

RESOLUTION NO. 2015-9

A RESOLUTION TO AMEND AND SUPPLEMENT RESOLUTION NO. 2012-405, AUTHORIZING DESIGN AND ENGINEERING SERVICES FOR CONSTRUCTION OF THE CLAYVILLE SIMPLE CYCLE POWER PLANT, IN THE AMOUNT OF \$228,143.00.

WHEREAS, the City Council of the City of Vineland, on October 9, 2012, adopted Resolution No. 2012-405, entitled "A RESOLUTION AUTHORIZING A PROFESSIONAL SERVICES AGREEMENT WITH WALDRON ENGINEERING AND CONSTRUCTION, EXETER, NH, FOR DESIGN AND ENGINEERING SERVICES FOR CONSTRUCTION OF THE CLAYVILLE SIMPLE CYCLE POWER PLANT"; and

WHEREAS, there exists a need to amend and supplement the Professional Services contract awarded to Waldron Engineering and Construction, Exeter, NH, Professional Services for Design and Engineering Services for Construction of the Clayville Simple Cycle Power Plant, as authorized by Resolution No. 2012-405; by change order #2 to Contract No. C12-0060, to incorporate the following eight (8) modifications to this contract:

- 1) Contract price reduction to reflect actual cost of AECOM permitting services which were completed under budget. Contract price **decrease** of \$3928.00.
- 2) Additional Waldron professional services for support of the contractor submittal process. These additional services were necessitated by unforeseen staffing and experience issues with the construction contractor. Contract price increase of \$126,000.00.
- 3) Additional Waldron s professional services for support of the contractor Request for Information (RFI) process. These additional services were necessitated by unforeseen staffing and experience issues with the construction contractor. Contract price increase of \$74,000.00.
- 4) Additional Waldron professional services related to design changes for relocation of the access road in the Clayville Substation portion of the worksite. These design changes were necessitated by the discovery of a previously unknown buried ACE fiber optic cable. Contract price increase of \$5400.00.
- 5) Additional Waldron professional services for design changes to the ammonia forwarding system. These design changes were requested by VMEU operations staff in response to "lessons learned" at Down Unit #11. Contract price increase of \$3950.00.
- 6) Additional Waldron professional services related to the preparation of the Clayville Unit #1 commissioning services contract request for public bidding. These additional services were necessitated by the extensive project delays resulting from the litigation process that occurred after initial award of the construction contract. Contract price increase of \$5665.00.
- 7) Additional Waldron professional services related to out-of-sequence and delayed comments received during review of the Clayville Unit #1 site plan application. Contract price increase of \$3456.00.
- 8) Additional Waldron professional services related to participation in the Factory Acceptance Test (FAT) for the ABB process control system (PCS) in Wickliffe, Ohio. Contract price increase of \$13,600.00; and

WHEREAS, the City Comptroller has certified that funds for the amendment requested herein are available; now, therefore,

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

1. THAT Resolution No. 2012-405, entitled "A RESOLUTION AUTHORIZING A PROFESSIONAL SERVICES AGREEMENT WITH WALDRON ENGINEERING AND CONSTRUCTION, EXETER, NH, FOR DESIGN AND ENGINEERING SERVICES FOR CONSTRUCTION OF THE CLAYVILLE SIMPLE CYCLE POWER PLANT"; be and the same is hereby amended and supplemented to increase maximum amount of the contract by \$228,143.00.

2. THAT the Purchasing Agent be and the same is hereby authorized to issue amendatory supplemental change order #3 to Contract No. C12-0060, in the amount of \$228,143.00.

Adopted:

President of Council

ATTEST:

City Clerk



January 6, 2015

REPORT

TO: THE MAYOR AND COUNCIL

RE: Amendatory Supplemental Change Order No. 3
Contract No. C12-0060
Design and Engineering Services - Construction of the Clayville Simple Cycle Power Plant
Waldron Engineering and Construction, Exeter, NH

Dear Mayor and Member of Council:

We are requesting an amendatory supplemental change order to Contract No. C12-0060, issued to Waldron Engineering and Construction, Exeter, NH, for Professional Services for Design and Engineering Services for Construction of the Clayville Simple Cycle Power Plant. This contract was authorized by Resolution No. 2012-405, adopted by City Council on October 9, 2012.

The change order requested in the amount of \$228,143.00 is necessary to incorporate the following eight (8) modifications to this contract:

1. Contract price reduction to reflect actual cost of AECOM permitting services which were completed under budget. Contract price decrease of \$3928.00.
2. Additional Waldron professional services for support of the contractor submittal process. These additional services were necessitated by unforeseen staffing and experience issues with the construction contractor. Contract price increase of \$126,000.00.
3. Additional Waldron s professional services for support of the contractor Request for Information (RFI) process. These additional services were necessitated by unforeseen staffing and experience issues with the construction contractor. Contract price increase of \$74,000.00.
4. Additional Waldron professional services related to design changes for relocation of the access road in the Clayville Substation portion of the worksite. These design changes were necessitated by the discovery of a previously unknown buried ACE fiber optic cable. Contract price increase of \$5400.00.
5. Additional Waldron professional services for design changes to the ammonia forwarding system. These design changes were requested by VMEU operations staff in response to "lessons learned" at Down Unit #11. Contract price increase of \$3950.00.



6. Additional Waldron professional services related to the preparation of the Clayville Unit #1 commissioning services contract request for public bidding. These additional services were necessitated by the extensive project delays resulting from the litigation process that occurred after initial award of the construction contract. Contract price increase of \$5665.00.
7. Additional Waldron professional services related to out-of-sequence and delayed comments received during review of the Clayville Unit #1 site plan application. Contract price increase of \$3456.00.
8. Additional Waldron professional services related to participation in the Factory Acceptance Test (FAT) for the ABB process control system (PCS) in Wickliffe, Ohio. Contract price increase of \$13,600.00.

This change order, plus change order #1 (\$312,903) and #2 (\$81,008.50) will increase the original contract amount from \$1,653,250.00 to \$2,275,304.50.

The amendatory supplemental change order for which authorization is herein requested may be authorized in accordance with N.J.A.C. 5:34-4.1 et seq.

Sincerely,

A handwritten signature in black ink, appearing to read "RED", is written over the typed name.

Robert E. Dickenson, Jr.
Assistant Business Administrator

RD/wr



REQUEST FOR CHANGE ORDER
FOR:

Furnishing Professional Services for Design and Engineering for
Construction of the Clayville Simple Cycle Power Plant
PROJECT NAME

TO: BUSINESS ADMINISTRATION

DEPARTMENT: VMEU Generation Engineering

FROM: Pete Kudless, Project Manager

This is a request for change order # 3 to Contract # C12-0060 for:

Project Name: Furnishing Professional Services for Design and Engineering for Construction of the
Clayville Simple Cycle Power Plant

Name/Address of Contractor: Waldron Engineering & Construction, Inc.
37 Industrial Drive, Suite G-1
Exeter, NH 03833

The change order is necessary to incorporate the following eight (8) modifications to this contract
(Authorizing Resolution 2012-405 attached):

- 1) Contract price reduction to reflect actual cost of AECOM permitting services which were completed under budget, in accordance with Waldron Potential Change Order PCO #33 dated March 19, 2014 (copy attached). Incorporation of this PCO results in a contract price decrease of \$3928.00.
- 2) Additional Waldron professional services for support of the contractor submittal process, in accordance with Waldron Potential Change Order PCO #44 dated December 12, 2014 (copy attached). These additional services were necessitated by unforeseen staffing and experience issues with the construction contractor. Incorporation of this PCO results in a contract price increase of \$126,000.00.
- 3) Additional Waldron s professional services for support of the contractor Request for Information (RFI) process, in accordance with Waldron Potential Change Order PCO #43 dated December 12, 2014 (copy attached). These additional services were necessitated by unforeseen staffing and



- experience issues with the construction contractor. Incorporation of this PCO results in a contract price increase of \$74,000.00.
- 4) Additional Waldron professional services related to design changes for relocation of the access road in the Clayville Substation portion of the worksite, in accordance with Waldron Potential Change Order PCO #41 dated October 21, 2014 (copy attached). These design changes were necessitated by the discovery of a previously unknown buried ACE fiber optic cable. Incorporation of this PCO results in a contract price increase of \$5400.00.
 - 5) Additional Waldron professional services for design changes to the ammonia forwarding system, in accordance with Waldron Potential Change Order PCO #40 dated October 21, 2014 (copy attached). These design changes were requested by VMEU operations staff in response to "lessons learned" at Down Unit #11. This additional scope of work is documented in Engineering Change Notice ECN #10 (copy attached). Incorporation of this PCO results in a contract price increase of \$3950.00.
 - 6) Additional Waldron professional services related to the preparation of the Clayville Unit #1 commissioning services contract request for public bidding, in accordance with Waldron Potential Change Order PCO #39 dated December 12, 2014 (copy attached). These additional services were necessitated by the extensive project delays resulting from the litigation process that occurred after initial award of the construction contract. Incorporation of this PCO results in a contract price increase of \$5665.00.
 - 7) Additional Waldron professional services related to out-of-sequence and delayed comments received during review of the Clayville Unit #1 site plan application, in accordance with Waldron Potential Change Order PCO #35 dated December 12, 2014 (copy attached). Incorporation of this PCO results in a contract price increase of \$3456.00.
 - 8) Additional Waldron professional services related to participation in the Factory Acceptance Test (FAT) for the ABB process control system (PCS) in Wickliffe, Ohio, in accordance with Waldron Potential Change Order PCO #23 dated October 21, 2014 (copy attached). Incorporation of this PCO results in a contract price increase of \$13,600.00.

Contract Price Modification Breakdown

- | | |
|---|--------------|
| 1) AECOM Permitting Services Under Budget | (\$3928.00) |
| 2) Contractor Submittals | \$126,000.00 |



3) Contractor RFI's	\$74,000.00
4) Substation Access Road Relocation	\$5400.00
5) Ammonia System Design Changes	\$3950.00
6) Commissioning Services RFP	\$5665.00
7) Site Plan Review Support	\$3456.00
8) ABB PCS FAT Test	\$13,600.00

CHANGE ORDER TOTAL \$228,143.00

Original Contract Amount: \$ 1,653,250.00
 Amount of This Change Order: \$ 228,143.00
 Previous Change Orders: \$ 393,911.50
 Total Revised Amount: \$ 2,275,304.50

APPROVED BY: Joseph Isabella
Print/Type

J. Boyle 4/21/11
Signature

NOTE:
CHANGE ORDERS CANNOT EXCEED 20% OF THE ORIGINAL CONTRACT AMOUNT

Please provide the account number that the change order will be charged to:

Account # 022-0-00-00-0000-2-7511600 E346Y

CC: Purchasing Division
 Gus Foster *[Signature]*
 Pete Kudless *[Signature]*
 Jeff Davis *[Signature]*



CITY OF VINELAND, NJ

RESOLUTION NO. 2012-405

A RESOLUTION AUTHORIZING A PROFESSIONAL SERVICES AGREEMENT WITH WALDRON ENGINEERING AND CONSTRUCTION, EXETER, NH, FOR DESIGN AND ENGINEERING SERVICES FOR CONSTRUCTION OF THE CLAYVILLE SIMPLE CYCLE POWER PLANT.

WHEREAS, there exists a need for Professional Services for Design and Engineering Services for Construction of the Clayville Simple Cycle Power Plant; and

WHEREAS, the City of Vineland has a need to acquire such professional services as a Non-Fair and Open Contract pursuant to N.J.S.A. 19:44A-20.5; and

WHEREAS, the purchasing agent has determined and certified in writing that the value of said services will exceed \$17,500.00; and

WHEREAS, Waldron Engineering and Construction, Exeter, NH, has submitted a proposal indicating they will provide the professional services in the amount not to exceed \$1,653,250.00 for a contract period of one year from date of award; and

WHEREAS, Waldron Engineering and Construction has completed and submitted a Business Entity Disclosure Certification for Non-Fair and Open Contract which certifies that Waldron Engineering and Construction has not made any reportable contributions to a political or candidate committee in the City of Vineland in the previous one year and that the contract will prohibit Waldron Engineering and Construction from making any reportable contributions through the term of the contract to a political or candidate committee in the City of Vineland; and

WHEREAS, the availability of funds for said Professional Services Contract to be awarded herein have been certified by the City Comptroller; and

WHEREAS, the Local Public Contract Law (N.J.S.A. 40A:11-1, et seq) requires that the Resolution authorizing the award of contract for Professional Services without competitive bidding and the contract itself must be available for public inspection.

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 Non-Fair and Open Agreement pursuant to N.J.S.A. 19:44A-20.5 with Waldron Engineering and Construction, Exeter, NH, for Professional Services for Design and Engineering Services for Construction of the Clayville Simple Cycle Power Plant in an amount not to exceed \$1,653,250.00.
2. That this Agreement is awarded without competitive bidding as a Professional Services in accordance with N.J.S.A. 40A:11-5(1)(a) of the Local Public Contracts Law because said services to be rendered or performed require knowledge of an advanced type in a field of learning acquired by a prolonged formal course of specialized instruction distinguished from general academic instruction or apprenticeship and training.
3. That the Business Disclosure Entity Certification, the Political Contribution Disclosure Form and the Determination of Value be placed on file with the Resolution.
4. That a Notice of this action shall be printed once in the Daily Journal.

Adopted: October 9, 2012

Peter F. Cocca

President of Council pfc, III

ATTEST:

Christina Scarpa

Deputy City Clerk cas

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>33</u>
		Date:	<u>3/19/2014</u>
		Waldron Project Code:	<u>293.01</u>
		Purchase Order Date:	<u>10/18/2012</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	PO #:	<u>12-007250</u>
		Waldron Milestone #	<u>49</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO adjusts the work on the AECOM permit Subcontract, which was completed under budget
 The permit type was adjusted after review with the NJDEP

This scope includes work by AECOM personnel.
 This reduces the \$160,000 to \$156,072.47, which is an impact of -\$3,927.53

This PCO does not have a man-hour sheet.
 This PCO is subject to Terms & Conditions, mark-ups, and retain age as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$297,903	Does not include Pending PCO's
The Scope of Work prior to this PCO was	\$1,951,153	
The Scope of Work will be changed by this PCO	(\$3,928) *	
The new Scope of Work including this PCO will be	\$1,947,225	

The Overall Schedule will be changed by TBD Days
 The Date of Project Completion as of the date of this PCO therefore is TBD
 This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

**NOT VALID UNTIL SIGNED BY THE WALDRON'S PM and VMEU's PM.
 ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**


*Note
 Subject to Vineland
 City Council
 Approval of Change
 Order

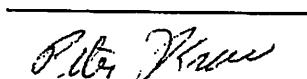
Waldron Engineering & Construction
 Engineer/Contractor (Firm Name)

Vineland Municipal Electric Utility
 Owner (Firm Name)

37 Industrial drive Exeter, NH, 03833
 Address

211 N. West Ave, Vineland, NJ, 08362-1508
 Address


 By (signature)


 By (signature)

Jeremy P. Smith
 (typed name)

Peter Kudless
 (typed name)

10/14
 Date

10/30/14
 Date

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>44</u>
		Date:	<u>12/12/2014</u>
		Waldron Project Code:	<u>293.01</u>
		Purchase Order Date:	<u>10/18/2012</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	PO #:	<u>12-007250</u>
		Waldron Milestone #	<u>60</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO covers work on the potential change order item identified in the project review reports for additional services for work relating to Additional submittal support for the VMEU C1 project

This work is documented by the attached submittal cost analysis
 This scope includes work by Waldron personnel and this price includes all required expenses and follow-up reports
 This impact has an estimate of seventy-four thousand (\$126,000)

This PCO utilizes the man-hour rates (attached)
 This PCO is subject to Terms & Conditions, mark-ups, and retainage as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$393,912	Does not include pending PCO's
The Scope of Work prior to this PCO was	\$2,047,162	
The Scope of Work will be changed by this PCO	\$126,000 *	
The new Scope of Work including this PCO will be	\$2,173,162	

The Overall Schedule will be changed by TBD Days
 The Date of Project Completion as of the date of this PCO therefore is TBD
 This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

**NOT VALID UNTIL SIGNED BY THE WALDRON'S PM and VMEU's PM.
 ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**

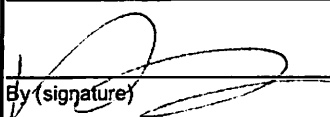
*Note
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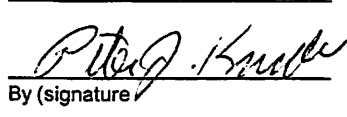
Waldron Engineering & Construction
 Engineer/Contractor (Firm Name)

37 Industrial drive Exeter, NH, 03833
 Address

Vineland Municipal Electric Utility
 Owner (Firm Name)

211 N. West Ave, Vineland, NJ, 08362-1508
 Address


 By (signature)


 By (signature)

Jeremy P. Smith
 (typed name)

Peter Kudless
 (typed name)

12/12/14
 Date

12/12/14
 Date

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>44</u>
	_____	Date:	<u>12/12/2014</u>
To Owner:	_____	Waldron Project Code:	<u>293.01</u>
	<u>Vineland Municipal Electrical Utility</u>	Purchase Order Date:	<u>10/18/2012</u>
	_____	PO #:	<u>12-007250</u>
	_____	Waldron Milestone #	<u>60</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO covers work on the potential change order item identified in the project review reports for additional services for work relating to Additional submittal support for the VMEU C1 project

This work is documented by the attached submittal cost analysis
 This scope includes work by Waldron personnel and this price includes all required expenses and follow-up reports
 This impact has an estimate of seventy-four thousand (\$126,000)

This PCO utilizes the man-hour rates (attached)
 This PCO is subject to Terms & Conditions, mark-ups, and retainage as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$393,912	Does not include pending PCO's
The Scope of Work prior to this PCO was	\$2,047,162	
The Scope of Work will be changed by this PCO	\$126,000 *	
The new Scope of Work including this PCO will be	\$2,173,162	

The Overall Schedule will be changed by TBD Days
 The Date of Project Completion as of the date of this PCO therefore is TBD
 This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

**NOT VALID UNTIL SIGNED BY THE WALDRON'S PM and VMEU's PM.
 ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**

*Note
 Subject to Vineland
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 Order

Waldron Engineering & Construction
 Engineer/Contractor (Firm Name)

Vineland Municipal Electric Utility
 Owner (Firm Name)

37 Industrial drive Exeter, NH, 03833
 Address

211 N. West Ave. Vineland, NJ, 08362-1508
 Address

 By (signature)

 By (signature)

Jeremy P. Smith
 (typed name)

Peter Kudless
 (typed name)

12/12/14
 Date

 Date

WALDRON ENGINEERING & CONSTRUCTION, INC.

December 10th , 2014

Mr. Peter Kudless
Project Manager
Vineland Municipal Electrical Utility (VMEU)
Generation Division
211 N. West Ave
Vineland, New Jersey

Via: E-Mail
RE: PCO #44 Additional Submittal support

Pete

Thank you for the opportunity to provide the requested potential change order (PCO) to the Vineland Municipal Electric Utility Clayville Unit 1 Contract. Waldron will perform additional services to support the submittal review record process (Submittal). The submittal review record process process is where the engineer provides final approval to contractor on the equipment, items, and materials to be used in the project. Having a submittal process ensures that, in a project awarded on a competitive bid process, that the correct items are used. The project had a budget for Waldron to perform these reviews in conjunction with VMEU and its direct vendors (Rolls Royce, Cemtek, WEG, Kobeleco, and ABB). Waldron notes that in formulating the original budget with VMEU, Waldron and VMEU had relied on several supporting facts:

- 1) The expended budget from our recent project, Howard M. Down Unit (HMD) #11 was used as a base.
- 2) The contractor specification was written to ensure that only a contractor of the type and caliber of the contractor used on HMD #11. A contractor of this type would execute the submittal process in a logical and systematic process.
- 3) Waldron/VMEU agreed that submittal reviews beyond one full cycle would be treated as a PCO. Note that a cycle is one round of submit-review-return-resubmit. If the re-submittal is still unacceptable, that is work beyond “..one cycle”.
- 4) In creating a budget, Waldron/VMEU accounted for the submittals coming in over a period of time and in a typical staggered manner

Based on these supporting factors, the budget was set for the project. Unfortunately current events require that we now adjust that budget to account for them. The contractor that was awarded the project is not currently executing or staffing the project in the manner envisioned by the original specification. Their submittal process has not been conducted in a logical and systemic manner (until recently). Waldron has therefore been required to expend additional hours to support the project above what was allocated. For submittal review tracking, VMEU has elected to employ the services of Source One (S1). S1 has been advising the contractor of that status in regards to submittal breakdowns, and we do see a slight positive trend in the number of submittals that have added work to the project, but there is still a gap between what was anticipated and what has/will occur.

Waldron sees the causes on the contractor side as relating to several primary factors. One is related to how the contractor has staffed the project. Another relates to the experience of both the contractor and the primary sub-contractors.

- 1) Staffing-

Peter Kudless
VMEU
12/10/14
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- a. Thru the project so far, the contractor has a very limited project implementation staff, where the project engineer is also the site foreman and the project manager is also the QA/QC manager (very recently they have begun to make changes). To date Waldron has not had any evidence of the QA/QC manager acting to internally “reject” any sub-contractor or vendor submittals. On a typical large project, we will see internal revision number to sub-contractor and vendor submittals jump or skip during the process. This indicates internal (to the contractor) technical review and rejection. That has not occurred, meaning that Waldron is the only submittal QA/QC on this project. Which is not to say C&HI has not employed people to handle the submittals, but has not employed a technical reviewer or the technical reviewer employed does not have sufficient experience (see below)

2) Experience-

- a. Despite the project specifications requiring a general contractor (GC) experienced in at least three large scale (>15 MW) power project, this will be C&HI’s 1st such effort as a GC
- b. Despite the project specifications requiring a project manager experienced in large scale (>15 MW) power project, this will be C&HI’s PM’s 1st such effort.
- c. Despite the project specifications requiring a project engineer experienced in large scale (>15 MW) power projects, this will be C&HI’s Project engineer 1st such effort.
- d. Despite the project specifications requiring a sub-contractors experienced in large scale (>15 MW) power project, this will be many of the sub-contractor’s 1st such effort.

3) More than One Cycle Submittals-

- a. All current submittals beyond one-cycle are accounted for in this PCO, and a forecast (based on current population) has been applied.

4) Submittal Timing (or the “bow wave”)-

- a. Due to the manner in which the project was awarded, the contractor had a longer period between when they began “at risk” project planning and submittal processing, to when the project was actually awarded. The resultant of this is that the contractor, on the 1st day the project was actually awarded, was able to submit a very large number of submittals all at once. The contract limits the review time of Waldron/VMEU; therefore we could not ignore the submittal once issued. As this “bow wave” hit, the team implemented several responses, including a prioritization system and up- staffing Waldron’s review team. The additional staff assisted in returning the submittal faster

Peter Kudless
VMEU
12/10/14
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than otherwise, but were less efficient in the execution and drew down the project's man-hours, therefore contributing to the budget shortfall for submittal reviews.

As one can imagine, with a contractor and sub-contractor who are new to this type of project, and with a project leadership also new to this type of work, additional guidance has needed to be provided. VMEU has also observed the contractor's issues in this regard, and has therefore employed the services of S1 and Waldron to assist. Waldron has issued repeated project notes to the contractor to adjust and explain the submittal review process, and S1 has travelled to site to work with the contractor in their offices. Under Waldron and S1's guidance, the submittal process is now improving, and where C&HI was submitting a multitude of technically-similar items individually (creating unnecessary and inefficient paperwork) they now have summary submittals. However these positive trends are recent events and the impact of the initial process is to have expended the hours to deal with the submittals.

The end resultant of the above factors is that there are both more submittals and they are taking longer to process than the reference project and the established budget. Also we note that the project has had larger number of revise & resubmit and rejected submittals than the reference project.

There are four basic types of submittal review records-

- No Exceptions or No exceptions with comments (these are the contractor filing to use something that is in-line with the original specification)
- Make Correction Indicated (these are the contractor filing to use something that is close to being in-line with the original specification, and can be altered by changing one or two selections to be aligned, which the engineer must then reconfigure for them)
- Revise and Resubmit (where the contractor is not in-line with the specification and needs to rework the submittal, the engineer must direct where the changes need to be)
- Rejection (where the contractor's submittal documentation fails to meet the minimum standard for technical review, and therefore is sent back un-reviewed)

Therefore the submittal's which take the longest to process are typically make corrections indicated and revise & resubmit, where the engineer must correct a large amount of incorrect submittal documentation. At 1st pass it may seem that rejection would also take longer, but that is not true. However that is not true as a rejection is actually very quick and the engineer does not spend a large amount of time, as the submittal does not have the technical content required to activate an actual review. However a rejection is almost always followed by teleconferences or additional letters to explain why the submittal was rejected and then explanation as to how to go about organizing the submittal such that it can even be reviewed. With a new contractor or sub-contractor, both the MCI and R&R categories will be higher than on a project with more experienced personnel. That is the trend we are seeing currently:

Peter Kudless
 VMEU
 12/10/14
 Page 4 of 5

Current SUBMITTAL's

Planned Submittals	10/8/2014	10/23/2014	11/7/2014	11/18/2014	12/3/2014
Administrative Submittals:	5	5	5	5	5
Completed Submittals:	144	183	183	193	195
Submittals in Process:	204	168	169	163	162
All Planned Submittals:	353	356	357	361	362

In Process Statuses					
Initial Submittal Pending:	33	18	29	12	12
Engineer Response Pending:	64	33	29	39	44
Engineer Responses:	107	117	111	112	106
All In Process Submittals:	204	168	169	163	162

Engineer Response Statuses	November 18 Stats		December 3 Stats		
No Exception Taken	0	0%		0	0%
Make Corrections Noted	91	81%		92	87%
Revise & Resubmit	19	17%		12	11%
Rejected	2	2%		2	2%
All In Process Submittals with Engineer Review:	112			106	

Additional Submittals Required As of December 3, 2014

Vendor	Initial	R&R, Reject	Total Pending Submittals
C&H I	0	0	0
Scalfo:	1	5	6
Falasca:	7	7	14
Carusone:	3	1	4
Fabbri Builders:	1	1	2
	12	14	26

Notes:

1. C&H I has a minimum of an additional Twenty-Six (26) Submittals to present to the Owner / Owner's Engineer Waldron
2. Potential cost risk if VMEU determines MCIs in fact will require Engineer Review (Now at 92 Submittal Packages)
2. IF VMEU determines that MCIs must be reviewed, total packages to review is 118 - See Below:

	Initial	R&R, Rej.	MCI	Totals	% of all
C&H Industrial:	0	0	9	9	8%
Carusone:	3	1	11	15	13%
Fabbri:	1	1	0	2	2%
Falasca:	7	7	36	50	42%
PCI:			5	5	4%
Scalfo:	1	5	31	37	31%
	12	14	92	118	

Peter Kudless
VMEU
12/10/14
Page 5 of 5

The statistics show that the majority of submittals required additional work. We are also seeing a trend toward a higher number of submittals's than was seen on the base project, HMD#11. Below we can see the projection:

Project	Number of submittals
Total at the end of HMD#11	285
Projected submittals at end of Clayville	362
<i>Projected submittal increase</i>	<i>~27%</i>

All of this translates to both a higher \$ per submittal cost and more expenses for a larger number of submittals. Therefore the breakdown would be:

Project	# of SUBMITTAL's	\$ per SUBMITTAL	Costs
HMD #11 (base)	285	345.3	\$98,397
Clayville currently	195	710.7	\$138,586
Clayville Forecast	167	710.7	\$118,686
		Shortfall	\$158,876

However current trends have been improving, therefore at this time Waldron would like to request that VMEU approve a PCO for \$126, 000, predicting a decline in per submittal costs:

Project	# of SUBMITTAL's	\$ per SUBMITTAL	Costs
HMD #11 (base)	285	345.3	\$98,397
Clayville Prediction	362	619.9	\$224,397
		Requested PCO	\$126,000

As this would then equal to a final cost per submittal of \$619.9, which is our current projection.

I trust this memorandum meets your needs. If you have any questions please do not hesitate to call.

Regards,

JEREMY P. SMITH

Jeremy P Smith, P.E.
Project Manager
Waldron Engineering & Construction, Inc.

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>43</u>
	_____	Date:	<u>12/12/2014</u>
	_____	Waldron Project Code:	<u>293.01</u>
	_____	Purchase Order Date:	<u>10/18/2012</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	PO #:	<u>12-007250</u>
	_____	Waldron Milestone #	<u>59</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO covers work on the potential change order item identified in the project review reports for additional services for work relating to Additional RFI support for the VMEU C1 project

This work is documented by the attached RFI cost analysis
 This scope includes work by Waldron personnel and this price includes all required expenses and follow-up reports
 This impact has an estimate of seventy-four thousand (\$74,000)

This PCO utilizes the man-hour rates (attached)
 This PCO is subject to Terms & Conditions, mark-ups, and retainage as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$393,912	Does not include pending PCO's
The Scope of Work prior to this PCO was	\$2,047,162	
The Scope of Work will be changed by this PCO	\$74,000 *	
The new Scope of Work including this PCO will be	\$2,121,162	

The Overall Schedule will be changed by TBD Days
 The Date of Project Completion as of the date of this PCO therefore is TBD
 This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

**NOT VALID UNTIL SIGNED BY THE WALDRON'S PM and VMEU's PM.
 ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**

*Note
 Subject to Vineland
 City Council
 Approval of Change
 Order

Waldron Engineering & Construction
 Engineer/Contractor (Firm Name)

37 Industrial drive Exeter, NH, 03833
 Address

Vineland Municipal Electric Utility
 Owner (Firm Name)

211 N. West Ave, Vineland, NJ, 08362-1508
 Address

 By (signature)

 By (signature)

Jeremy P. Smith
 (typed name)

Peter Kudless
 (typed name)

12/12/14
 Date

12/12/14
 Date

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>43</u>
	_____	Date:	<u>12/12/2014</u>
To Owner:	_____	Waldron Project Code:	<u>293.01</u>
	<u>Vineland Municipal Electrical Utility</u>	Purchase Order Date:	<u>10/18/2012</u>
	_____	PO #:	<u>12-007250</u>
	_____	Waldron Milestone #	<u>59</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO covers work on the potential change order item identified in the project review reports for additional services for work relating to Additional RFI support for the VMEU C1 project

This work is documented by the attached RFI cost analysis

This scope includes work by Waldron personnel and this price includes all required expenses and follow-up reports

This impact has an estimate of seventy-four thousand (\$74,000)

This PCO utilizes the man-hour rates (attached)

This PCO is subject to Terms & Conditions, mark-ups, and retainage as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$393,912	Does not include pending PCO's
The Scope of Work prior to this PCO was	\$2,047,162	
The Scope of Work will be changed by this PCO	\$74,000 *	
The new Scope of Work including this PCO will be	\$2,121,162	

The Overall Schedule will be changed by TBD Days

The Date of Project Completion as of the date of this PCO therefore is TBD

This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

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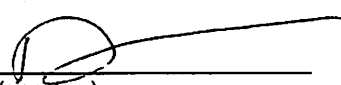
*Note
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Waldron Engineering & Construction
Engineer/Contractor (Firm Name)

Vineland Municipal Electric Utility
Owner (Firm Name)

37 Industrial drive Exeter, NH, 03833
Address

211 N. West Ave, Vineland, NJ, 08362-1508
Address


By (signature)

By (signature)

Jeremy P. Smith
(typed name)

Peter Kudless
(typed name)

12/12/14
Date

Date

WALDRON ENGINEERING & CONSTRUCTION, INC.

December 10th, 2014

Mr. Peter Kudless
Project Manager
Vineland Municipal Electrical Utility (VMEU)
Generation Division
211 N. West Ave
Vineland, New Jersey

Via: E-Mail
RE: PCO #43 Additional RFI support

Pete

Thank you for the opportunity to provide the requested potential change order to the Vineland Municipal Electric Utility Clayville Unit 1 Contract. Waldron will perform additional services to support the Request for Information (RFI) process. The RFI process is where the engineer provides additional guidance to contractor on the design package. Having an RFI process ensures that the design is an interactive process which can respond to altered circumstances and unforeseen events. The project had a budget for Waldron to assist the contractor in this manner. Waldron notes that in formulating the original budget with VMEU, Waldron and VMEU had relied on two supporting facts:

- 1) The expended budget from our recent project, Howard M. Down Unit (HMD) #11 was used as a base.
- 2) The contractor specification was written to ensure that only a contractor of the type and caliber of the contractor used on HMD #11

Based on these supporting factors, the budget was set for the project. Unfortunately current events require that we now adjust that budget to account for them. The contractor that was awarded the project is not currently executing or staffing the project in the manner envisioned by the original specification. Waldron has therefore been required to expend additional hours to support the project above what was allocated. Waldron has been advising the contractor of that status in regards to RFI breakdowns, and we do see a slight positive trend in the number of RFI's that have added work to the project, but there is still a gap between what was anticipated and what has/will occur.

Waldron sees the causes on the contractor side as relating to two primary factors. One is related to how the contractor has staffed the project. The other relates to the experience of both the contractor and the primary sub-contractors.

- 1) Staffing-
 - a. Thru the project so far, the contractor has a very limited project implementation staff, where the project engineer is also the site foreman, and the project manager is also the QA/QC manager (very recently they have begun to make changes)

Peter Kudless
VMEU
12/10/14
Page 2 of 4

2) Experience-

- a. Despite the project specifications requiring a contractor experienced in at least three large scale (>15 MW) power project, this will be C&HI's 1st such effort as a GC
- b. Despite the project specifications requiring a project manager experienced in large scale (>15 MW) power project, this will be C&HI's PM's 1st such effort.
- c. Despite the project specifications requiring a project engineer experienced in large scale (>15 MW) power projects, this will be C&HI's Project engineer 1st such effort.
- d. Despite the project specifications requiring a sub-contractors experienced in large scale (>15 MW) power project, this will be many of the sub-contractor's 1st such effort.

As one can imagine, with a contractor and sub-contractor who are new to this type of project, and with a project leadership also new to this type of work, additional guidance has needed to be provided. Despite the efforts of the VMEU-onsite team (both VMEU's own staff and Source One's); the project engineering role in the RFI process has increased significantly.

Current trends indicate that there are both more RFI's and they are taking longer to process. Also we note that the trend currently is a large number of design alternatives and means+methods RFI's.

There are four basic types of RFI's

- Design Alternatives (these are the contractor filing to use something other than what is shown in the engineer's design)
- Design Issues (these are problems with the engineer's design or areas of uncertainty)
- OEM coordination (where the contractor needs some additional information from one of the owner's supplied equipment vendors)
- Means+Methods (where the contractor needs basic instruction on how to perform the project construction)

Therefore the RFI's which take the longest to process are typically design alternatives, where the engineer must research a new type of process or part to ensure it is as equal to the original. The RFI's for means+methods require the engineer to explain what some other contractors or sub-contractors may have already known or done previously on other projects. With a new contractor or sub-contractor, both these categories will be higher than on a project with more experienced personnel. That is the trend we are seeing currently.

Peter Kudless
 VMEU
 12/10/14
 Page 3 of 4

Current RFI's

Submitted	225	
Answered	223	99.11%
Design Alternatives	55	24.44%
Design issue	54	24.00%
OEM Coordination	28	12.44%
Means+Methods	88	39.11%
	225	100%

These statistics show that the majority (or ~66%) of RFI's are "contractor issues". We are also seeing a trend toward a higher number of RFI's than was seen on the base project, HMD#11. Below we can see the projection:

RFI's per month of construction

	BM RFI's	C&HI current	C&HI projected
1	14	67	67
2	53	27	27
3	65	33	33
4	93	22	22
5	57	30	30
6	34	34	34
7	15		38
8	11		38
9	9		36
10	3		34
11	3		32
12	4		30
13	8		
14	11		
Total	382	213	421

All of this translates to both a higher \$ per RFI cost and more expenses for a larger number of RFI's. Therefore the breakdown would be:

Project	# of RFI's	\$ per RFI	Costs
HMD #11 (base)	382	161.9	\$61,846
Clayville currently	231	384.9	\$55,752
Clayville Forecast	421	384.9	\$162,042
		Shortfall	\$100,196

Go Back to Agenda

Peter Kudless
VMEU
12/10/14
Page 4 of 4

However current trends have been improving, therefore at this time Waldron would like to request that VMEU approve a PCO for \$74, 000, predicting a decline in per RFI costs:

Project	# of RFI's	\$ per RFI	Costs
HMD #11 (base)	382	161.9	\$61,846
Clayville Prediction	421	322	\$135,846
		Requested PCO	\$74,000

As this would then equal to a final cost per RFI of \$322.00, which is our current projection.

I trust this memorandum meets your needs. If you have any questions please do not hesitate to call.

Regards,

JEREMY P. SMITH

Jeremy P Smith, P.E.
Project Manager
Waldron Engineering & Construction, Inc.

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>41</u>
		Date:	<u>10/21/2014</u>
		Waldron Project Code:	<u>293.01</u>
		Purchase Order Date:	<u>10/18/2012</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	PO #:	<u>12-007250</u>
		Waldron Milestone #	<u>57</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO covers work on the potential change order item identified in the project review reports for additional services for work relating to ACE road changes for the VMEU C1 project *due to absence of an unknown ACE buried fiber optic cable in the route to the ACE road.*

This work is documented by a separate scope of work (see ECN-12, but not 12A which is under PCO-42)

This scope includes work by Waldron personnel and this price includes all required expenses and follow-up reports *to the ACE road.*

This impact has an estimate of five thousand (\$5,400)

This PCO utilizes the man-hour rates (attached)

This PCO is subject to Terms & Conditions, mark-ups, and retain age as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$297,903	Does not include pending PCO's
The Scope of Work prior to this PCO was	\$1,951,153	
The Scope of Work will be changed by this PCO	\$5,400	*
The new Scope of Work including this PCO will be	\$1,956,553	

The Overall Schedule will be changed by TBD Days

The Date of Project Completion as of the date of this PCO therefore is TBD

This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

**NOT VALID UNTIL SIGNED BY THE WALDRON'S PM and VMEU's PM.
ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**

*Note


Subject to Vineland
City Council
Approval of Change
Order

Waldron Engineering & Construction
Engineer/Contractor (Firm Name)

Vineland Municipal Electric Utility
Owner (Firm Name)

37 Industrial drive Exeter, NH, 03833
Address

211 N. West Ave, Vineland, NJ, 08362-1508
Address


By (signature)


By (signature)

Jeremy P. Smith
(typed name)

Peter Kudless
(typed name)

10/14
Date

10/30/14
Date

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>40</u>
	_____	Date:	<u>10/21/2014</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	Waldron Project Code:	<u>293.01</u>
	_____	Purchase Order Date:	<u>10/18/2012</u>
	_____	PO #:	<u>12-007250</u>
	_____	Waldron Milestone #	<u>56</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO covers work on the potential change order item identified in the project review reports for additional services for work relating to Changes to the ammonia system for the VMEU C1 project *at the request of VMEU*

This work is documented by a separate scope of work (see ECN-10) *attached by VMEU Operations Staff as a*
 This scope includes work by Waldron personnel and this price includes all required expenses and follow-up reports *"Lesson*
 This Impact has an estimate of five thousand (\$5,000), and is billed at actual of \$3,950 *L earned"*

This PCO utilizes the man-hour rates (attached)

This PCO is subject to Terms & Conditions, mark-ups, and retain age as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$297,903	Does not include pending PCO's
The Scope of Work prior to this PCO was	\$1,951,153	
The Scope of Work will be changed by this PCO	\$3,950 *	
The new Scope of Work including this PCO will be	\$1,955,103	

The Overall Schedule will be changed by TBD Days

The Date of Project Completion as of the date of this PCO therefore is TBD

This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

**NOT VALID UNTIL SIGNED BY THE WALDRON'S PM and VMEU's PM.
 ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**

*Note

Subject to Vineland
 City Council
 Approval of Change
 Order

Waldron Engineering & Construction
 Engineer/Contractor (Firm Name)

Vineland Municipal Electric Utility
 Owner (Firm Name)

37 Industrial drive Exeter, NH, 03833
 Address

211 N. West Ave, Vineland, NJ, 08362-1508
 Address

 By (signature)

 By (signature)

Jeremy P. Smith
 (typed name)

Peter Kudless
 (typed name)

10/21/14
 Date

10/30/14
 Date

Engineer's Change Notice
ECN NO.
ENGINEER / CONSULTANT
CONTRACTOR: C&H

OWNER: Vineland Municipal Electric Company (VMEU) **010**
Waldron Engineering and Construction
Construction of Clayville Unit 1 Package

PROJECT: Clayville
Unit 1

DATE: August 25, 2014

OWNER: VMEU
411 N. West Ave
Vineland, NJ 08360

ENGINEER: Waldron Engineering and
Construction
37 Industrial Drive
Exeter, NH 03833

CONTRACTOR: To Be determined

PROJECT NO: 293.01

A. This Engineer's Change Notice is issued to clarify and/or amend the Contract Documents in accordance with the description below, and to the level of authorization checked as follows:

Proceed with work only if the Contract Sum and/or Time is not increased by this instruction. Contractor should immediately notify Engineer, submit an itemized quotation and obtain the Owner's authorization prior to proceeding with the work, if an increase will result from this instruction.

Submit an itemized quotation for changes to the Contract Sum and/or Time, for the Owner's further consideration and authorization prior to proceeding with the work.

Proceed with this work. Submit an itemized quotation for Change to the Contract Sum and/or Time (if any), for the Engineer's and Owner's review and approval. (This instruction requires the Owner's Authorization in Section C, below.)

When filled out, the estimate(s) and /or method of determining the change in contract sum/time, if applicable, is based upon the following information provided by the Contractor:

Method of Determining Change in the Contract Sum:
___ Lump Sum, ___ Unit Prices, ___ Cost Plus Fee, ___ Other (Described) _____.

Change in Contract Sum of \$ _____ . ___ Fixed, ___ Estimated, ___ Maximum

Change in Contract Time of _____ . ___ Fixed, ___ Estimated, ___ Maximum

When checked, it is expected by WEC that this ECN will result in:

No change in Contract Sum.

A price adjustment to the Contract Sum for which the Contractor's quotation must be fully substantiated for WEC review and recommendation to the Client. If this ECN results in a price adjustment, the Owner's Authorization, below, must be received prior to proceeding with the work.

B. Description of Clarification or Change: Cost, Schedule, Quality:
See Page 2

Copies of drawings, or other documents, are ___ forwarded separately ___ not required ___ attached.

C ISSUED: Waldron Engineering and
Construction, Inc

Authorized: VMEU

By: _____
LDE/PM

By: _____

Description of Clarification or Change: Cost, Schedule, and Quality:

Engineer's Change Notice
ECN NO.
ENGINEER / CONSULTANT
CONTRACTOR: C&H

OWNER: Vineland Municipal Electric Company (VMEU) **010**
Waldron Engineering and Construction
Construction of Clayville Unit 1 Package

PROJECT: Clayville
Unit 1

DATE: August 25, 2014

OWNER: VMEU
411 N. West Ave
Vineland, NJ 08360

ENGINEER: Waldron Engineering and
Construction
37 Industrial Drive
Exeter, NH 03833

CONTRACTOR: To Be determined

PROJECT NO: 293.01

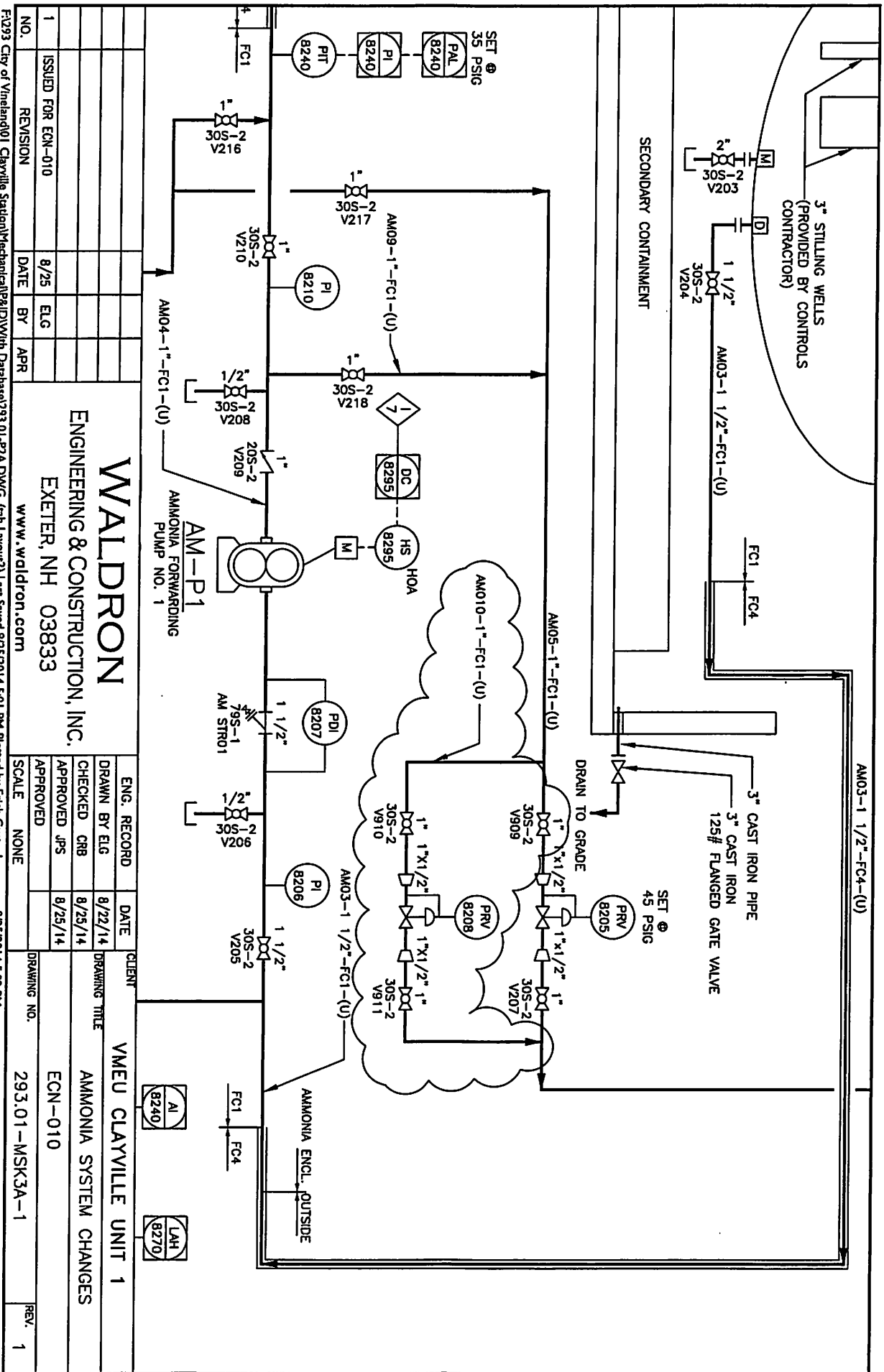
(Attach document mark-ups or sketches, as appropriate.)

Summary/Description of change:

1. VMEU requests to improve the system reliability per recent operating experience with Unit #11 by adding an additional backpressure regulator and required isolation valves to be installed in parallel to the single regulator already shown in the Ammonia pump recirculation line. Refer to drawing 293.01-MSK3A-1 (attached) for more details on scope of this change.
2. Regulators shall both be Jordan Valve MK51 backpressure regulators, Part No. 51-050-S6-PTS3V662S6MD per Submittal Review Record CHI-192.
3. Ammonia pumps shall be substituted with Pulsafeeder Isochem Model GMC4-ACE-KKF with Magnetic Drive per Submittal Review Record CHI-192.

Drawings/Additional Documents:

1. 293.01-MSK3A-1 Ammonia System Changes for ECN-010



NO.	REVISION	DATE	BY	APR
1	ISSUED FOR ECN-010	8/25	ELG	

WALDRON
ENGINEERING & CONSTRUCTION, INC.
EXETER, NH 03833
www.waldron.com

ENG. RECORD	DATE	CLIENT
DRAWN BY ELG	8/22/14	VMEU CLAYVILLE UNIT 1
CHECKED CRB	8/25/14	
APPROVED JPS	8/25/14	
APPROVED		

DRAWING TITLE	DRAWING NO.	REV.
AMMONIA SYSTEM CHANGES	293.01 - MSK3A-1	1

F:\293 City of Vineyard01 Clayville Station\Mechanical\BID\With Databas\293.01-2A.DWG (cab Layout2) Last Saved 8/25/2014 5:01 PM Plotted by Erich Gustenhoven on 8/25/2014 5:02 PM

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	39
	_____	Date:	12/12/2014
To Owner:	_____	Waldron Project Code:	293.01
	<u>Vineland Municipal Electrical Utility</u>	Purchase Order Date:	10/18/2012
	_____	PO #:	12-007250
	_____	Waldron Milestone #	55

THIS PCO IS FOR THE FOLLOWING:

This PCO adjusts the work for additional work on the RFP process, due to extensive delays in other sections of the RFP process
The contract needed to be adjusted to allow for this.

This scope includes work by Waldron personnel.
This work had an estimate of \$5600, and is billed at actual of \$5,665

This PCO does not have a man-hour sheet.
This PCO is subject to Terms & Conditions, mark-ups, and retainage as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$393,912	Does not include Pending PCO's
The Scope of Work prior to this PCO was	\$2,047,162	
The Scope of Work will be changed by this PCO	\$5,665 *	
The new Scope of Work including this PCO will be	\$2,052,827	

The Overall Schedule will be changed by TBD Days
The Date of Project Completion as of the date of this PCO therefore is TBD
This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

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ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**

*Note
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City Council
Approval of Change
Order

Waldron Engineering & Construction
Engineer/Contractor (Firm Name)

37 Industrial drive Exeter, NH, 03833
Address

Vineland Municipal Electric Utility
Owner (Firm Name)

211 N. West Ave, Vineland, NJ, 08362-1508
Address

By (signature)

By (signature)

Jeremy P. Smith
(typed name)

Peter Kudless
(typed name)

Date

12/12/14
Date

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>39</u>
		Date:	<u>12/12/2014</u>
		Waldron Project Code:	<u>293.01</u>
		Purchase Order Date:	<u>10/18/2012</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	PO #:	<u>12-007250</u>
		Waldron Milestone #	<u>55</u>

THIS PCO IS FOR THE FOLLOWING:

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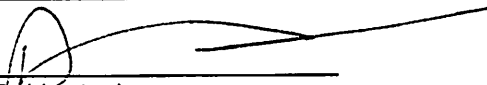
*Note
Subject to Vineland
City Council
Approval of Change
Order

Waldron Engineering & Construction
Engineer/Contractor (Firm Name)

Vineland Municipal Electric Utility
Owner (Firm Name)

37 Industrial drive Exeter, NH, 03833
Address

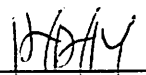
211 N. West Ave. Vineland, NJ, 08362-1508
Address


By (signature)

By (signature)

Jeremy P. Smith
(typed name)

Peter Kudless
(typed name)



Date

Date

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>35</u>
		Date:	<u>12/12/2014</u>
		Waldron Project Code:	<u>293.01</u>
		Purchase Order Date:	<u>10/18/2012</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	PO #:	<u>12-007250</u>
		Waldron Milestone #	<u>51</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO adjusts the work for commentary that was delivered out-of-sequence, due to regulatory delays
The contract needed to be adjusted to allow for this.

This scope includes work by Waldron personnel.
This work had an estimate of \$3456, and is billed at actual of \$3,456

This PCO does not have a man-hour sheet.
This PCO is subject to Terms & Conditions, mark-ups, and retainage as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$393,912	Does not include Pending PCO's
The Scope of Work prior to this PCO was	\$2,047,162	
The Scope of Work will be changed by this PCO	\$3,456 *	
The new Scope of Work including this PCO will be	\$2,050,618	

The Overall Schedule will be changed by TBD Days
The Date of Project Completion as of the date of this PCO therefore is TBD
This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

**NOT VALID UNTIL SIGNED BY THE WALDRON'S PM and VMEU's PM.
ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**


*Note
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City Council
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Order

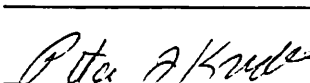
Waldron Engineering & Construction
Engineer/Contractor (Firm Name)

Vineland Municipal Electric Utility
Owner (Firm Name)

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Address

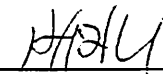
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Address


By (signature)


By (signature)

Jeremy P. Smith
(typed name)

Peter Kudless
(typed name)


Date

12/12/14
Date

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>35</u>
		Date:	<u>12/12/2014</u>
		Waldron Project Code:	<u>293.01</u>
		Purchase Order Date:	<u>10/18/2012</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	PO #:	<u>12-007250</u>
		Waldron Milestone #	<u>51</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO adjusts the work for commentary that was delivered out-of-sequence, due to regulatory delays
The contract needed to be adjusted to allow for this.

This scope includes work by Waldron personnel.
This work had an estimate of \$3456, and is billed at actual of \$3,456

This PCO does not have a man-hour sheet.
This PCO is subject to Terms & Conditions, mark-ups, and retainage as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250	
The net change by previous PCOs is	\$393,912	Does not include Pending PCO's
The Scope of Work prior to this PCO was	\$2,047,162	
The Scope of Work will be changed by this PCO	\$3,456 *	
The new Scope of Work including this PCO will be	\$2,050,618	

The Overall Schedule will be changed by TBD Days
The Date of Project Completion as of the date of this PCO therefore is TBD
This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

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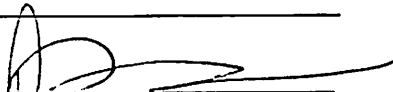
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Owner (Firm Name)

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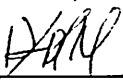
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Address


By (signature)

By (signature)

Jeremy P. Smith
(typed name)

Peter Kudless
(typed name)



Date

Date

WALDRON ENGINEERING & CONSTRUCTION, Inc.

POTENTIAL CHANGE ORDER (PCO) FOR WORK OUTSIDE OF ORIGINAL SCOPE OF WORK

Project:	<u>Clayville Unit 1</u>	PCO #:	<u>23</u>
		Date:	<u>10/21/2014</u>
		Waldron Project Code:	<u>293.01</u>
To Owner:	<u>Vineland Municipal Electrical Utility</u>	Purchase Order Date:	<u>10/18/2012</u>
		PO #:	<u>12-007250</u>
		Waldron Milestone #	<u>39</u>

THIS PCO IS FOR THE FOLLOWING:

This PCO covers work on the potential change order item identified in the project review reports for additional services for work relating to the ABB Factory Acceptance test (FAT)

The Clayville contract has attendance at FAT's priced as individual potential adders
 This scope includes work by Waldron personnel and this price includes all required expenses and follow-up reports
 This impact has an estimate of thirteen thousand and six hundred (\$13,600)

This PCO utilizes the man-hour rates (attached)
 This PCO is subject to Terms & Conditions, mark-ups, and retain age as specified in the original Purchase Order.

The original Scope of Work was	\$1,653,250
The net change by previous PCOs is	\$297,903
The Scope of Work prior to this PCO was	\$1,951,153
The Scope of Work will be changed by this PCO	\$13,600
The new Scope of Work including this PCO will be	\$1,964,753

The Overall Schedule will be changed by TBD Days
 The Date of Project Completion as of the date of this PCO therefore is TBD
 This PCO will be rolled into the single monthly invoice for PO 12-007250 but tracked separately as a Milestone as noted above

**NOT VALID UNTIL SIGNED BY THE WALDRON'S PM and VMEU's PM.
 ORIGINAL OF THIS DOCUMENT MUST BE MAILED TO PETER KUDLESS**

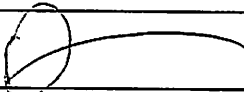
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Waldron Engineering & Construction
 Engineer/Contractor (Firm Name)

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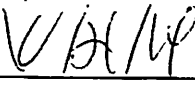


 By (signature)



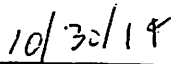
 By (signature)

Jeremy P. Smith
 (typed name)



 Date

Peter Kudless
 (typed name)



 Date

Kudless Peter J.

B/U for WEC PCO #23

From: Jeremy Smith <JSmith@waldron.com>
Sent: Thursday, October 30, 2014 1:52 PM
To: Kudless Peter J.; Davis Jeffrey M

ABB FAT test

	Occurrences	Man-hours	Rate (2012)	Final	Expenses	Occurance
Reports	1	4	195	\$780.00		1
FAT	4	10	165	\$6,600.00		2
Travel time	2	8	165	\$2,640.00		1
			Labor Total	\$10,020.00		1
			Expenses	\$3,490.00		1
			Expen MU	\$349.00		1
			WECI Total	\$13,859.00		

Jeremy P. Smith, PE
PROJECT MANAGER

WALDRON ENGINEERING & CONSTRUCTION, INC.
37 INDUSTRIAL DRIVE, SUITE G-1
EXETER, NH 03833
T:[603] 772-7153 x105
C:[603] 770-0842
jsmith@waldron.com

Waldron Engineering & Construction, Inc. Fee Schedule

LABOR CATEGORY	BILLING RATE EFFECTIVE THROUGH DECEMBER 31, 2014
Project Manager	\$203.00
Construction Manager	\$182.00
Senior Project Engineer	\$164.00
Project Engineer	\$135.00
Design Engineer	\$135.00
Designer	\$118.00
Construction Supervisor	\$155.00
Construction Coordinator-Project Controls	\$112.00
Commissioning Engineer	\$156.00
Administrative	\$66.00

For 2015 it is estimated that the above rates will increase by approximately 3.5%