



To: Honorable Public Utilities Board

Submitted by: */S/*
Robert Orbeta
AGM - Administration

From: Ikue Suto-McNiff
Procurement Analyst

Approved by: */S/*
Nicolas Procos
General Manager

Subject: By Motion, Requiring Four-Fifths Vote, Delegate Authority to the General Manager to Sole Source the Purchase of GEC Durham Industries' Current Transformers from McAvoy & Markham Engineering & Sales Co. for a Term of Three Years Commencing Fiscal Year 2024 in an Amount Not to Exceed \$60,000

RECOMMENDATION

By *motion*, requiring four-fifths vote, delegate authority to the General Manager to sole source the purchase of GEC Durham Industries' current transformers from McAvoy & Markham Engineering & Sales Co. for a term of three years commencing fiscal year 2024 in an amount not to exceed \$60,000.

BACKGROUND

Current transformers (CTs) are used for the measurement of electrical currents. When the current is too high to be directly applied to a measuring instrument (like a meter), a CT will be needed to produce the proportionally reduced current signal which can be directly applied to the measurement device. Alameda Municipal Power (AMP) purchases and installs CTs when the customer meter panel main disconnect is greater than 400 amps and requires three-phase service. AMP has standardized on six types of meter panel CTs to measure the different main disconnects from 400 amps to 4000 amps.

AMP last purchased GEC Durham Industries' (GEC) current transformers from McAvoy & Markham Engineering & Sales Co. (McAvoy) in July 2022 and the CTs have been delivered. FY 2023 purchases, including the July 2022 purchase of \$12,700 and the proposed purchase request of \$14,100, come to a total of \$26,800, which exceeds the threshold of a material purchase award, and requires the Public Utilities Board (Board) to approve the current purchase request.

DISCUSSION

The following table shows the list of current transformers and the quantity recommended for purchase.

AMP Item Code	Description	Recommended for Purchase	Use
01708	CURRENT TRANSFORMER, 600:5 WINDOW TYPE, RF3, B0.5, 0.3 ACC	15	North Loop Service Upgrades
01709	CURRENT TRANSFORMER, 1000:5 WINDOW TYPE, RF2, B0.5, 0.3 ACC	15	Marina Village EVCS and North Loop Service Upgrade
01710	CURRENT TRANSFORMER, 1500:5 WINDOW TYPE, RF3, B0.9, 0.3 ACC	15	Mariner Village Pkwy Power Support, Harbor Bay Pkwy Hotel, and South Loop Service Upgrade

Staff requested a current price quote from McAvoy to supply the CTs recommended for purchase as seen in Exhibit A. Staff anticipates more purchases based on new developments and would like the Board’s award to remain valid for up to three years in an amount not to exceed \$60,000 commencing in FY 2024 based on the average purchased amount in the past three fiscal years.

Sole Source Justification

Staff recommends sole source purchasing of the current transformers from McAvoy for the following reasons:

- To match existing equipment installed at Alameda commercial and industrial customers, which will maintain standardization and continuity. AMP has a large installment of GEC CTs at Alameda’s 4,000 commercial and industrial customers.
- GEC provides safer and easier installation.
 - GEC secondary wiring connection to existing current and voltage sources is direct, with less bending or kinking of the wires, that will provide secure connections and will extend the life of these wires.
 - GEC uses a manual twist to lock mechanism to secure wire. GEC’s twist-to-lock mechanism allows technical manual manipulation. Unlike other manufacturers, GEC’s CTs are safer options and easier to install.
- McAvoy is GEC’s only distributor that AMP can procure from due to their geographical assignment. See attached Exhibit C.

AMP staff is seeking Board approval to delegate authority to the General Manager to sole source the purchase of proposed CTs for a recommended term of three years commencing in FY 2024 for a not-to-exceed amount of \$60,000, including sales tax and shipping. Sole source approval requires a four-fifths affirmative vote of the Board.

FINANCIAL IMPACT

The purchase of current transformers is included in the FY 2024 budget and will be added to subsequent FY 2025 and FY 2026 budgets.

EXHIBITS

- A. McAvoy & Markham Engineering & Sales Co. Quote
- B. Current Transformers Purchasing History in FY21, FY22, and FY23
- C. GEC Durham's Statement

EXHIBIT A
Quote

McAvoy & Markham Engineering & Sales Co.
 16 Technology Drive #113
 Irvine, CA 92618
 (949) 727-3966 fax (949) 727-3910
 sales@mcavoy-markham.com

Date	Quote #
2/23/2023	022323-1

Name / Address
Alameda Municipal Power 2000 Grand Street Alameda, CA 94501 accounts_payable@alamedamp.com

Ship To
Alameda Municipal Power 2000 Grand St Alameda, CA 94501

Terms	FOB	Freight
Net 30	Factory	Allowed

Line	Item	Description	Qty	Unit Cost	Total
1	555EP	GEC Durham CURRENT TRANSFORMER, 600:5 WINDOW TYPE, RF3, B0.5, 0.3 ACC	15	259.74	3,896.10T
2	562EP	GEC Durham CURRENT TRANSFORMER, 1000:5 WINDOW TYPE, RF2, B0.5, 0.3 ACC	15	288.86	4,332.90T
3	558EP	GEC Durham CURRENT TRANSFORMER, 1500:5 WINDOW TYPE, RF3, B0.9, 0.3 ACC	15	296.34	4,445.10T
		lead time = 18-20 weeks pricing valid thru 3/30/23			

Thank you for your business	Subtotal	\$12,674.10
	Sales Tax (10.75%)	\$1,362.47
	Total	\$14,036.57

EXHIBIT B

Current Transformers Purchasing History in FY21, FY22, and FY23

Fiscal Year (FY)	Purchase Date	AMP Code	Description	Quantity	Unit Price (Including Delivery, Excluding Sales Tax)	Extended Price (Including Deliver & Sales Tax)
21	11/25/20	01705	200:5 BAR TYPE, RF2, B0.5, 0.3 ACC	21	\$ 73.91	\$ 1,703.44
		01706	400:5 BAR TYPE, RF2, B0.5, 0.3 ACC	36	\$ 72.07	\$ 2,847.49
		01707	600:5 BAR TYPE, RF2, B0.5, 0.3 ACC	12	\$ 105.61	\$ 1,390.88
		01708	600:5 WINDOW TYPE, RF3, B0.5, 0.3 ACC	3	\$ 139.57	\$ 459.53
		01710	1500:5 WINDOW TYPE, RF3, B0.9, 0.3 ACC	9	\$ 144.83	\$ 1,430.56
						\$ -
	12/9/20	01708	600:5 WINDOW TYPE, RF3, B0.5, 0.3 ACC	6	\$ 146.29	\$ 963.32
		01709	1000:5 WINDOW TYPE, RF2, B0.5, 0.3 ACC	9	\$ 162.69	\$ 1,606.97
		01710	1500:5 WINDOW TYPE, RF3, B0.9, 0.3 ACC	6	\$ 166.90	\$ 1,099.04
						\$ -
	5/27/21	01705	200:5 BAR TYPE, RF2, B0.5, 0.3 ACC	3	\$ 84.41	\$ 277.92
		01706	400:5 BAR TYPE, RF2, B0.5, 0.3 ACC	12	\$ 82.31	\$ 1,084.02
	01710	1500:5 WINDOW TYPE, RF3, B0.9, 0.3 ACC	15	\$ 190.62	\$ 3,138.08	
				FY21 Grand Total	\$ 16,001.25	
22	1/20/22	01706	400:5 BAR TYPE, RF2, B0.5, 0.3 ACC	15	\$ 106.67	\$ 1,772.06
		01708	600:5 WINDOW TYPE, RF3, B0.5, 0.3 ACC	9	\$ 216.54	\$ 2,158.36
		01709	1000:5 WINDOW TYPE, RF2, B0.5, 0.3 ACC	9	\$ 240.81	\$ 2,400.27
		01710	1500:5 WINDOW TYPE, RF3, B0.9, 0.3 ACC	9	\$ 247.04	\$ 2,462.37
	3/17/22	01705	200:5 BAR TYPE, RF2, B0.5, 0.3 ACC	12	\$ 109.40	\$ 1,453.93
		01707	600:5 BAR TYPE, RF2, B0.5, 0.3 ACC	3	\$ 156.34	\$ 519.44
					FY22 Grand Total	\$ 10,766.43
	23	7/14/22	01706	400:5 BAR TYPE, RF2, B0.5, 0.3 ACC	12	\$ 121.86
01707			600:5 BAR TYPE, RF2, B0.5, 0.3 ACC	12	\$ 175.10	\$ 2,327.08
01708			600:5 WINDOW TYPE, RF3, B0.5, 0.3 ACC	12	\$ 242.52	\$ 3,223.09
01709			1000:5 WINDOW TYPE, RF2, B0.5, 0.3 ACC	9	\$ 269.70	\$ 2,688.23
01710			1500:5 WINDOW TYPE, RF3, B0.9, 0.3 ACC	9	\$ 276.69	\$ 2,757.91
March 2023 (Current Request)		01708	600:5 WINDOW TYPE, RF3, B0.5, 0.3 ACC	15	\$ 259.74	\$ 4,314.93
		01709	1000:5 WINDOW TYPE, RF2, B0.5, 0.3 ACC	15	\$ 288.86	\$ 4,798.69
	01710	1500:5 WINDOW TYPE, RF3, B0.9, 0.3 ACC	15	\$ 296.34	\$ 4,922.95	
				FY23 Grand Total	\$ 26,652.40	

3 FY average: approximately \$18,000. With industrywide foreseeable price increases, average cost per year would be \$20,000.



*Committed to Quality and Continuous Improvement
Manufacturing Location: New Bedford, MA.*

Alameda Municipal Power
2000 Grand St
Alameda, CA 94501

2/20/2023

Dear Alameda Municipal Power,

This letter is intended to clarify that The Durham Companies sales representation for metering products in California is McAvoy & Markham Engineering & Sales Co.

McAvoy & Markham Engineering & Sales Co has a long history of representing The Durham Company in the public power market and is The Durham Companies authorized and sole electricity meter stocking distributor for California.

Please do not hesitate to contact e if additional information is required.

Mike Crisp

A handwritten signature in blue ink that reads "Mike Crisp".

GEC Durham Ind
National Utility Sales Manager