CITY OF VINELAND, NJ

RESOLUTION NO. 2019-307

RESOLUTION AUTHORIZING THE EXECUTION OF A PROFESSIONAL SERVICES AGREEMENT WITH WALDRON ENGINEERING AND CONSTRUCTION, INC. EXECTER, NEW HAMPSHIRE, FOR PROFESSIONAL ENGINEERING SERVICES FOR INTEGRATION OF ULSD FUEL TO CLAYVILLE UNIT OPERATIONS

WHEREAS, the City of Vineland Municipal Electric Utility is in need of professional engineering services for the integration of ULSD fuel to the Clayville Generation Unit as a backup available fuel to operate said unit; and

WHEREAS, Waldron has submitted a proposal for Professional Engineering Services for the City of Vineland in accordance with a fair and open process and was awarded a contract in accordance with Resolution 2019-52, Contract Number C19-0052; and

WHEREAS, Waldron Engineering and Construction, Inc., Exeter, New Hampshire, (Waldron) has been engineer-of-record for the Clayville unit and is familiar with its design; and

WHEREAS, the Director of the Vineland Municipal Utilities has recommended the City award a Professional Services Agreement with Waldron in accordance with Contract Number C19-0052 in an amount not to exceed \$598,000.00; and

WHEREAS, the Chief Financial Officer has certified the availability of funds.

NOW THEREFORE BE IT RESOLVED by the City Council of the City of Vineland as follows:

1. That the Mayor and Clerk are hereby authorized and directed to execute a Professional Services Agreement with Waldron Engineering and Construction, Inc. Exeter, New Hampshire for professional engineering services in accordance with the proposal attached hereto and made a part hereof and in accordance with Contract Number C19-0052 at a cost not to exceed \$598,000.00 together with a contingency of \$59,800.00, should the same be needed for the reasons set forth by the Director of the Municipal Utilities.

Adopted:

President of Council

ATTEST:

City Clerk

REQUEST FOR RESOLUTION FOR CONTRACT AWARDS UNDER 40A:11-5 EXCEPTIONS

(PROFESSIONAL SERVICES, EUS, SOFTWARE MAINTENANCE, ETC)

7/5/2019

(DATE)

1.	Service (detailed description): Engineering Services for Integration of ULSD Fuel to Clayville Unit Operations
2.	Amount to be Awarded: \$ 657,800.00 (see attachment)
	 Encumber Total Award Encumber by Supplemental Release
3.	Amount Budgeted: <u>\$ 700,000.00</u>
4.	Budgeted: By Ordinance No. 2019-32 Or Grant: Title & Year
5.	**Account Number to be Charged: <u>C-06-00-000-1932-72000</u>
6.	Contract Period: 7/23/2019 - 12/31/1020
7.	Date To Be Awarded: 7/23/2019
8.	Recommended Vendor and Address: Waldron Engineering & Construction, Inc.
	37 Industrial Drive, Suite1, Exeter, NH 03883
9.	Justification for Vendor Recommendation:(attach additional information for Council review) Waldron was the Engineer-of-Record for both the Down Unit # 11 and Clayville unit original projects. Additional engineering services for these two operating were provided on an as needed basis. With their experience and familiarity with with our units, their services for this project will be provided at the lowest costs.
	Fair & Open: How was RFP advertised?
10.	Evaluation Performed by: P. Kudless J. Ragsdale
11.	Approved by: T. Dunmore Ullen
12.	Attachments:
	 ✓ Awarding Proposal ✓ Other: Scope of Work (SOW)
• * I1	Send copies to: Purchasing Division Business Administration I more than one account #, provide break down

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N:/agendas/sample/RFP evaluation

Award Breakdown

Cost of Services	\$598,000.00
10% Contingency	\$59,800.00
Total Award	\$657,800.00

VMEU RFP Engineering Services for Integration of Ultra-Low Sulfur Distillate Capability

5. PROJECT COSTS

Waldron Engineering & Construction, Inc. offers the following project cost summary:

Project Controls Breakdown				
Contract Value	\$	598,000		
Project Proposal/Allocation	\$	598,000		
Project Gap		(\$0)		
Base Design Effort				
Discipline	Mai	nhours	Co	st
Mechanical		300	\$	45,790
Civil/Structural		268	\$	43,500
I&C		284	\$	43,780
Electrical		404	\$	60,820
Multidiscipline		142	\$	21,872
Base Design Totals		1,398	\$	215,762
	Mai	nhours	Co	st
Construction Support		272	\$	42,620
Commissioning		60	\$	8,850
Closeout		60	\$	9,220
Non-Design Totals	_	392	\$	60,690
Technical Subcontractors			\$	165,214
Tech Sub w/Fee			\$	165,214
Est. Equivalent MHs		1,271		
Travel/Expenses			\$	9,945
Project Management/Admin		291	\$	68,389
% of Waldron Direct		16%		25%
% of Waldron Direct+Subs		10%		15%

Waldron clarifies that its cost summary is based on the following:

- All total costs are presented as "not-to-exceed"
- All costs associated with City of Vineland/NJ-DEP/NJ-DECA are presented as not-to-exceed based on previous experience with these entities
- Site plan package
- Preliminary and final engineering packages
- Air permit package



VMEU RFP July 3, 2019

VMEU RFP

Engineering Services for Integration of Ultra-Low Sulfur Distillate Capability

- Construction and commissioning bid packages
- Bid evaluations
- All bid documents provided in MS word on media
- All drawings provide in AutoCAD on media, 2 size "D" paper copies
- Contingency represents money that will be spent on unforeseen items
- Additional services will be per rate sheet submitted

Specific Cost items:

- Up to ten (10) paper copies of specific drawing packages will be provided upon request, at no additional charge
- The per meeting cost requested for briefing/city meeting is \$2,100, eight (8) such meetings have been included per RFP
- The milestone payment schedule in %

Invoice Month	% of Total
Aug-19	18%
Sep-19	22%
Oct-19	9%
Nov-19	6%
Dec-19	4%
Jan-20	4%
Feb-20	3%
Mar-20	3%
Apr-20	3%
May-20	3%
Jun-20	3%
Jul-20	3%
Aug-20	4%
Sep-20	4%
Oct-20	5%
Nov-20	6%
Dec-20	0%
Sum	100%



City of Vineland RFQ July 3, 2019

Project Manhour Estimate Recap & Stats

21%

20%

20%

28% 10%

VMEU C1 Fuel Oil Firing

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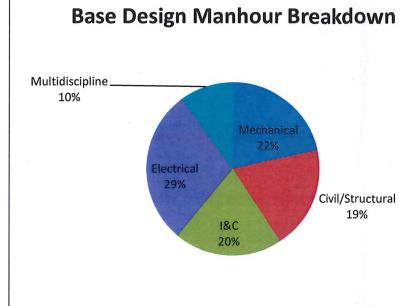
Project Controls Breakdown

Contract Value	\$ 598,000
Project Proposal/Allocation	\$ 598,000
Project Gap	(\$0)

Base Design Effort

				% of Base	е
Discipline	Manhours	Co	st	Manhours Cos	t
Mechanical	300	\$	45,790	21%	
Civil/Structural	268	\$	43,500	19%	
I&C	284	\$	43,780	20%	
Electrical	404	\$	60,820	29%	
Multidiscipline	142	\$	21,872	10%	
Base Design Totals	1,398	\$	215,762		
		Co			
Construction Support	272		-		
Commissioning	60		8,850		
Closeout	60				
Non-Design Totals	392	\$	60,690		
Technical Subcontractors			165,214		
Tech Sub w/Fee	4	Ş	165,214		
Est. Equivalent MHs	1,271				
T		÷	0.045		
Travel/Expenses		\$	9,945		
Project Management/Admin	291	\$	68,389		
% of Waldron Direct	16%	Ŧ	25%		
% of Waldron Direct+Subs	10%		15%		
	10/0		1070		
Project Cost Forecast					
Waldron Eng'g Total Cost %	Forecasted Tota	al F	Project Val	ue	
			,		

/aldron Eng'g Total Cost %	Forecasted Total Project Valu
20	\$ 2,990,000
16	\$ 3,737,500
12	\$ 4,983,333
10	\$ 5,980,000



Civil/Structural 19%

Contract Value	\$ 598,000		PM	СМ	SPE/LDE/DM	Staff Eng	Des. Eng	Designer	Con. Sup	Com. Eng	Admin		
Contingency Value	\$ -	Baseline-	235	210	190	155	155	140	179	180	76		
Project Plan Contingency-%	0.00	Typical										Manhour	
"Project Proposal / Allocation"	\$ 598,000	Proj. Hrs	(\$0)	<< Contract	Gap							Summary	Group Costs
Mechanical													
Pre-Job Planning		_			6	16		12			_	34	
Site Visits												0	
Study/Report				1			5					0	
Demolition Dwgs												0	
Process Diagrams												0	
Piping Dwgs & Details					4	36		60				100	
Site Plans, GAs & Equip Location Plans					6	20		30				56	
HVAC Dwgs												0	
Duct Work Dwgs & Details												0	
Mech General Notes & Details					4	16		20				40	
P&IDs (motor & equip lists?)					6	20						26	
Specifications-Equipment					2	16						18	
Specifications-Installation					4	22						26	
												0	
LDE Supervision												0	
Subtotal Hrs =			0	0	32	146	0	122	0	() (D <mark>300</mark>	
Subtotal Cost =			\$ -	\$ -	\$ 6,080	\$ 22,630	\$-	\$ 17,080	\$ -	\$-	\$ -		\$ 45,790
Civil/Structural Activities (P6)							2						
Pre-Job Planning/Design Criteria					4	16						20	
Site Visits												0	
Bldg Structural Inspection/Report												0	
General Notes Dwg-Civil/Structural					2	16						18	
Site Civil Dwgs										<u> </u>	_	0	
Demolition Dwgs												0	
Foundations Dwgs					8	46						54	
Steel Dwgs					4	16						20	
Architectural Dwgs					16					1		48	
Specifications-Equipment												0	
Specifications-Installation					4	16						20	
Develop Rqmts and Review Sp. Inspections by 3rd Party					2	4	-					6	
Modeling (RISA)					4	46						50	
Equipment Anchorage					4	8						12	
Design Checking												0	
Interface with Civil Sub					8	12						20	
LDE Supervision												0	
Subtotal Hrs =	:		0	0	56	212	0	0	0	() (D 268	1
Subtotal Cost =			\$ -	\$ -	\$ 10,640			\$ -	\$ -	\$ -	\$ -		\$ 43,500
19.0/5100													
I&C/Fire												1	

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Contract Value	\$ 598,000		PM	СМ	SPE/LDE/DN	Staff Eng	Des. Eng	Designer	Con. Sup	Com. Eng	Admin		
Contingency Value	\$ -	Baseline-	235	210	190	155	155	140	179	180	76		
Project Plan Contingency-%	0.00	Typical	1									Manhour 🛛	
"Project Proposal / Allocation"	\$ 598,000	Proj. Hrs	(\$0)	<< Contract	Gap							Summary	Group Costs
Pre-Job Planning						3 12		12				32	
Site Visits												0	
Control Architecture						1 8		24				36	
Panel Dwgs & Diagrams						3 16		24				48	
Site Plans/GAs & Equip Location Plans			Sec.			1 8	12 1	16				28	
I&C General Notes & Details					3	2 4		8				14	
Instrument List						2 4		8				14	
Loop Diagrams											-	0	
Specifications-Equipment						3 16		36				60	
Specifications-Installation						1 8						12	
Report												0	
CEMs/PEMs						3 32						40	
Training preparation-procedures, functions, alarms, etc												0	
Coordinate with sub-contractor (I&C/fire)												0	
Subtotal Hrs	5 =		() (0 4	3 108	0	128	0		0	0 284	
Subtotal Cost	t =		\$ -	\$ -	\$ 9,120	\$ 16,740	\$ -	\$ 17,920	\$ -	\$ -	\$ -		\$ 43,780
Electrical													_
Pre-Job Planning						3 12		20				40	
Site Visits												0	
Load Flow Study, E-Tap						1 8		24				36	
Short Circuit Study, E-Tap						3 16		46				70	
Protective Device Coordination Study						1 8		16				28	
Arc Flash Study					3	2 4		8				14	
Standard Symbols/Details & Notes						2 4		8				14	
One Lines								8				14	
Elect. Hazardous Classification Plan												0	
Equip Configuration/Elev & Elementaries						1 8		24				36	
Site Plans/GAs & Equip Location Plans						1 8		12				24	
Grounding Plans/Lightning Protection						1 8		8				20	
Conduit & Raceway Dwgs						1 12		46				62	
Lighting & Misc Power Plans						2 4		6				12	
Demolition Dwgs											-	0	
Specifications-Equipment						2 4		6				12	
Specifications-Installation						2 4		6				12	
install details						- -		8				10	
LDE Supervision						-						0	
Subtotal Hrs	3 =) (0 5	1 104	0	246	0		0	0 404	·
Subtotal Cost			\$ -	\$ -	\$ 10,260			\$ 34,440		\$ -	\$ -		\$ 60,820
			- v		- IU,200	÷ 10,120		- J,440	Ŷ -	Y -	- Y]
Design Phase Subtotal Hrs =) (0 19	570	0	496	0		0	0 1256	
					19	5/0		490	0		<u> </u>	1230	

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Contract Value	\$ 598,000		PM		СМ	SPE/LD	DE/DM	Staff Eng	Des. Eng	Designer	Con. Sup	Com.	Eng	Admi	n			
Contingency Value	\$ -	Baseline-	235	-	210	19		155	155	140	179	18	0	7	6			_
Project Plan Contingency-%	0.00	Typical														Manhour		
"Project Proposal / Allocation"	\$ 598,000	Proj. Hrs	(\$0)	<	<< Contract	Gap										Summary	Grou	up Costs
Multi-Discipline																		
Interdiscipline/Submittal Reviews (12%)	0.11			0	0)	21	64	0	56	0)	0		0	142		
Subtotal Cost :	-		\$-		\$ -	\$	4,072	\$ 9,967	\$ -	\$ 7,833	\$ -	\$	-	\$	-		\$	21,872
										25	Tota	l Design	Phase	Manho	urs =	1398	ł.	
					_				_			Total D	esign P	Phase C	ost =		\$	215,762
Construction Support																		
RFIs							20	40		30						90		
Contractor Submittals							30	60		20						110		
Site Meetings								36		36								
LDE Supervision											-					0		
Subtotal Hrs :	:			0	0		50	136					0		0	272		
Subtotal Cost =	-		\$-		\$-	\$	9,500	\$ 21,080	\$ -	\$ 12,040	\$ -	\$	-	\$	-		\$	42,620
Commissioning											1			_				
Plans		_									1					0		
Procedures											1					0		
Comm. Management												_				0		
Training																		
Tech assit								30		30								
LDE Supervision			_		_											0		
Subtotal Hrs :	-			0	0		0	30	0)	0		0	60		
Subtotal Cost =			\$-		\$ -	\$	-	\$ 4,650	\$ -	\$ 4,200	\$ -	\$	-	\$	-		\$	8,850
																-		
Closeout																		
Record Dwgs							4	8		24						36		
Lessons Learned							4									4		
Turnover packages				_				20				_		1			_	
LDE Supervision																0		
Subtotal Hrs :				0	0		8	28					0		0	60		
Subtotal Cost :	=		\$-		\$-	\$	1,520	\$ 4,340	\$ -	\$ 3,360	\$ -	\$	-	\$	-		\$	9,220
Technical Subcontractors												Support					-	
												Total Su	pport F	Phase C	ost =		\$	60,690
Geotechnical	\$ 11,440							ay, lab test @ S	\$840, 19.4 en	g. Hour at ave	g \$160)							
Air Permit		(242 labor h																
Civil/Site Planning/Survey	\$ 102,474	(600 labor h	ours @\$16	8 pl	lus \$1,000 in	expense	es)											
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Contract Value	\$ 598,000		PM	СМ	SPE/LDE/DM	Staff Eng	Des. Eng	Designer	Con. Sup	Com. Eng	Admin			
Contingency Value	\$ -	Baseline-	235	210	190	155	155	140	179	180	76			
Project Plan Contingency-%	0.00	Typical					-					Manhour		
"Project Proposal / Allocation"	\$ 598,000	Proj. Hrs	(\$0)	<< Contract	Gap							Summary	Grou	p Costs
					1]		
Α														
Subcontract Subtotal	= 165,214													
WECI Fees (0%)	0.00													
State Sales Tax (5.5%)(typically not for services)														
Subcontract Total	= \$ 165.214													
Equiv Hrs Rate	\$ 130				-		<u> </u>							
Equiv Proj Hrs (for consideration in PM hrs)	1,271													
	1,2,1													
Travel/Expenses												-		
Days	17													
Daily Rate	\$ 585												_	
Expense Subtotal														
Expense subtotal	Ş 3,343									X				
Project Management														
Pre-Job Planning												0		
Site Visits				-						· · · · ·		0		
Study/Report												0		
Design coordinator			2											
Cost Opinion												0		
PM-WECI Effort (12%)	0.12		215									215		
PM-Subcontract Effort (6%)	0.06		76									76		
Subtotal Hrs			291		0 0	0	0	0	0	() 0			
Subtotal Cost			\$ 68,389		\$ -	\$ -	\$ -	\$ -		\$ -	\$ -		\$	68,389
					<u> </u>				T		1		, r	,
											Base	Project Cost =	Ś	520,000
											Contingency			78,000
	-												\$	598,000
									<u> </u>]	Subco	ntractor Fee			-
									<u> </u> 1	Cubic		Project Cost =		598,000
												- oject cost -	· ·	333,000

Waldron

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