



## Board Report

File #: 2018-0579, File Type: Agreement

Agenda Number: 19.

### OPERATIONS, SAFETY, AND CUSTOMER EXPERIENCE COMMITTEE OCTOBER 18, 2018

**SUBJECT: METRO RED LINE (MRL) UNINTERRUPTIBLE POWER SUPPLY (UPS) BATTERIES**

**ACTION: ESTABLISH A MRL UPS BATTERY SUPPLIER BENCH**

#### **RECOMMENDATION**

CONSIDER:

- A. ESTABLISHING two contract agreements solicited as Request for Information and Qualification (RFIQ) No. OP44570-2 with M.C. Dean, Incorporated and Skyler Electric Company, Incorporated for goods and services for amount of \$2,244,000 for a two year base period and \$1,000,000 for three one year options for a total not-to-exceed cumulative value of \$3,244,000, subject to resolution of protest(s), if any;
- B. AUTHORIZING the CEO to award Task Orders to qualified UPS Battery suppliers under the approved not-to-exceed cumulative total value of \$3,244,000; and
- C. AUTHORIZING the CEO to add additional qualified Uninterruptible Power Supply (UPS) Battery suppliers to the Bench subject to each potential supplier meeting the same RFIQ evaluation criteria qualifications; and award Task Orders to these qualified suppliers within the approved not-to-exceed cumulative total value of \$3,244,000.

#### **ISSUE**

The Uninterruptible Power Supply units and batteries on the Metro Red Line Segments 2 and 3 are in need of replacement as this system has become obsolete. During the July 2018 Board meeting, Contract No. OP36847000 was approved (File ID 2018-0069) for the purchase of the UPS units and staff is now seeking approval to award Bench contracts for the purchase of MRL UPS batteries as they are critical in providing backup power for emergency lighting, fire and life safety equipment, and communications in the event of power loss on the Red and Purple Lines.

Task Orders for the efficient and timely procurement of MRL UPS batteries is necessary as batteries have a shelf life or period in which they remain effective, useful, or suitable for consumption, of only a few months. Therefore, it is neither recommended nor cost effective to order more quantities than needed at any specific time to have in inventory ready for field installation. In addition, UPS Batteries are manufactured with metals such as lead and copper and their cost varies with fluctuations in the

commodity market, affecting pricing stability. Also, commercial UPS batteries required for critical Metro emergency systems are produced by manufacturers, which have impacted acquisition lead times by approximately eight to ten weeks.

This bench will ensure that Metro has multiple qualified, reliable vendors who are able to provide batteries at a competitive price and within a reasonable timeframe over a five year period, particularly during emergencies or situations that can adversely impact safety, service and reliability for our customers and employees. The bench will also allow additional prospective suppliers to apply, be evaluated against the same RFIQ evaluation criteria, and if deemed qualified, join the MRL UPS bench, increasing competitive pricing, stability and reliability relative to battery supply for Metro.

## **BACKGROUND**

The Metro Red Line has sixteen passenger stations and two facilities underground. These locations have a total of 36 UPS' with two or four hour battery banks in service. These banks of batteries are required to operate the UPS' and are critical for Fire and Life Safety functions. The UPS batteries provide emergency power for lighting and communication systems in order to evacuate patrons and employees when normal utility power to the underground passenger stations and facilities is interrupted or lost.

## **DISCUSSION**

The UPS in the Red and Purple Lines provides backup power for emergency lighting, fire and life safety equipment, and communications in the event of power loss. These systems facilitate the safe evacuation of passengers and staff during an emergency on the subway system. The UPS equipment is a complex system of electronic controls, transformers, inverters, circuit boards, battery banks, and a battery charger. When battery or other system failures occur, it is essential that Metro have the staff and battery components available to restore system functionality in the shortest possible time to minimize risk and continue the delivery of service.

In the event of a loss of utility power, each station has one or two banks of emergency back-up batteries that provide up to four hours of emergency power to (1) provide traction power control power, (2) provide power to operate Supervisory Control and Data Acquisition systems (SCADA), (3) operate Communication Systems, (4) operate Fire Life Safety monitoring (such as fire alarm, gas analyzers, etc.), and (5) Fire Life Safety mitigation systems (such as standpipes, deluge systems, etc.). The banks of batteries being proposed for replacement have reached the end of their useful life.

Staff recommends Task Orders to cover the immediate replacement of batteries that have reached the end of their useful life and subsequent batteries as they reach their lifespan end during the next five years.

## **DETERMINATION OF SAFETY IMPACT**

Approval of this award will have a positive impact on safety as the UPS is required for the proper functioning of critical emergency lighting for tunnels and passenger station evacuations. UPS

batteries also provide electrical power to operate law enforcement and Metro Security radio and communication systems, Variable Message Signs and Supervisory Control and Data Acquisition systems (SCADA). UPS batteries are also required for the control power to operate substation High Voltage Switchgears.

### **FINANCIAL IMPACT**

The total five-year contract amount is not to exceed \$3,244,000. Funding for Task Orders will come from Capital Project (CP) 205106 - Metro Red Line UPS Batteries Replacement and any future or ongoing capital projects established for the purchase of batteries for the Red Line as a part of Metro's State of Good Repair program . The Board approved a Life-of-Project (LOP) budget of \$3,684,000 in FY 17 for CP 205106. Funding of \$943,232 in CP 205106 is included in the FY 19 budget in cost center 3960 Rail Transit Engineering, project 205106, account 53102 - acquisition of equipment.

Since this is a multi-year contract, the Project Manager will ensure that the balance of funds is budgeted in future fiscal years in the appropriate capital projects.

### **Impact to Budget**

The current source of funds for this action are Proposition A 35%. This funding source currently maximizes allowable project funding allocations given approved funding provisions and guidelines.

### **IMPLEMENTATION OF STRATEGIC PLAN GOALS**

Approval of this recommendation supports the following Metro Strategic Plan Goal 1: Provide responsive, accountable, and trustworthy governance within the Metro organization. This project will help maintain safety, service and reliability standards in an effort to provide a world-class transportation system that enhances quality of life for all who live, work, and play within LA County.

### **ALTERNATIVES CONSIDERED**

These requirements could be filled, as they occur, through a series of single source procurements, however, this approach is not recommended since it adds unnecessary cycle time and adds to the risk brought about by a battery failure. There are no other suitable energy sources to operate the critical emergency loads.

### **NEXT STEPS**

Upon Board approval, staff will proceed with issuing contracts and compete Task Orders among qualified suppliers on the bench.

### **ATTACHMENTS**

Attachment A - Expenditure Plan


Attachment B - Procurement Summary

Attachment C - DEOD Summary

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Phillip A. Washington  
Chief Executive Officer

**Expenditure Plan and Source of Funds**

**Metro Red Line Uninterrupted Power Supply (UPS) and Batteries Replacement**

<b>Item</b>	<b>Past ITD</b>	<b>Current FY 2019</b>	<b>Future FY 2020</b>	<b>Future FY 2021</b>	<b>Future FY 2022+</b>	<b>Total</b>
OP44570-2000 - UPS Batteries (Skyler Electric Co. and McDean Inc.)		\$ 500,000	\$ 400,000	\$ 1,344,000	\$ 1,000,000	\$ 3,244,000
OP36847000 - Uninterruptible Power Supply (Tristar Power Solutions)		\$ 300,000	\$ 240,000	\$ 240,000	\$ 224,000	\$ 1,004,000
OP10599800048045 - Rigging Services (United Riggers and Erectors)		\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 100,000
PS54830-MOW-TO4 - Project Control Services (Gannett Fleming)		\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 24,000
Services	\$ 18,724					\$ 18,724
Metro Labor	\$ -	\$ 114,200	\$ 118,460	\$ 122,669	\$ 134,680	\$ 490,009
<b>Total</b>	<b>\$ 18,724</b>	<b>\$ 945,200</b>	<b>\$ 789,460</b>	<b>\$ 1,737,669</b>	<b>\$ 1,389,680</b>	<b>\$ 4,880,733</b>

**Yearly Cash Flow Forecast:**

Project 205106 - MRL UPS Batteries	\$ 18,724	\$ 945,200	\$ 789,460	\$ 993,669	\$ 936,947	\$ 3,684,000
Other Capital Projects Established/Utilized for the Purchase of MRL Batteries				\$ 744,000	\$ 452,733	\$ 1,196,733

## PROCUREMENT SUMMARY

## Metro Red Line UPS Batteries OP44570-2000

1.	<b>Contract Number: OP44570-2000</b>	
2.	<b>Recommended Vendor:</b> M.C. Dean Inc. & Skyler Electric Co. Inc.	
3.	<b>Type of Procurement (check one):</b> <input type="checkbox"/> IFB <input type="checkbox"/> RFP <input type="checkbox"/> RFP-A&E <input type="checkbox"/> Non-Competitive <input type="checkbox"/> Modification <input checked="" type="checkbox"/> Task Order RFIQ	
4.	<b>Procurement Dates:</b>	
	<b>A. Issued:</b> 5/4/18	
	<b>B. Advertised/Publicized:</b> 4/27/18	
	<b>C. Pre-Proposal Conference:</b> 5/10/18	
	<b>D. Proposals Due:</b> 7/3/18	
	<b>E. Pre-Qualification Completed:</b>	
	<b>F. Conflict of Interest Form Submitted to Ethics:</b> 7/13/18	
	<b>G. Protest Period End Date:</b> 10/19/18	
5.	<b>Solicitations Picked up/Downloaded:</b> 22	<b>Bids/Proposals Received:</b> 2
6.	<b>Contract Administrator:</b> Aryani L. Guzman	<b>Telephone Number:</b> 213-922-1387
7.	<b>Project Manager:</b> Winston Dixon	<b>Telephone Number:</b> 213-922-3323

**A. Procurement Background**

This Board Action is to establish a pool of qualified vendors to be on a Task Order Bench to support Metro's Maintenance of Way (MOW) Department in the procurement of various UPS battery types for Metro Red Line (MRL) Station locations. Board approval of no cost contract agreements to be subsequently assigned competed Task Orders, are subject to resolution of any properly submitted protest.

A Request for Interest and Qualifications (RFIQ) was issued in accordance with Metro's Acquisition Policy.

Two (2) amendments were issued during the solicitation phase of this RFIQ:

- Amendment No. 1, issued May 31, 2018; to add battery types to Statement of Work.
- Amendment No. 2, issued June 5, 2018; to revise proposal due date.

A total of two (2) Interest and Qualification Statements were received on July 3, 2018.

## **B. Evaluation of Interest & Qualification Statement**

Interest and Qualification Statements were reviewed by the Source Selection Committee (SSC). The SSC consisted of technical staff members from Metro's MOW department that conducted a "Go" or "No-Go" evaluation based the following minimum qualifications as were defined in the RFIQ:

### **Experience**

- Knowledge and technical understanding of UPS Batteries
- A minimum of five (5) years of active engagement in installing and commissioning of industrial battery banks
- List of completed UPS Battery projects

### **Technical**

- Required to have a current & valid C10 electrical license
- Required to have a qualified technical & operations team (resumes required)
- Provide sample battery bank design, sizing, calculation similar to Metro's application
- Provide sample of battery Midtronics or Cellcorder test instrument test results for review

To qualify to be on the UPS Battery Bench a proposer was required to meet all the defined RFIQ minimum qualifications. Accordingly, an assigned "No Go" rating against any defined minimum qualification was cause for elimination from the evaluation process deeming the proposer non-responsive and ineligible for participation on Bench.

The following two firms met the RFIQ minimum qualifications, and were deemed responsive and responsible to the RFIQ solicitation requirements:

1. M.C. Dean, Incorporated
2. Skyler Electric Company, Incorporated

Placement on the Bench will not guarantee an award of any task order.

## **C. Cost/Price Analysis**

There was no price information required for the Interest and Qualification evaluation phase. Cost/Price Analysis will be performed, as appropriate, on resultant Task Order competitions.

## **D. Background on Recommended Contractor**

### **M.C. Dean Inc.**

M.C. Dean, Incorporated has over 69 years of experience in providing electrical services to federal, state, and local governments, as well as transportation

authorities throughout the nation. M.C. Dean has local offices in California, including in Torrance, Concord, and Santa Clara. The Torrance office in Southern California will be the operational center for this project, with reach-back from their other California offices and their corporate headquarters located in the Washington, D.C. Metropolitan area. M.C. Dean has performed over 1,000 plus battery installations throughout hundreds of jobs in Southern California.

**Skyler Electric Co. Inc.**

Skyler Electric Company, Incorporated was founded in 1997 specializing in maintenance of complete DC plants and battery systems for telecommunications, rail systems, utilities, data centers and UPS industries. Its products include batteries, rectifiers, power distribution, power boards, converters, inverters and UPS systems. The firm has extensive experience in providing services to public agencies including Metro, and private entities such as AT&T and T-Mobile. Skyler has provided and installed UPS batteries at multiple Metro rail stations and their performance has been satisfactory. Skyler have local offices in Huntington Beach and Grass Valley California, and office locations in Kent, Washington and Bedford, Texas.



## DEOD SUMMARY

## METRO RED LINES UPS BATTERIES / OP44570-2000

**A. Small Business Participation**

The Diversity and Economic Opportunity Department (DEOD) established a 5% Small Business Enterprise (SBE) and 3% Disabled Veteran Business Enterprise (DVBE) goal for this solicitation. M.C. Dean, Inc. and Skyler Electric Company, Inc. formed teams that included SBE and DVBE firms without schedules or specific dollar commitments prior to the establishment of this Task Order Contract and have committed to meeting the 5% SBE and 3% DVBE goals.

In response to a task order request, the prime contractor will be required to identify SBE/DVBE subcontractor activity and actual dollar value commitments for that task order.

**Prime: M.C. Dean, Inc.**

<b>Small Business Goal</b>	<b>5% SBE 3% DVBE</b>	<b>Small Business Commitment</b>	<b>5% SBE 3% DVBE</b>
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	<b>SBE Subcontractor</b>	<b>% Committed</b>
1.	RBT Electric	5%
	<b>Total SBE Commitment</b>	<b>5%</b>

	<b>DVBE Subcontractor</b>	<b>% Committed</b>
1.	3531 Trucking Inc.	3%
	<b>Total DVBE Commitment</b>	<b>3%</b>

**Prime: Skyler Electric Company, Inc.**

<b>Small Business Goal</b>	<b>5% SBE 3% DVBE</b>	<b>Small Business Commitment</b>	<b>5% SBE 3% DVBE</b>
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	<b>SBE Subcontractor</b>	<b>% Committed</b>
1.	Southbay Transport Inc.	5%
	<b>Total SBE Commitment</b>	<b>5%</b>

	<b>DVBE Subcontractor</b>	<b>% Committed</b>
1.	SigTel, Inc	3%
	<b>Total DVBE Commitment</b>	<b>3%</b>

**B. Living Wage and Service Contract Worker Retention Policy Applicability**

The Living Wage and Service Contract Worker Retention Policy is not applicable to this Contract.

**C. Prevailing Wage Applicability**

Prevailing wage is not applicable to this Contract.

**D. Project Labor Agreement/Construction Careers Policy**

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract. PLA/CCP is applicable only to construction contracts that have a construction contract value in excess of \$2.5 million.