five-year service contract with Delta Electric motors, Inc. to provide as needed repair services for the traction motor assemblies.

MOTION:

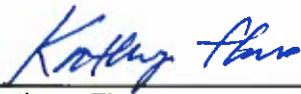
It is hereby moved by the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a five-year contract with Delta Electric Motors, Inc. to provide Traction Motor Assembly Overhaul and Repair Services for Link light rail vehicles for a total authorized contract amount not to exceed \$1,170,232 plus applicable taxes.

APPROVED by the Operations and Administration Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on August 2, 2018.



Paul Roberts
Operations and Administration Committee Chair

ATTEST:



Kathryn Flores
Board Administrator