



**AGENDA ITEM EXECUTIVE SUMMARY**

Title: Recommendation to Approve Purchase Order with CG Power Systems for Prairie Street Substation Transformer

Presenter: Tom Bruhl

*Please check appropriate box:*

<input type="checkbox"/>	Government Operations	<input checked="" type="checkbox"/>	Government Services 07.27.15
<input type="checkbox"/>	Planning & Development	<input type="checkbox"/>	City Council
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	

Estimated Cost:	\$464,480	Budgeted:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> X	<input type="checkbox"/> NO	<input type="checkbox"/>
-----------------	-----------	-----------	------------------------------	---------------------------------------	-----------------------------	--------------------------

If NO, please explain how item will be funded:

**Executive Summary:**

Purchasing went out for bids and received six responses for a new substation transformer. This 25MVA transformer will replace a unit at Prairie Street Substation that is beyond normal life expectancy and failed a condition assessment test last year. CG Power Systems, which builds this size transformer at a plant in Washington, Missouri, has provided transformers to the City in past years, namely the units at RR Donnelley and at Red Gate Bridge. We have not had any maintenance or reliability issues with CG Power Systems, and they have a fine reputation in the industry. CG Power Systems met all bid requirements and their proposal offered the lowest life-of-unit cost of the bids received. There was one bid that was lower first cost by approximately \$1,500, but the unit was to be built in Mexico and our specification calls for transformers to be manufactured in the U.S. The CG proposal did offer the lowest total ownership when efficiency losses were evaluated.

**Attachments:** *(please list)*

Bid tabulation

**Recommendation / Suggested Action** *(briefly explain):*

Recommendation to approve purchase order to CG Power Systems in the amount of \$464,480.

*For office use only:*

*Agenda Item Number: 4.e*

**EXHIBIT A**

**Bid Evaluation  
Substation 6 Transformer T1**

<b>Name of Bidder:</b>	<b>ABB</b>	<b>Waukesha Electric Systems</b>	<b>Howard</b>	<b>Delta Star</b>	<b>CG Power Systems</b>	<b>WEG Transformers</b>
<b>Item Description</b>						
<b>Representative:</b>	T & D Products	Waukesha Electric	Howard	Delta Star	PowerOne, Inc.	WEG Electric Corp.
<b>Manufacturer:</b>	ABB	Waukesha Electric	Howard	Delta Star	CG Power	Transformer Dept.
<b>Delivery:</b>						
Date of Delivery In Place on Pad	28-34 Weeks	20-24 Weeks	26 Weeks	40-46 weeks	42-44 weeks	30-32 weeks
<b>Unit Cost of Losses:</b>						
No Load Losses Evaluated at \$/kW	\$ 3,990.00	\$ 3,990.00	\$ 3,990.00	\$ 3,990.00	\$ 3,990.00	\$ 3,990.00
Full Load and Auxiliary Losses Evaluated at \$/kW	\$ 1,300.00	\$ 1,300.00	\$ 1,300.00	\$ 1,300.00	\$ 1,300.00	\$ 1,300.00
<b>Guaranteed Losses from the Proposal Form:</b>						
No Load Losses (kW)	11.36	12.5	13.35	11.7	11.8	11
Total Losses - 55 Deg C rise (kW)	68.39	66.5	63.25	58.9	65.3	75
Auxiliary Losses (kW)	4.2	5.4	2	2	2.4	2.5
<b>Evaluated Costs:</b>						
Total Bid Cost	\$ 594,515.00	\$ 587,854.00	\$ 655,000.00	\$ 542,472.00	\$ 464,480.00	\$ 463,000.00
Adjustments to Bid Cost						
Lifecycle Cost of Losses	\$ 139,693.40	\$ 143,345.00	\$ 138,091.50	\$ 125,853.00	\$ 135,092.00	\$ 144,640.00
Cost of Additional Overseas Inspections						
Waranty Adjustment						
<b>TOTAL EVALUATED COST:</b>	<b>\$ 734,208.40</b>	<b>\$ 731,199.00</b>	<b>\$ 793,091.50</b>	<b>\$ 668,325.00</b>	<b>\$ 599,572.00</b>	<b>\$ 607,640.00</b>
Exception taken to any portion of the specification	None	None	None	None	None	<b>Exception to US built</b>