



**CITY OF LODI
COUNCIL COMMUNICATION**

AGENDA TITLE: Adopt Resolution Approving Purchase of Padmount Transformers from HEES Enterprises, Inc., of Astoria, Oregon (\$201,469.68)

MEETING DATE: June 5, 2013

PREPARED BY: Electric Utility Director

RECOMMENDED ACTION: Adopt a resolution approving the purchase of padmount transformers from HEES Enterprises, Inc., of Astoria, Oregon in the amount of \$201,469.68.

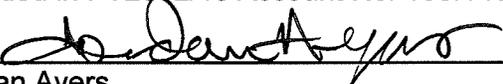
BACKGROUND INFORMATION: On May 1, 2013 the City Council authorized the advertisement of bids to procure padmount transformers to maintain inventory for replacement of damaged/old transformers in the distribution system.

On May 16, 2013, bids were opened with five suppliers submitting proposals. Life-cycle costs (total purchase price plus cost of estimated power loss during the projected life of the transformer) were evaluated as shown on the attached summary of Exhibit A. HEES Enterprises, Inc. of Astoria, Oregon submitted responsive bids with the lowest life-cycle cost as shown below:

7 each	37.5 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$11,203.92
10 each	50 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$18,338.40
15 each	75 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$34,117.20
6 each	100 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$15,655.68
1 each	167 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$ 3,341.52
4 each	500 kVA, 3-Phase	277/480 V	HEES Enterprises, Inc.	\$40,716.00
4 each	1500 kVA, 3-Phase	277/480 V	HEES Enterprises, Inc.	\$78,096.96

FISCAL IMPACT: Procurement cost is \$201,469.68. Life-cycle cost is \$353,132.18.

FUNDING: Included in FY2012/13 Account No. 160.1496



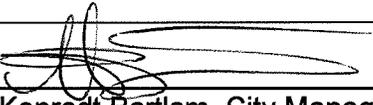
 Jordan Ayers
 Deputy City Manager/Internal Services Director



 Elizabeth A. Kirkley
 Electric Utility Director

PREPARED BY: Thomas Dean, Electric Materials Technician
 EAK/TD/lst

APPROVED:



 Konradt Bartlam, City Manager

PAD MOUNTED TRANSFORMER OFFER EVALUATION - May 20, 2013													EXHIBIT A			
Transformer Offer Evaluation				Bid Offered				May 16, 2013								
Polemount				Tax (factor): 1.08				Primary Winding: 12,000 Volt Line-to-Line								
				No Load Loss \$/watt: 3.75												
				Load Loss \$/watt: 1.25												
Bid Item 1: 37.5 kVA 120/240 Volt, Single Phase													Number of units: 7			
													No Load Loss			
													Load Loss			
Vendor	Unit	Extended Price	Price w/tax	Loss (watts)	Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses	Life Cycle Cost	Delivery (weeks)	Height (inches)	Weight (pounds)				
Silicon	Howard Industries	\$1,480.00	\$10,360.00	\$11,188.80	97	376	\$2,546.25	\$3,290.00	\$5,836.25	\$17,025.05	6-8 wks	32				
Silicon	CG Power Systems USA	No Quote														
Silicon	HEES Enterprises	\$1,482.00	\$10,374.00	\$11,203.92	88	342	\$2,310.00	\$2,992.50	\$5,302.50	\$16,506.42	8-10 wks	28				
Silicon	HD Supply Power Solutions	\$1,504.00	\$10,528.00	\$11,370.24	80	451	\$2,100.00	\$3,946.25	\$6,046.25	\$17,416.49	8 wks	26				
Silicon	Pacific Utilites Supply	\$1,951.00	\$13,657.00	\$14,749.56	79	387	\$2,073.75	\$3,386.25	\$5,460.00	\$20,209.56	6-8 wks	TBP				
Amorphous	Howard Industries	\$1,730.00	\$12,110.00	\$13,078.80	35	452	\$918.75	\$3,955.00	\$4,873.75	\$17,952.55	8-10 wks	32				
Bid Item 2: 50 kVA, 120/240 Volt, Single Phase													Number of units: 10			
													No Load Loss			
													Load Loss			
Vendor	Unit	Extended Price	Price w/tax	Loss (watts)	Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses	Life Cycle Cost	Delivery (weeks)	Height (inches)	Weight (pounds)				
Silicon	Howard Industries	\$1,661.00	\$16,610.00	\$17,938.80	115	448	\$4,312.50	\$5,600.00	\$9,912.50	\$27,851.30	6-8 wks	32.0				
Silicon	CG Power Systems USA	No Quote														
Silicon	HEES Enterprises	\$1,698.00	\$16,980.00	\$18,338.40	115	374	\$4,312.50	\$4,675.00	\$8,987.50	\$27,325.90	8-10 wks	28.0				
Silicon	HD Supply Power Solutions	\$1,615.00	\$16,150.00	\$17,442.00	97	562	\$3,637.50	\$7,025.00	\$10,662.50	\$28,104.50	8 wks	26.0				
Silicon	Pacific Utilites Supply	\$2,098.00	\$20,980.00	\$22,658.40	107	410	\$4,012.50	\$5,125.00	\$9,137.50	\$31,795.90	6-8 wks	TBP				
Amorphous	Howard Industries	\$1,976.00	\$19,760.00	\$21,340.80	47	468	\$1,762.50	\$5,850.00	\$7,612.50	\$28,953.30	8-10 wks	32				
Bid Item 3: 75 kVA, 120/240 Volt, Single Phase													Number of units: 15			
													No Load Loss			
													Load Loss			
Vendor	Unit	Extended Price	Price w/tax	Loss (watts)	Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses	Life Cycle Cost	Delivery (weeks)	Height (inches)	Weight (pounds)				
Silicon	Howard Industries	\$2,037.00	\$30,555.00	\$32,999.40	149	662	\$8,381.25	\$12,412.50	\$20,793.75	\$53,793.15	6-8 wks	32.0				
Silicon	CG Power Systems USA	No Quote														
Silicon	HEES Enterprises	\$2,106.00	\$31,590.00	\$34,117.20	145	584	\$8,156.25	\$10,950.00	\$19,106.25	\$53,223.45	8-10 wks	28.0				
Silicon	HD Supply Power Solutions	\$2,035.00	\$30,525.00	\$32,967.00	130	756	\$7,312.50	\$14,175.00	\$21,487.50	\$54,454.50	8 wks	29.0				
Silicon	Pacific Utilites Supply	\$2,377.00	\$36,655.00	\$38,507.40	123	612	\$6,918.75	\$11,475.00	\$18,393.75	\$56,901.15	6-8 wks	TBP				
Amorphous	Howard Industries	\$2,405.00	\$36,075.00	\$38,961.00	61	691	\$3,431.25	\$12,956.25	\$16,387.50	\$55,348.50	8-10 wks	32				
Bid Item 4: 100 kVA, 120/240 Volt, Single Phase													Number of units: 6			
													No Load Loss			
													Load Loss			
Vendor	Unit	Extended Price	Price w/tax	Loss (watts)	Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses	Life Cycle Cost	Delivery (weeks)	Height (inches)	Weight (pounds)				
Silicon	Howard Industries	\$2,486.00	\$14,916.00	\$16,109.28	195	801	\$4,387.50	\$6,007.50	\$10,395.00	\$26,504.28	6-8 wks	32.0				
Silicon	CG Power Systems USA	No Quote														
Silicon	HEES Enterprises	\$2,416.00	\$14,496.00	\$15,655.68	179	724	\$4,027.50	\$5,430.00	\$9,457.50	\$25,113.18	8-10 wks	28.0				
Silicon	HD Supply Power Solutions	\$2,490.00	\$14,940.00	\$16,135.20	189	814	\$4,252.50	\$6,105.00	\$10,357.50	\$26,492.70	8 wks	29.0				
Silicon	Pacific Utilites Supply	\$2,574.00	\$15,444.00	\$16,679.52	147	924	\$3,307.50	\$6,930.00	\$10,237.50	\$26,917.02	6-8 wks	TBP				
Amorphous	Howard Industries	\$2,419.00	\$14,514.00	\$15,675.12	70	837	\$1,575.00	\$6,277.50	\$7,852.50	\$23,527.62	8-10 wks	28				
Bid Item 5: 167 kVA, 120/240 Volt, Single Phase													Number of units: 1			
													No Load Loss			
													Load Loss			
Vendor	Unit	Extended Price	Price w/tax	Loss (watts)	Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses	Life Cycle Cost	Delivery (weeks)	Height (inches)	Weight (pounds)				
Silicon	Howard Industries	\$4,075.00	\$4,075.00	\$4,401.00	281	1240	\$1,053.75	\$1,550.00	\$2,603.75	\$7,004.75	6-8 wks	32.0				
Silicon	CG Power Systems USA	No Quote														
Silicon	HEES Enterprises	\$3,094.00	\$3,094.00	\$3,341.52	257	1312	\$963.75	\$1,640.00	\$2,603.75	\$5,945.27	8-10 wks	32.0				
Silicon	HD Supply Power Solutions	\$3,584.00	\$3,584.00	\$3,870.72	251	1454	\$941.25	\$1,817.50	\$2,758.75	\$6,629.47	8 wks	40.0				
Silicon	Pacific Utilites Supply	\$3,308.00	\$3,308.00	\$3,572.64	244	1354	\$915.00	\$1,692.50	\$2,607.50	\$6,180.14	6-8 wks	TBP				
Amorphous	Howard Industries	\$4,540.00	\$4,540.00	\$4,903.20	108	1388	\$405.00	\$1,735.00	\$2,140.00	\$7,043.20	8-10 wks	32				
Bid Item 6: 500 kVA, 277/480 Volt, Three Phase													Number of units: 4			
													No Load Loss			
													Load Loss			
Vendor	Unit	Extended Price	Price w/tax	Loss (watts)	Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses	Life Cycle Cost	Delivery (weeks)	Height (inches)	Weight (pounds)				
Silicon	Howard Industries	\$10,999.00	\$43,996.00	\$47,515.68	849	3501	\$12,735.00	\$17,505.00	\$30,240.00	\$77,755.68	6-8 wks	67.0				
Silicon	CG Power Systems USA	\$10,048.00	\$40,192.00	\$43,407.36	805	3939	\$12,075.00	\$19,695.00	\$31,770.00	\$75,177.36	8-10 wks	62.0				
Silicon	HEES Enterprises	\$9,425.00	\$37,700.00	\$40,716.00	793	3186	\$11,895.00	\$15,930.00	\$27,825.00	\$68,541.00	8-10 wks	49.0				
Silicon	HD Supply Power Solutions	\$13,059.00	\$52,236.00	\$56,414.88	783	3601	\$11,745.00	\$18,005.00	\$29,750.00	\$86,164.88	16 wks	59.0				
Silicon	Pacific Utilites Supply	\$14,047.00	\$56,188.00	\$60,683.04	691	2856	\$10,365.00	\$14,280.00	\$24,645.00	\$85,328.04	6-8 wks	TBP				
Amorphous	Howard Industries	\$12,965.00	\$51,860.00	\$56,008.80	338	3504	\$5,070.00	\$17,520.00	\$22,590.00	\$78,598.80	8-10 wks	65				
Bid Item 7: 1500 kVA, 277/480 Volt, Three Phase													Number of units: 4			
													No Load Loss			
													Load Loss			
Vendor	Unit	Extended Price	Price w/tax	Loss (watts)	Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses	Life Cycle Cost	Delivery (weeks)	Height (inches)	Weight (pounds)				
Silicon	Howard Industries	\$20,710.00	\$82,840.00	\$89,467.20	1935	8762	\$29,025.00	\$43,810.00	\$72,835.00	\$162,302.20	8-10 wks	71.0				
Silicon	CG Power Systems USA	\$19,941.00	\$79,764.00	\$86,145.12	1655	10769	\$24,825.00	\$53,845.00	\$78,670.00	\$164,815.12	8-10 wks	78.0				
Silicon	HEES Enterprises	\$18,078.00	\$72,312.00	\$78,096.96	1883	10027	\$28,245.00	\$50,135.00	\$78,380.00	\$156,476.96	8-10 wks	63.0				
Silicon	HD Supply Power Solutions	\$33,283.00	\$133,132.00	\$143,782.56	1486	10710	\$22,290.00	\$53,550.00	\$75,840.00	\$219,622.56	16 wks	73.0				
Silicon	Pacific Utilites Supply	\$22,708.00	\$90,832.00	\$98,098.56	1457	9026	\$21,855.00	\$45,130.00	\$66,985.00	\$165,083.56	8-10 wks	TBP				
Amorphous	Howard Industries	\$23,858.00	\$95,432.00	\$103,066.56	736	9771	\$11,040.00	\$48,855.00	\$59,895.00	\$162,961.56	0-12 wks	75				
Summary																
HEES Enterprises, Inc. (ERMCO Transformers)				201,469.68								353,132.18				
				201,469.68								353,132.18				
BSU Account No.106.1496																
Prepared by: Jules L. Marchesseault																
Manager, Engineering & Operations																

RESOLUTION NO. 2013-94

A RESOLUTION OF THE LODI CITY COUNCIL
APPROVING THE PURCHASE OF PADMOUNT
TRANSFORMERS FROM HEES ENTERPRISES,
INC., OF ASTORIA, OREGON

WHEREAS, in answer to notice duly published in accordance with law and the order of this City Council, sealed bids were received and publicly opened on May 16, 2013, at 11:00 a.m., for the purchase of padmount transformers, described in the specifications therefore approved by the City Council on May 1, 2013; and

WHEREAS, said bids have been compared as to life-cycle costs, checked, and tabulated as shown on Exhibit A attached; and

WHEREAS, the bids meeting the City's specifications with the lowest estimated life-cycle costs are shown below:

7 each	37.5 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$11,203.92
10 each	50 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$18,338.40
15 each	75 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$34,117.20
6 each	100 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$15,655.68
1 each	167 kVA, 1-Phase	120/240 V	HEES Enterprises, Inc.	\$ 3,341.52
4 each	500 kVA, 3-Phase	277/480 V	HEES Enterprises, Inc.	\$40,716.00
4 each	1500 kVA, 3-Phase	277/480 V	HEES Enterprises, Inc.	\$78,096.96

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council does hereby authorize the purchase of padmount transformers, as shown above, in the amount of \$201,469.68.

Dated: June 5, 2013

I hereby certify that Resolution No. 2013-94 was passed and adopted by the City Council of the City of Lodi in a regular meeting held June 5, 2013, by the following vote:

AYES: COUNCIL MEMBERS – Hansen, Johnson, Katzakian, Mounce,
and Mayor Nakanishi

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – None


RANDI JOHL
City Clerk

PAD MOUNTED TRANSFORMER OFFER EVALUATION - May 20, 2013													EXHIBIT A		
Transformer Offer Evaluation			Bid Offered						May 16, 2013						
Polemount			Tax (factor): 1.08			Primary Winding:			12,000 Volt Line-to-Line						
			No Load Loss \$/watt: 3.75												
			Load Loss \$/watt: 1.25												
Bid Item 1: 37.5 kVA, 120/240 Volt, Single Phase													Number of units: 7		
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Weight (pounds)			
Silicon	Howard Industries	\$1,480.00	\$10,360.00	\$11,188.80	97	376	\$2,546.25	\$3,290.00	\$5,836.25	\$17,025.05	6-8 wks	32			
Silicon	CG Power Systems USA	No Quote													
Silicon	HEES Enterprises	\$1,482.00	\$10,374.00	\$11,203.92	88	342	\$2,310.00	\$2,992.50	\$5,302.50	\$16,506.42	8-10 wks	28			
Silicon	HD Supply Power Solutions	\$1,504.00	\$10,528.00	\$11,370.24	80	451	\$2,100.00	\$3,946.25	\$6,046.25	\$17,416.49	8 wks	26			
Silicon	Pacific Utilities Supply	\$1,951.00	\$13,657.00	\$14,749.56	79	387	\$2,073.75	\$3,386.25	\$5,460.00	\$20,209.56	6-8 wks	TBP			
Amorphous	Howard Industries	\$1,730.00	\$12,110.00	\$13,078.80	35	452	\$918.75	\$3,955.00	\$4,873.75	\$17,952.55	8-10 wks	32			
Bid Item 2: 50 kVA, 120/240 Volt, Single Phase													Number of units: 10		
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Weight (pounds)			
Silicon	Howard Industries	\$1,661.00	\$16,610.00	\$17,938.80	115	448	\$4,312.50	\$5,600.00	\$9,912.50	\$27,851.30	6-8 wks	32.0			
Silicon	CG Power Systems USA	No Quote													
Silicon	HEES Enterprises	\$1,698.00	\$16,980.00	\$18,336.40	115	374	\$4,312.50	\$4,675.00	\$8,987.50	\$27,325.90	8-10 wks	28.0			
Silicon	HD Supply Power Solutions	\$1,615.00	\$16,150.00	\$17,442.00	97	662	\$3,637.50	\$7,025.00	\$10,662.50	\$28,104.50	8 wks	26.0			
Silicon	Pacific Utilities Supply	\$2,098.00	\$20,980.00	\$22,658.40	107	410	\$4,012.50	\$5,125.00	\$9,137.50	\$31,795.90	6-8 wks	TBP			
Amorphous	Howard Industries	\$1,976.00	\$19,760.00	\$21,340.80	47	468	\$1,762.50	\$5,850.00	\$7,612.50	\$28,953.30	6-10 wks	32			
Bid Item 3: 75 kVA, 120/240 Volt, Single Phase													Number of units: 15		
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Weight (pounds)			
Silicon	Howard Industries	\$2,037.00	\$30,555.00	\$32,999.40	149	662	\$8,381.25	\$12,412.50	\$20,793.75	\$53,793.15	6-8 wks	32.0			
Silicon	CG Power Systems USA	No Quote													
Silicon	HEES Enterprises	\$2,106.00	\$31,590.00	\$34,117.20	145	584	\$8,156.25	\$10,950.00	\$19,106.25	\$53,223.45	6-10 wks	28.0			
Silicon	HD Supply Power Solutions	\$2,035.00	\$30,525.00	\$32,967.00	130	756	\$7,312.50	\$14,175.00	\$21,487.50	\$54,454.50	8 wks	29.0			
Silicon	Pacific Utilities Supply	\$2,377.00	\$35,655.00	\$38,507.40	123	612	\$8,918.75	\$11,475.00	\$18,393.75	\$56,901.15	6-8 wks	TBP			
Amorphous	Howard Industries	\$2,405.00	\$36,075.00	\$38,961.00	61	691	\$3,431.25	\$12,956.25	\$16,387.50	\$55,348.50	8-10 wks	32			
Bid Item 4: 100 kVA, 120/240 Volt, Single Phase													Number of units: 6		
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Weight (pounds)			
Silicon	Howard Industries	\$2,486.00	\$14,916.00	\$16,109.28	195	801	\$4,387.50	\$6,007.50	\$10,395.00	\$26,504.28	6-8 wks	32.0			
Silicon	CG Power Systems USA	No Quote													
Silicon	HEES Enterprises	\$2,416.00	\$14,496.00	\$15,655.68	179	724	\$4,027.50	\$5,430.00	\$9,457.50	\$25,113.18	8-10 wks	28.0			
Silicon	HD Supply Power Solutions	\$2,490.00	\$14,940.00	\$16,135.20	189	814	\$4,252.50	\$6,105.00	\$10,357.50	\$26,492.70	8 wks	29.0			
Silicon	Pacific Utilities Supply	\$2,574.00	\$15,444.00	\$16,679.52	147	924	\$3,307.50	\$6,930.00	\$10,237.50	\$26,917.02	6-8 wks	TBP			
Amorphous	Howard Industries	\$2,419.00	\$14,514.00	\$15,675.12	70	837	\$1,575.00	\$6,277.50	\$7,852.50	\$23,527.62	8-10 wks	28			
Bid Item 5: 167 kVA, 120/240 Volt, Single Phase													Number of units: 1		
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Weight (pounds)			
Silicon	Howard Industries	\$4,075.00	\$4,075.00	\$4,401.00	281	1240	\$1,053.75	\$1,550.00	\$2,603.75	\$7,004.75	6-8 wks	32.0			
Silicon	CG Power Systems USA	No Quote													
Silicon	HEES Enterprises	\$3,094.00	\$3,094.00	\$3,341.52	257	1312	\$963.75	\$1,640.00	\$2,603.75	\$5,945.27	8-10 wks	32.0			
Silicon	HD Supply Power Solutions	\$3,584.00	\$3,584.00	\$3,870.72	251	1454	\$941.25	\$1,817.50	\$2,758.75	\$6,629.47	8 wks	40.0			
Silicon	Pacific Utilities Supply	\$3,308.00	\$3,308.00	\$3,572.64	244	1354	\$915.00	\$1,692.50	\$2,607.50	\$6,180.14	6-8 wks	TBP			
Amorphous	Howard Industries	\$4,540.00	\$4,540.00	\$4,903.20	108	1388	\$405.00	\$1,735.00	\$2,140.00	\$7,043.20	8-10 wks	32			
Bid Item 6: 500 kVA, 277/480 Volt, Three Phase													Number of units: 4		
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Weight (pounds)			
Silicon	Howard Industries	\$10,999.00	\$43,996.00	\$47,515.68	949	3501	\$12,735.00	\$17,505.00	\$30,240.00	\$77,755.68	6-8 wks	67.0			
Silicon	CG Power Systems USA	\$10,048.00	\$40,192.00	\$43,407.36	805	3939	\$12,075.00	\$19,695.00	\$31,770.00	\$75,177.36	8-10 wks	62.0			
Silicon	HEES Enterprises	\$9,425.00	\$37,700.00	\$40,716.00	793	3186	\$11,895.00	\$15,930.00	\$27,825.00	\$68,541.00	8-10 wks	49.0			
Silicon	HD Supply Power Solutions	\$13,059.00	\$52,236.00	\$56,414.88	783	3601	\$11,745.00	\$18,005.00	\$29,750.00	\$86,164.88	16 wks	59.0			
Silicon	Pacific Utilities Supply	\$14,047.00	\$56,188.00	\$60,683.04	691	2858	\$10,365.00	\$14,280.00	\$24,645.00	\$85,328.04	6-8 wks	TBP			
Amorphous	Howard Industries	\$12,965.00	\$51,860.00	\$56,008.80	338	3504	\$5,070.00	\$17,520.00	\$22,590.00	\$78,598.80	8-10 wks	65			
Bid Item 7: 1500 kVA, 277/480 Volt, Three Phase													Number of units: 4		
Vendor	Unit Price \$	Extended Price \$	Price w/tax \$	No Load Loss (watts)	Load Loss (watts)	No Load Loss value	Load Loss value	Cost of Losses \$	Life Cycle Cost \$	Delivery (weeks)	Height (inches)	Weight (pounds)			
Silicon	Howard Industries	\$20,710.00	\$82,840.00	\$89,467.20	1935	8762	\$29,025.00	\$43,810.00	\$72,835.00	\$162,302.20	8-10 wks	71.0			
Silicon	CG Power Systems USA	\$19,841.00	\$79,764.00	\$86,145.12	1855	10769	\$24,825.00	\$53,845.00	\$78,670.00	\$164,815.12	8-10 wks	78.0			
Silicon	HEES Enterprises	\$18,078.00	\$72,312.00	\$78,096.96	1883	10027	\$28,245.00	\$50,135.00	\$78,380.00	\$156,476.96	8-10 wks	63.0			
Silicon	HD Supply Power Solutions	\$33,283.00	\$133,132.00	\$143,782.56	1486	10710	\$22,290.00	\$53,550.00	\$75,840.00	\$219,622.56	16 wks	73.0			
Silicon	Pacific Utilities Supply	\$22,708.00	\$90,832.00	\$98,098.56	1457	9026	\$21,855.00	\$45,130.00	\$66,985.00	\$185,083.56	8-10 wks	TBP			
Amorphous	Howard Industries	\$23,858.00	\$95,432.00	\$103,066.56	736	9771	\$11,040.00	\$48,855.00	\$59,895.00	\$162,981.56	0-12 wks	75			
Summary															
HEES Enterprises, Inc. (ERMCO Transformers)			201,469.68						353,132.18						
			201,469.68						353,132.18						
Prepared by: Jules L. Marchesseault Manager, Engineering & Operations															
BSU Account No.106.1496															