

COUNCIL ACTION FORM

SUBJECT: AWARD OF CONTRACT FOR SPECIALIZED CLEANING SERVICES, INCLUDING GRIT BLASTING, HYDRO BLASTING, DETONATION BLASTING, AND VAC TRUCK SERVICE FOR CITY OF AMES POWER PLANT BOILERS

BACKGROUND:

The City of Ames Electric Utility has two coal-fired boilers, high-pressure steam generation units within the City of Ames Power Plant, referred to as Unit No. 7 and Unit No. 8. These units require regular professional maintenance and repair. This consists of emergency service, as well as regularly scheduled planned repairs. The repair of the boilers on these generation units requires professional trade crafts such as boilermakers; steam/pipe fitters; and millwrights, to list a few.

The boiler units operate under environmental conditions with high heat and high pressure. Due to the operational conditions and fuel burned, the internal surfaces of the boilers are often covered with hardened ash, molten glass, and other substances, which coat the internal boiler tubes, and boiler walls. Because of the conditions resulting from burning the RDF (reducing atmosphere and the presence of chlorides which come from burning plastics) parts of the boiler units will fail due to tube wasting. Examples include superheat tube, boiler wall tube, and boiler grate failures. When this occurs, the City contracts with private firms which have expert staff on hand to perform the emergency repairs needed to bring the unit(s) back into operation. Prior to the professional crafts entering the boilers to carryout inspections and repairs, the surfaces must be cleaned of this debris. This cleaning process requires high-pressure water washing, grit blasting, or explosives to loosen and remove the materials. After loosening or breaking up these substances they are removed from the boiler using the sluice system or by large industrial vacuums.

This contract is to provide specialized cleaning services, including grit blasting, hydro blasting, detonation blasting, and vac truck services for the Power Plant boilers for the period of July 1, 2009, through June 30, 2010. The contract includes a provision that would allow the City to renew the contract for up to five additional one-year terms.

On May 27, 2009, bids were received from two firms as shown on Attachment A. Attachment B shows a cost evaluation based on a sampling of personnel and equipment the Power Plant requires for successful fulfillment of this service contract. Because travel related cost components vary between the bids, an additional evaluation was performed to provide a more realistic overall cost including the travel and per-diem cost components. This additional evaluation was accomplished by inserting bidders'

prices for resources required on typical service scenarios performed for both Unit 7 and 8 at the Power Plant. Attachment C contains this cost evaluation in a multiple scenario format for services. The scenario formats are based on hours for: detonation blasting, hydroblasting, grit blasting for the boilers, grit blasting for the precipitator, and vacuuming with an operator.

Based on the summation of all of the typical services, the bid submitted by W-S Industrial Services, Inc., Council Bluffs, IA, is the lowest bid.

The approved FY2009/2010 operating budget for Electric Production includes \$231,000 for boiler cleaning services to be performed under this contract. Payments would be calculated on unit prices bid and actual work performed.

ALTERNATIVES:

1. Award a contract for the FY2009-2010 specialized cleaning services contract, including grit blasting, hydro blasting, detonation blasting, and vac truck services, to W-S Industrial Services, Inc., Council Bluffs, IA, for hourly rates and unit prices bid, in an amount not to exceed \$231,000. The contract includes a provision that would allow the City to renew the contract for up to five additional one-year terms.
2. Award a contract for the FY2009-2010 specialized cleaning services contract, including grit blasting, hydro blasting, detonation blasting, and vac truck services, to Meylan Enterprises, Inc., Omaha, Nebraska, for hourly rates and unit prices bid, in an amount not to exceed \$231,000. The contract includes a provision that would allow the City to renew the contract for up to five additional one-year terms.
3. Reject all bids and purchase specialized boiler cleaning services on an as-needed basis.

MANAGER'S RECOMMENDED ACTION:

This work is necessary to properly maintain Unit No. 7 and Unit No. 8 and to carry out emergency and scheduled repairs resulting from equipment failures. It is imperative that reliable contractors be available to perform these specialized cleaning services on very short notice in the event of an emergency repair. It is also important to control the costs of these services to the extent possible.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, awarding a contract for the FY2009-2010 specialized cleaning services, including grit blasting, hydro blasting, detonation blasting, and vac truck services, to W-S Industrial Services, Inc., Council Bluffs, IA, for hourly rates and unit prices bid, in an amount not to exceed \$231,000. The contract includes a provision that would allow the City to renew the contract for up to five additional one-year terms.

W-S Industrial Services, Inc. Council Bluffs, Iowa		Meylan Enterprises, Inc. Omaha, NE 68117			
GRIT BLASTING AND HYDRO BLASTING:					
DESCRIPTION	Hourly Rate (ST)	Hourly Rate	Hourly Rate (ST)	Hourly Rate	Hourly Rate
Superintendent	\$ 40.00		\$ 55.00	\$ 60.00	\$ 71.40
General Foreman	\$ 35.00		\$ 38.00	\$ 49.95	\$ 62.90
Foreman	\$ 30.00		\$ 38.00	\$ 49.95	\$ 62.90
Journeyman	\$ 30.00		\$ 38.00	\$ 49.95	\$ 62.90
Laborers	NA		\$ 29.00	\$ 39.15	\$ 55.00
Standby			FC	FC	FC
Material Costs:					
Grit blasting subcontractor Cost +15%					
Cost Plus					
15%					

Subsistence: Amount Per Day					
Superintendent	\$	70.00	\$		85.00
General Foreman	\$	70.00	\$		85.00
Foreman	\$	70.00	\$		85.00
Journeyman	\$	70.00	\$		85.00
Laborers		NA	\$		85.00
Standby	\$	70.00	\$		85.00
Operator \$85.00 per Day					

Travel and Mileage: Amount Per Mile					
Superintendent travel	\$	0.30	\$		
Superintendent mileage		N/A	\$		0.50
General foreman travel	\$	0.30	\$		
General foreman mileage		N/A	\$		0.50
Foreman travel	\$	0.30	\$		
Foreman mileage		N/A	\$		0.50
Journeyman travel	\$	0.25	\$		
Journeyman mileage		N/A	\$		
Laborers travel	\$		\$		
Laborers mileage	\$		\$		0.50
Standby travel	\$		\$		
Standby mileage	\$		\$		
Operator mileage \$.50 per mile					

W-S Industrial Services, Inc. Council Bluffs, Iowa		Meylan Enterprises, Inc. NE 68117		Omaha,		
DETONATION BLASTING:						
DESCRIPTION	Daily Rate (ST)	Daily Rate (OT)	Daily Rate (DT)	Daily Rate (ST)	Daily Rate (OT)	Daily Rate (DT)
Hours per day (10 hrs. or 12 hrs)	12 hours			\$ 5,100.00	\$ 5,100.00	\$ 5,100.00
Number of crew members	3			4	4	4
Explosive Specialist				\$ 1,080.00	\$ 1,080.00	\$ 1,080.00
Explosive Foreman	\$ 98.00			\$ 999.96	\$ 999.96	\$ 999.96
Foreman				\$ 999.96	\$ 999.96	\$ 999.96
Journeyman	\$ 90.00			See additional laborer cost below		
Operator				\$ 759.96	\$ 759.96	\$ 759.96
Lancemen				\$ 570.00	\$ 570.00	\$ 570.00
Drop charge (safe)	N/A			Cost + 15%		
				Additional Laborer \$450.00 per day (ST, OT, DT all same)		

Subsistence:	
Superintendent	\$ 85.00 per day
General Foreman	\$ 70.00 per day
Foreman	\$ 85.00 per day
Journeyman	\$ 70.00 per day
Operator	
Lancemen	\$ 85.00 per day

Travel and Mileage:	
Superintendent travel	
Superintendent mileage	\$.50 per mile
General foreman travel	\$.30 per mile
General foreman mileage	
Foreman travel	
Foreman mileage	\$.50 per mile
Journeyman travel	\$.30 per mile
Journeyman mileage	
Operator travel	
Operator mileage	
Lancemen travel	
Lancemen mileage	\$.50 per mile
Magazine mileage \$2.50 per mile	

W-S Industrial Services, Inc. Council Bluffs, Iowa		Meylan Enterprises, Inc. NE 68117		Omaha,	
EQUIPMENT:					
DESCRIPTION	Per Hour	Per Day	Per Hour	Per Day	Per Day
Grit blasting comp, grit pot, hoses	\$ 330.00		\$ 350.00	\$ 4,200.00	
Hydro blast 20k pump and hoses	\$ 110.00		\$ 200.00	\$ 2,400.00	
Hydro blast 10k pump and hoses	\$ 95.00		\$ 175.00	\$ 2,100.00	
Hydro blast 10 k plus auto head	\$ 360.00		\$ 400.00	\$ 4,800.00	
Hydro blast straight tips	N/A		\$ 10.00	\$ 120.00	
Hydro blast spin tips	N/A		\$ 25.00	\$ 300.00	
Vacuum truck w/ operator	\$ 95.00		\$ 118.00	\$ 1,416.00	
High pressure pumping service	N/A		\$ 175.00	\$ 2,100.00	
Grit blasting subcontractor Cost +15%					

MISCELLANEOUS:					
DESCRIPTION	Bid Amount	Per	Bid Amount	Per	Per
Mobe and demobe mileage (foreman)	\$	0.30	\$	0.50	Mile
Mobe and demobe mileage	\$	0.30	\$	0.50	Mile
Mobe (personnel)	\$	0.30	\$	0.50	Mile
Mobe & demobe (vac truck)	\$	2.00	\$	1.60	Mile
Mobe & démodé (support vehicle)	\$	1.25	\$	0.80	Mile
Per Diem	\$	70.00	\$	85.00	Day
Explosive material	\$	225.00		See itemized list	each
Blasting nozzles	N/A				each
6" plastic flex hose (ft)	\$	1.50		See itemized list	each
300 hp pump	\$	95.00			each
Pump	N/A				each
High pressure pumping services	N/A				service
Set-up	N/A		\$	350.00	hour
Grit media	cost + 15%		\$	150.00	ton

Proposed price increases for renewal periods (if applicable):			
Description	Increase	Per	Per
Labor Rates:	N/A		5%
Travel & Subsistence	N/A		3%
Equipment & Tools	N/A		3%
			year
			year
			year

GRIT & HYDROBLASTING	Eval Qty	W-S Industrial		Meylan Enterprises	
		Rate	Total	Rate	Total
Superintendent	50	\$40.00	\$2,000.00	\$55.00	\$2,750.00
General Foreman	60	\$35.00	\$2,100.00	\$38.00	\$2,280.00
Foreman	60	\$30.00	\$1,800.00	\$38.00	\$2,280.00
Journeyman	300	\$30.00	\$9,000.00	\$38.00	\$11,400.00
Laborers	50	\$30.00	\$1,500.00	\$29.00	\$1,450.00
Standby	10		\$0.00		\$0.00
SUBTOTAL:			\$16,400.00		\$20,160.00

DETONATION BLASTING	Eval Qty	Rate	Total	Rate	Total
Explosive Specialist	36	\$98.00	\$3,528.00	\$90.00	\$3,240.00
Explosive Foreman	36	\$98.00	\$3,528.00	\$83.33	\$2,999.88
Foreman	100	\$90.00	\$9,000.00	\$83.33	\$8,333.00
Journeyman	500	\$90.00	\$45,000.00	\$47.50	\$23,750.00
Operator	120	\$90.00	\$10,800.00	\$63.33	\$7,599.60
Lancemen	300	\$90.00	\$27,000.00	\$47.50	\$14,250.00
SUBTOTAL:			\$98,856.00		\$60,172.48

EQUIPMENT	Eval Qty	Rate	Total	Rate	Total
Grit blasting comp, grit pot, hoses	60	\$330.00	\$19,800.00	\$350.00	\$21,000.00
Hydro blast 20k pump and hoses	170	\$110.00	\$18,700.00	\$200.00	\$34,000.00
Hydro blast 10k pump and hoses	36	\$95.00	\$3,420.00	\$175.00	\$6,300.00
Hydro blast 10 k plus auto head	36	\$360.00	\$12,960.00	\$400.00	\$14,400.00
Hydro blast straight tips	100	\$0.00	\$0.00	\$10.00	\$1,000.00
Hydro blast spin tips	200	\$0.00	\$0.00	\$25.00	\$5,000.00
Vacuum truck w/ operator	30	\$95.00	\$2,850.00	\$118.00	\$3,540.00
High pressure pumping service	60	\$95.00	\$5,700.00	\$175.00	\$10,500.00
SUBTOTAL:			\$63,430.00		\$95,740.00

Miscellaneous	Eval Qty	Rate	Total	Rate	Total
Mobe and demobe mileage (foreman)	2500	\$0.30	\$750.00	\$0.50	\$1,250.00
Mobe and demobe mileage (Journeyman)	7000	\$0.30	\$2,100.00	\$0.50	\$3,500.00
Mobe (personnel)	1300	\$0.30	\$390.00	\$0.50	\$650.00
Mobe & demobe (vac truck)	400	\$2.00	\$800.00	\$1.60	\$640.00
Mobe & démodé (support vehicle)	1200	\$1.25	\$1,500.00	\$0.80	\$960.00
Per Diem	100	\$70.00	\$7,000.00	\$85.00	\$8,500.00
Explosive material	20	\$225.00	\$4,500.00	\$188.45	\$3,769.00
Blasting nozzles	200		\$0.00		\$0.00
6" plastic flex hose (ft)	100	\$1.50	\$150.00	\$1.90	\$190.00
300 hp pump	10	\$95.00	\$950.00	\$175.00	\$1,750.00
Pump	90		\$0.00		\$0.00
High pressure pumping services	60		\$0.00		\$0.00
Set-up	20	\$0.00	\$0.00	\$350.00	\$7,000.00
Grit media	0		\$0.00	\$150.00	\$0.00
SUBTOTAL:			\$5,600.00		\$12,709.00
GRAND TOTAL:			\$184,286.00		\$188,781.48

	W-S Industrial Services, Inc.		Meylan Enterprises, Inc.	
DETONATION BLASTING	24 Hours (Unit 8)	12 Hours (Unit 7)	24 Hours (Unit 8)	12 Hours (Unit 7)
Specialist x 1	\$2,352.00	\$1,176.00	\$2,160.00	\$1,080.00
Per-Diem	\$70.00		\$85.00	
Travel	\$98.82	\$98.82	\$173.07	\$173.07
Foreman x 1	\$2,352.00	\$1,176.00	\$1,999.92	\$999.96
Per-Diem	\$70.00		\$85.00	
Journeyman x 1	\$6,480.00	\$3,240.00	\$2,700.00	\$1,350.00
Per-Diem	\$210.00		\$255.00	
SUBTOTAL:				
	\$11,632.82	\$5,690.82	\$7,457.99	\$3,603.03

HYDROBLAST	36 Hours (Unit 8)	18 Hours (Unit 7)	36 Hours (Unit 8)	18 Hours (Unit 7)
Superintendent x 1	\$1,440.00	\$720.00	\$1,980.00	\$990.00
Subsistence	\$140.00	\$70.00	\$170.00	\$85.00
Mobilization	\$98.82	\$98.82	\$173.07	\$173.07
Foreman x 1	\$1,080.00	\$540.00	\$1,368.00	\$684.00
Subsistence	\$140.00	\$70.00	\$170.00	\$170.00
Mobilization	\$98.82	\$98.82	\$173.07	\$173.07
Journeyman x 5	\$5,400.00	\$2,700.00	\$6,840.00	\$3,420.00
Subsistence	\$700.00	\$350.00	\$850.00	\$425.00
Mobilization	\$411.75	\$411.75	\$865.85	\$865.85
Laborers x 2	\$2,160.00	\$1,080.00	\$2,088.00	\$1,044.00
Subsistence	\$280.00	\$140.00	\$340.00	\$170.00
Mobilization	\$164.70	\$164.70	\$346.34	\$346.34
20 K Pump & Hose x 1	\$3,960.00	\$1,980.00	\$7,200.00	\$3,600.00
Hydroblast Tips x 25	\$0.00	\$0.00	\$250.00	\$250.00
Spin Tip x 20	\$0.00	\$0.00	\$500.00	\$500.00
Mobe / Demobe	\$411.75	\$411.75	\$277.07	\$277.07
SUBTOTAL:				
	\$16,485.84	\$8,835.84	\$23,591.40	\$13,173.40

GRIT BLASTING FOR BOILER	48 Hours (Unit 8)	24 Hours (Unit 7)	48 Hours (Unit 8)	24 Hours (Unit 7)
Superintendent x 1	\$1,920.00	\$960.00	\$2,640.00	\$1,320.00
Subsistence	\$140.00	\$70.00	\$170.00	\$85.00
Mobilization	\$98.82	\$98.82	\$173.07	\$173.07
Foreman x 1	\$1,440.00	\$720.00	\$1,824.00	\$912.00
Subsistence	\$140.00	\$70.00	\$170.00	\$85.00
Mobilization	\$98.82	\$98.82	\$173.07	\$173.07
Journeyman x 5	\$7,200.00	\$3,600.00	\$9,120.00	\$4,560.00
Subsistence	\$700.00	\$350.00	\$850.00	\$425.00
Mobilization	\$411.75	\$411.75	\$865.85	\$865.85
Laborers x 2	\$2,880.00	\$1,440.00	\$2,784.00	\$1,392.00
Subsistence	\$280.00	\$140.00	\$340.00	\$170.00
Mobilization	\$164.70	\$164.70	\$346.34	\$346.34
Comp, Pot, Hoses x 1	\$15,840.00	\$7,920.00	\$16,800.00	\$8,400.00
Grit Media	\$4,940.00	\$2,470.00	\$3,900.00	\$1,950.00
SUBTOTAL:				
	\$36,254.09	\$18,514.09	\$40,156.33	\$20,857.33

GRIT BLASTING FOR PRECIP	48 Hours (Unit 8)	24 Hours (Unit 7)	48 Hours (Unit 8)	24 Hours (Unit 7)
Superintendent x 1	\$1,440.00	\$720.00	\$1,980.00	\$990.00
Subsistence	\$140.00	\$70.00	\$170.00	\$85.00
Mobilization	\$98.82	\$98.82	\$173.07	\$173.07
Foreman x 1	\$1,080.00	\$540.00	\$1,368.00	\$684.00
Subsistence	\$140.00	\$70.00	\$170.00	\$85.00
Mobilization	\$98.82	\$98.82	\$173.07	\$173.07
Journeyman x 5	\$5,400.00	\$2,700.00	\$6,840.00	\$3,420.00
Subsistence	\$700.00	\$350.00	\$850.00	\$425.00
Mobilization	\$411.75	\$411.75	\$865.85	\$865.85
Laborers x 2	\$2,160.00	\$1,080.00	\$2,088.00	\$1,044.00
Subsistence	\$280.00	\$140.00	\$340.00	\$170.00
Mobilization	\$164.70	\$164.70	\$346.34	\$346.34
Comp, Pot, Hoses x 1	\$11,880.00	\$5,940.00	\$12,600.00	\$6,300.00
Grit Media	\$4,940.00	\$2,470.00	\$3,900.00	\$1,950.00
SUBTOTAL:	\$28,934.09	\$14,854.09	\$31,864.33	\$16,711.33

SUMMARY	UNIT 8	UNIT 7	UNIT 8	UNIT 7
Detonation Blasting	\$11,632.82	\$5,690.82	\$7,457.99	\$3,603.03
Hydroblast	\$16,485.84	\$8,835.84	\$23,591.40	\$13,173.40
Grit Blast w/ Boiler	\$36,254.09	\$18,514.09	\$40,156.33	\$20,857.33
Grit Blast w/ Precip	\$28,934.09	\$14,854.09	\$31,864.33	\$16,711.33
SUBTOTAL:	\$93,306.84	\$47,894.84	\$103,070.05	\$54,345.09

VACUUM W/ OPERATOR	Total
Vacuum w/ Operator x 1	\$2,850.00
Mobe / Demobe	\$658.80
Laborers x 2	\$1,800.00
Subsistence	\$280.00
Mobe / Demobe	\$164.70
Hose x 100 Ft	\$150.00
SUBTOTAL:	\$5,903.50

Total
\$3,540.00
\$553.82
\$1,740.00
\$340.00
\$346.34
\$190.00
\$6,710.16

GRAND TOTAL: \$147,105.18

\$164,125.30