



**Case No.: 16-1411 -EL-EEC**

Mercantile Customer: **Air Products and Chemicals Inc**

Electric Utility: **Duke Energy**

Program Title or Description: **Plant A to Plant D Replacement**

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs in accordance with the Commission's pilot program established in Case No. [10-834-EL-POR](#)

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up the issuance of a Commission order.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

Any confidential or trade secret information may be submitted to Staff on disc or via email at [ee-pdr@puc.state.oh.us](mailto:ee-pdr@puc.state.oh.us).

## Section 1: Mercantile Customer Information

Name: **Air Products and Chemicals Inc**

Principal address: **7201 Hamilton Boulevard  
Allentown, PA 18195**

Address of facility for which this energy efficiency program applies:

**2500 Yankee Rd Bldg C  
Middletown, OH 45044-7652**

Name and telephone number for responses to questions:

**Andrew Taylor, (317)838-2096**

Electricity use by the customer (check the box(es) that apply):

- The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (**Refer to Appendix A for documentation.**)
- The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

## Section 2: Application Information

A) The customer is filing this application (choose which applies):

- Individually, without electric utility participation.
- Jointly with the electric utility.**

B) The electric utility is: **Duke Energy**

C) The customer is offering to commit (check any that apply):

- Energy savings from the customer's energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
- Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
- Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)**

### Section 3: Energy Efficiency Programs

A) The customer's energy efficiency program involves (check those that apply):

- Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)).

Replaced Plant A with Plant D in January 2013.

- Installation of new equipment to replace equipment that needed to be replaced. The customer installed new equipment on the following date(s):  
\_\_\_\_\_.
- Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):  
\_\_\_\_\_.
- Behavioral or operational improvement.

B) Energy savings achieved/to be achieved by the energy efficiency program:

- 1) If you checked the box indicating that the project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) - (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

**Annual savings: 34,208,718 kWh**  
**Refer to Appendix B for calculations and supporting document**

- 2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: \_\_\_\_\_kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment.

- 3) If you checked the box indicating that the project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: \_\_\_\_\_kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment.

- 4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

Annual savings: \_\_\_\_\_kWh

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## Section 4: Demand Reduction/Demand Response Programs

A) The customer's program involves (check the one that applies):

- Coincident peak-demand savings from the customer's energy efficiency program.**
- Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
- Potential peak-demand reduction (check the one that applies):
  - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
  - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.

B) On what date did the customer initiate its demand reduction program?

**The new Plant D was completed in January 2013.**

C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

**3,905.1 kW**

**Refer to Appendix B for calculations and supporting documentation.**

## Section 5: Request for Cash Rebate Reasonable Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

A) The customer is applying for:

**Option 1: A cash rebate reasonable arrangement.**

OR

Option 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR

Commitment payment

B) The value of the option that the customer is seeking is:

Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):

A cash rebate of **\$1,404,586. Refer to Appendix C for documentation.** (Rebate shall not exceed 50% project cost.)

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.

An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for \_\_\_\_\_ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

A commitment payment valued at no more than \$\_\_\_\_\_. (Attach documentation and

calculations showing how this payment amount was determined.)

OR

- Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of the customer's ongoing efficiency program. (Attach documentation that establishes the ongoing nature of the program.) In order to continue the exemption beyond the initial 24 month period, the customer will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

### Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

- Total Resource Cost (TRC) Test. The calculated TRC value is: \_\_\_\_\_ (Continue to Subsection 1, then skip Subsection 2)
- Utility Cost Test (UCT) . The calculated UCT value is **17.69** (Skip to Subsection 2.) **Refer to Appendix D for calculations and supporting documents.**

#### Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were \_\_\_\_\_.

Our program costs were \_\_\_\_\_.

The incremental measure costs were \_\_\_\_\_.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were **\$32,881,768.**

The utility's program costs were **\$454,308.**

The utility's incentive costs/rebate costs were **\$1,404,586.**

**Refer to Appendix D for calculations and supporting documents.**

### **Section 7: Additional Information**

Please attach the following supporting documentation to this application:

Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.

A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:

- 1) any confidentiality requirements associated with the agreement;
- 2) a description of any consequences of noncompliance with the terms of the commitment;
- 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
- 4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
- 5) a commitment by the customer to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.

#### **Refer to Offer Letter following this application**

A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.



38202030 01		
AIR PRODUCTS AND CHEMICALS INC		
2500 YANKEE RDBLDG: C MISC: PLANT		
MIDDLETOWN, OH 45044		
Date	Days	Actual KWH
12/31/2015	31	27,487,260
11/30/2015	31	27,269,532
10/30/2015	30	26,515,908
9/30/2015	30	26,710,524
8/31/2015	31	26,946,252
7/31/2015	31	27,413,676
6/30/2015	32	25,602,624
5/29/2015	29	24,958,861
4/30/2015	30	26,452,944
3/31/2015	32	28,190,052
2/27/2015	28	23,726,088
1/30/2015	30	26,078,868
<b>Total</b>		<b>317,352,589</b>



**Appendix C -Cash Rebate Calculation**

**Air Products Plant A to Plant D Replacement**

<b>Measure</b>	<b>Quantity</b>	<b>Cash Rebate Rate</b>	<b>Cash Rebate</b>
Plant A to Plant D	1	50% of incentive that would be offered by the Smart \$aver Custom program	<b>\$1,404,586</b>
			<b>\$1,404,586</b>

**Appendix D -UCT Value**

***Air Products Plant A to Plant D Replacement***

<b>Measure</b>	<b>Total Avoided Cost</b>	<b>Program Cost</b>	<b>Incentive</b>	<b>Quantity</b>	<b>Measure UCT</b>
Plant A to Plant D	\$32,881,768	\$454,308	\$1,404,586	1	<b>17.69</b>
<b>Totals</b>	<b>\$32,881,768</b>	<b>\$454,308</b>	<b>\$1,404,586</b>	<b>1</b>	

Total Avoided Supply Costs	\$32,881,768	<b><i>Aggregate Application UCT</i></b>	<b><i>17.69</i></b>
Total Program Costs	\$454,308		
Total Incentive	\$1,404,586		



4/1/2016

Mark Zimmerman  
AIR PRODUCTS AND CHEMICALS INC - 3820203001  
2500 YANKEE RD BLDG C  
MIDDLETOWN OH 45044-7652

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate CMO15-0000072061

Dear Mark Zimmerman,

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page 2, a total rebate of \$1,404,586.00 has been proposed for your project completed in the 2013 calendar years. **All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).**

At your earliest convenience, please indicate if you accept this rebate by:

- providing your signature on Page 2
- completing the PUCO-required affidavit on Page 3

Please return the documents to my attention via fax at 513.629.5572 or email to customprocessing@duke-energy-energyefficiency.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. Following PUCO's approval, Duke Energy will remit payment.

We value your business and look forward to working with you on this and future energy efficiency projects. We hope you will consider our Smart Saver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew Taylor", with a long horizontal flourish extending to the right.

Andrew Taylor  
Program Manager  
Custom Incentives

cc: Bob Bandenburg



## Proposed Rebate Amounts

Measure ID	Energy Conservation Measure	Proposed Rebate Amount
ECM-1	New Plant D Production	\$1,404,586.00 per project X 1
	Total	<b>\$1,404,586.00</b>



Smart Saver® Incentive Program

phone: 866.380.9580

fax: 980.373.9755

[customprocessing@duke-energy-energyefficiency.com](mailto:customprocessing@duke-energy-energyefficiency.com)

3/14/2016

Mark Zimmerman  
AIR PRODUCTS AND CHEMICALS INC - 3820203001  
2500 YANKEE RD BLDG C  
MIDDLETOWN OH 45044-7652

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate CMO15-0000072061

Dear Mark Zimmerman,

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page 2, a total rebate of \$1,404,586.00 has been proposed for your project completed in the 2013 calendar years. **All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).**

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We value your business and look forward to working with you on this and future energy efficiency projects. We hope you will consider our Smart Saver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

Andrew Taylor  
Program Manager  
Custom Incentives

cc: Bob Bandenburg



**Please indicate your response to this rebate offer  
within 30 days of receipt.**

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Rebate is accepted.

Rebate is declined.

By accepting this rebate, AIR PRODUCTS AND CHEMICALS INC - 3820203001 affirms its intention to commit and integrate the energy efficiency projects listed on the following pages into Duke Energy's peak demand reduction, demand response and/or energy efficiency programs.

Additionally, AIR PRODUCTS AND CHEMICALS INC - 3820203001 also agrees to serve as joint applicant in any future filings necessary to secure approval of this arrangement as required by PUCO and to comply with any information and reporting requirements imposed by rule or as part of that approval.

Finally, AIR PRODUCTS AND CHEMICALS INC - 3820203001 affirms that all application information submitted to Duke Energy pursuant to this rebate offer is true and accurate. Information in question would include, but not be limited to, project scope, equipment specifications, equipment operational details, project costs, project completion dates, and the quantity of energy conservation measures installed.

If rebate is accepted, will you use the monies to fund future energy efficiency and/or demand reduction projects?  Yes  No



Customer Signature

Mark R. Zimmerman 4/7/2016

Printed Name

Date





## Proposed Rebate Amounts

Measure ID	Energy Conservation Measure	Proposed Rebate Amount
ECM-1	New Plant D Production	\$1,404,586.00 per project X 1
	Total	<b>\$1,404,586.00</b>



Application to Commit Energy Efficiency/Peak Demand Reduction Programs

Case No.: \_\_\_\_ - \_\_\_\_ -EL-EEC 16-1411-EL-EEC

State of \_\_\_\_\_ :

\_\_\_\_\_, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Air Products and Chemicals, Inc. (INSERT CUSTOMER OR EDU COMPANY NAME AND ANY APPLICABLE NAME(S) DOING BUSINESS AS)

2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

3. I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.

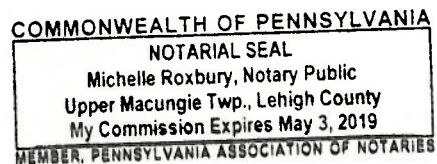
Mark R. Zuma (SIGNATURE OF AFFIANT & TITLE)

Sworn and subscribed before me this 7th day of April, 2016 (DAY MONTH YEAR)

Michelle Roxbury (SIGNATURE OF OFFICIAL ADMINISTERING OATH)

Michelle Roxbury, Notary Public (PRINT NAME AND TITLE)

My commission expires on May 3, 2019 (DATE)



**Mercantile Self Direct  
Nonresidential Custom Rebate  
Application  
PART 1**



**Ohio Mercantile Self Direct Program**

Application Guide & Cover Sheet

Questions? Call 1-866-380-9580 or visit [www.duke-energy.com](http://www.duke-energy.com).

Email this form along with completed Mercantile Self Direct Prescriptive or Custom applications, proof of payment, energy savings calculations and spec sheets to [SelfDirect@Duke-Energy.com](mailto:SelfDirect@Duke-Energy.com). You may also fax to 1-513-629-5572.

Mercantile customers, defined as using at least 700,000 kWh annually or having an account in multiple locations are eligible for the Mercantile Self Direct program. Indicate which applies:

- a single Duke Energy Ohio account with 700,000 kWh annual usage
- an account with multiple locations

Please list Duke Energy account numbers below (attach listing of multiple accounts and/or billing history for other utilities as required):

Account Number	Annual Usage	Account Number	Annual Usage
3820203001	700,600		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart \$aver® Custom Incentive. Self Direct rebates are applicable to Prescriptive measures that were installed more than 90 days prior to submission to Duke Energy and have not previously received a Duke Energy Prescriptive rebate.

Self Direct Program rules allow for, though do not require, certain projects that are Prescriptive in nature under the Smart \$aver program to be evaluated using the Custom process in the Self Direct program. Use the list on page two as a guide to determine which Self Direct program best fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet.

Self Direct Program rules also allow for behaviorally based and/or no cost and low cost projects to receive rebates.

Please check each box to indicate completion/inclusion of the following program requirements:

<input checked="" type="checkbox"/> All sections of appropriate application(s) are completed	<input checked="" type="checkbox"/> Proof of payment.*	<input type="checkbox"/> Manufacturer's Spec sheets N/A	<input checked="" type="checkbox"/> Energy model/calculations and detailed inputs for Custom applications
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\*If a single payment record is intended to demonstrate the costs of both Prescriptive & Custom projects, please include an additional document with an estimated breakout of costs for each Prescriptive and Custom energy conservation measure.

\*\*Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application. Rebates for such projects may be small in magnitude.

**Mercantile Self Direct  
Nonresidential Custom Rebate  
Application  
PART 1**



Application Type	Prescriptive Measures with Optional Custom Processing
Heating & Cooling and Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	<input type="checkbox"/> Energy Star Window/Sleeve/Room AC <input type="checkbox"/> Air Source Heat Pump Water Heater <input type="checkbox"/> Central Air Unit
	<input type="checkbox"/> Setback/Programmable Thermostat <input type="checkbox"/> Window Film <input type="checkbox"/> Guestroom Energy Management Control
Chillers & Thermal Storage	<input type="checkbox"/> Air Cooled Chiller <input type="checkbox"/> Water Cooled Chiller
Motors, Pumps and Variable Frequency Drives (VFDs)	<input type="checkbox"/> VFD – Applied to Process Pump <input type="checkbox"/> VFD – applied to HVAC Fan <input type="checkbox"/> VFD – Applied to HVAC Pump
Food Service	<input type="checkbox"/> ENERGY STAR Hot Food Holding Cabinet <input type="checkbox"/> Anti-Sweat Heater Control <input type="checkbox"/> Night Covers for Display <input type="checkbox"/> Cooking Equipment <input type="checkbox"/> ECM Cooler, Freezer, and Display Case Motors <input type="checkbox"/> ENERGY STAR ICE MACHINE <input type="checkbox"/> ENERGY STAR Solid or Glass Door Reach-in Freezer or Refrigerator
Process Equipment	<input type="checkbox"/> Engineered Nozzle – COMPRESSED AIR <input type="checkbox"/> Pellet Dryer Duct Insulation <input type="checkbox"/> Air compressor equipped with VFD
Chiller Tune-ups	<input type="checkbox"/> Air cooled chiller tune-up <input type="checkbox"/> Water cooled chiller tune-up

Please indicate above any Prescriptive energy conservation measures to be evaluated through the Custom process. Only Prescriptive measures listed above are eligible for this option. To receive a Self Direct Custom rebate, a detailed analysis of pre-project and post-project energy usage and project costs must be included in the application.

Although some Self Direct Prescriptive measures are eligible for evaluation through Custom processes, such an approach may not be most effective for certain measures.

*N/A*  
*WTR*

# Mercantile Self Direct Nonresidential Custom Rebate Application PART 1



Proposed energy efficiency measures may be eligible for Self-Direct Custom rebates if they clearly reduce electrical consumption and/or demand as compared to the appropriate baseline.

Before you complete this application, please note the following important criteria:

- Submitting this application does not guarantee a rebate will be approved.
- Rebates are based on electricity conservation only.
- Electric demand and/or energy reductions must be well documented with auditable calculations.
- Incomplete applications cannot be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, beginning on page 6.

## Notes on the Application Process

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact your Duke Energy Ohio, Inc account manager or the Duke Energy Self Direct team at 1-866-380-9580.

Every application must include calculations of the baseline electrical usage and the electrical usage of the proposed high-efficiency equipment/system. These calculations are performed and submitted by the Duke Energy Ohio customer, or your designated equipment vendor / engineer. Application Part 2 worksheets and page 6 of this application contain additional guidance on acceptable calculations. *Complex or unique projects may require the use, at the applicant's expense, of modeling software.* Please contact the Duke Energy Self Direct team with questions about these requirements.

If you do not receive an acknowledgement email within 1 day of submitting an application via online, email, or fax, or within 1 week of sending an application via mail, please call 1-866-380-9580. The acknowledgement email will provide with an estimated response time based on an initial assessment of your application. The application review may include some communication to resolve any questions about the project or to request additional information. Applications that are received complete without missing information have a faster review time.

There are two ways to submit your completed application form and excel worksheets.

Email: Complete, sign, scan and send this application form and attachments to:  
[SelfDirect@duke-energy.com](mailto:SelfDirect@duke-energy.com) (Note attachment size limit is applicable)

Fax: 513-629-5572

**Mercantile Self Direct  
Nonresidential Custom Rebate  
Application  
PART 1**



**1. Contact Information (Required)**

Duke Energy Customer Contact Information					
Company Name	Air Products and Chemicals				
Address	7201 Hamilton Blvd				
City	Allentown	State	PA	Zip Code	18195
Project Contact	Mark Zimmerman				
Title	Energy Manager				
Office Phone	610-481-1298	Mobile Phone	908-655-6879	Fax	
E-mail Address	zimmermr@airproducts.com				

Equipment Vendor / Contractor / Architect / Engineer Contact Information					
Company Name	various				
Address					
City		State		Zip Code	
Project Contact	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Demos Pappas			
Title	Plant Process Engineer				
Office Phone	610-481-8422	Mobile Phone		Fax	
E-mail Address	pappasdc@airproducts.com				

Who is the primary point of contact for technical questions? <sup>1</sup>	
---	--

Payment Information	
If an incentive is awarded, who should receive payment? <sup>2</sup>	
<input checked="" type="checkbox"/> Customer <input type="checkbox"/> Vendor (Customer must sign below)	
I hereby authorize payment of incentive directly to the vendor:	
Customer Signature _____	Date ____ / ____ / ____ (mm/dd/yyyy)
Tax ID Number for Payee Provide W-9 for Payee	

<sup>1</sup> Note that if the vendor is the primary point of contact, the customer will still be copied on all application correspondence. If the customer does not wish to be copied, the customer must provide a signed waiver indicating an entity acting as agent for the customer. Duke Energy does not act as agent.

<sup>2</sup> If payment is to be made to an entity other than the Duke Energy account holder or the vendor, a payment waiver is required and will be provided for customer signature.

**Mercantile Self Direct  
Nonresidential Custom Rebate  
Application  
PART 1**



**3. Signature**

**(Required – must be signed by Duke Energy customer)**

**Customer Consent to Release of Personal Information**

I, (insert name) Mark R. Zimmerman, do hereby consent to Duke Energy disclosing my Duke Energy Ohio, Inc Account Number and Federal Tax ID Number to its subcontractors solely for the purpose of administering Duke Energy Ohio's Mercantile Self-Direct Program. I understand that such subcontractors are contractually bound to otherwise maintain my Duke Energy Ohio, Inc Account Number and Federal Tax ID Number in the strictest of confidence.

I realize that under the rules and regulations of the public utilities commission, I may refuse to allow Duke Energy Ohio, Inc to release the information set forth above. By my signature, I freely give Duke Energy Ohio, Inc permission to release the information designated above.

**Application Signature**

I certify that I meet the eligibility requirements of the Duke Energy Ohio, Inc Mercantile Self Direct Custom Rebates Program and that all information provided within this application is correct to the best of my knowledge. I agree to the terms and conditions set forth for this program. I certify that the numbers, energy savings, and responses shown on this form are correct. Further, I certify that the taxpayer identification number is current and correct. I am not subject to backup withholding because: (a) I am exempt from backup withholding; or (b) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends; or (c) the IRS has notified me that I am no longer subject to backup withholding. I am a U.S. citizen (includes a U.S. resident alien).

Mark R. Zimmerman  
Duke Energy Ohio, Inc Customer Signature *on behalf of Air Products*

Print Name Mark R. Zimmerman

Date 12/9/2015

**Mercantile Self Direct  
Nonresidential Custom Rebate  
Application  
PART 1**



**2. Project Information (Required)**

A. Please indicate project type:

- New Construction
- Expansion at an existing facility (existing Duke Energy account number)
- Replacing equipment due to equipment failure
- Replacing equipment that is estimated to have remaining useful life of 2 years or less
- Replacing equipment that is estimated to have remaining useful life of more than 2 years
- Behavioral, operational and/or procedural programs/projects

B. Please describe your project, or attach a detailed project description that describes the project.

Replacement of "A" plant with "D" plant for  
Middletown air separation facility

C. When did you start and complete implementation?

Start date / (mm/yyyy) End date / (mm/yyyy)

06/2012

01/2013

D. Are you also applying for Self-Direct Prescriptive rebates and, if so, which one(s)<sup>3</sup>?

No

E. Please indicate which worksheet(s) you are submitting for this application (check all that apply):

- Lighting
- Variable Frequency Drive (VFD)
- Compressed Air
- Energy Management System (EMS)
- General (for projects not easily submitted using one of the above worksheets)

F. List all assumptions about the baseline and proposed equipment energy use and operation schedule, or attach a document listing that information. Attach specification sheets for all proposed new equipment.

Baseline data is "A" plant actual consumption and production.

G. Attach a supplier or contractor estimate, engineer's cost estimate, and/or other equivalent information documenting the Implementation Cost for each project listed in your application.

Does the Implementation Cost include any internal labor<sup>4</sup>? N/A If yes, please specify which costs are internal labor.

<sup>3</sup> If your project involves some equipment that is eligible for prescriptive rebates and some equipment that is likely eligible for custom rebates, and if it is feasible to separate the equipment for the energy analysis, then the equipment will be evaluated separately. If it is not feasible to separate the equipment for analysis, then the equipment will be evaluated together in the custom application.

<sup>4</sup> Internal labor costs cannot be counted in the Incremental Project Cost for purposes of analysis.



**Mercantile Self Direct  
Nonresidential Custom Rebate  
Application  
PART 1**



**Checklist for completing the Application**

INCOMPLETE APPLICATIONS WILL RESULT IN DELAYS IN DUKE ENERGY PROCESSING YOUR APPLICATION AND NOTIFYING YOU CONCERNING ANY REBATES. Before submitting the application and the required supplementary information, use the following checklist to ensure that your application is complete and the information in the application is accurate. (Note: this checklist is for your use only – do not submit this checklist with your application)

Section No. & Title	Have You:
1. Contact Information	<input checked="" type="checkbox"/> Completed the contact information for the Duke Energy customer? <input checked="" type="checkbox"/> Completed the contact information for the equipment vendor / project engineer that can answer questions about the technical aspects of the project, if that is a different person than above?
2. Project Information	<input checked="" type="checkbox"/> Answered the questions A-G, including providing a description of your project. <input checked="" type="checkbox"/> Completed and attached the lighting, compressed air, VFD, EMS and/or General worksheet(s)? <input checked="" type="checkbox"/> Attached a supplier or contractor estimate, engineer's cost estimate, and/or other equivalent information documenting the Implementation Cost for <b>each</b> project listed in your application? (Note: self-install costs cannot be included in the Implementation Cost)
3. Signature	<input checked="" type="checkbox"/> Signed your name? <input checked="" type="checkbox"/> Printed your name? <input checked="" type="checkbox"/> Entered the date?
Supplementary information (Required)	<input checked="" type="checkbox"/> (If submitting the General Worksheet) attached calculations documenting the energy usage and energy savings for <b>each</b> project listed in your application?

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact:

- your Duke Energy account manager
- or,
- the Duke Energy Self Direct team at 1-866-380-9580.

Submit your completed, signed application with attachments via email or fax:

Email: [SelfDirect@duke-energy.com](mailto:SelfDirect@duke-energy.com)  
 Fax: 1-513-629-5572.

**Mercantile Self Direct  
Nonresidential Custom Rebate  
Application  
PART 1**



**Preferred Customized Calculation Tools**

Please refer to the list below of the preferred software tools to use when calculating the baseline electrical usage and the electrical usage of the proposed high-efficiency equipment or system. Click on each software tool to learn more.

<b>Software Tool</b>	<b>Category</b>
<a href="#"><u>eQuest</u></a>	Nonresidential retrofits and new construction
<a href="#"><u>EnergyPlus</u></a>	Nonresidential retrofits and new construction; Whole building simulation
<a href="#"><u>Carrier® HAP</u></a>	HVAC
<a href="#"><u>Trane® Trace™</u></a>	HVAC
<a href="#"><u>DOE OIT Pumping System Assessment Tool (PSAT)</u></a>	Pumps
<a href="#"><u>MotorMaster+</u></a>	Motors
<a href="#"><u>AirMaster</u></a>	Air compressor systems
<a href="#"><u>Emerson™ Product Selection &amp; Energy Analysis</u></a>	Refrigeration compressor retrofits using BIN analysis. <sup>2</sup> For projects of approximately 250,000 kWh or less.
<a href="#"><u>DOE2.2R</u></a>	Refrigeration measures
<a href="#"><u>SkyCalc™</u></a>	Skylighting
<a href="#"><u>BinMaker®</u></a>	Weather data analysis tool
<a href="#"><u>AFT Fathom</u></a>	Fluid flow analysis for industrial systems

# Mercantile Self Direct Nonresidential Custom Rebate Application PART 1



## Instructions/Terms/Conditions

Note: Please keep for your records- do not submit with the application

1. Energy service companies or contractors may assist in preparing the application, but an authorized representative of the customer must sign this application to be eligible to participate in the Mercantile Self Direct Program. Completion of this application does not guarantee the approval of a Self Direct Custom Rebate.
2. Once all documentation requested in this application is received by *Duke Energy Ohio, Inc*, and any follow-up information requested by *Duke Energy* is received, the rebate amount for each Energy Conservation Measure (ECM) will be communicated to the customer. The rebate amount will be based on ECM energy savings and ECM incremental installation cost.
3. All rebates require approval by the Public Utilities Commission of Ohio. *Duke Energy Ohio, Inc* will submit an application for rebate on the customer's behalf upon customer attestation to program terms, conditions and requirements as outlined in the rebate offer letter and upon customer completion of attestation documents required by the Public Utilities Commission of Ohio.
4. *Duke Energy Ohio, Inc* will issue a Self Direct Custom Rebate check, based on the approved rebate amount for each ECM, upon receiving approval from the Public Utilities Commission of Ohio. *Duke Energy Ohio, Inc* does not guarantee PUCO approval.
5. With the application, the customer must provide a list of all sites where the ECMs were installed. *Duke Energy Ohio, Inc* requests that sites of similar size, hours of operation and energy consuming characteristics be grouped together in one application for the determination of the rebate amount. The application should identify the site where each unique ECM was installed.
6. Based on the information submitted with the application and the information gathered both before and after the initial installation of the ECM, *Duke Energy Ohio, Inc* will calculate the rebate amount for each ECM.
7. *Duke Energy Ohio, Inc* may conduct random site inspections of a sample of the locations where the ECMs are installed to verify installation and operability of the ECMs and to obtain information needed to calculate the Approved Rebate Amount.
8. Customers are encouraged to retain copies of all forms, invoices and supporting documentation for their records.
9. Approved rebates are valid for 6 months from the date communicated to the customer by *Duke Energy Ohio, Inc*, subject to the expiration of measure eligibility based on project completion dates and application submission deadlines as defined by PUCO. Customers are encouraged to execute their rebate offer contracts and PUCO-required affidavits promptly to ensure eligibility is not forfeited.

**Mercantile Self Direct  
Nonresidential Custom Rebate  
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PART 1**



10. *Duke Energy Ohio, Inc* reserves the right to recover all unrecoverable costs associated with the project approval if the customer decides not to execute the rebate contract, after the project is approved by *Duke Energy Ohio, Inc*.
11. Projects financially supported by other funding sources will be evaluated on a case-by-case basis for potential partial funding from *Duke Energy Ohio, Inc*.
12. Participants must be *Duke Energy Ohio, Inc* nonresidential, mercantile customers with the project sites in the *Duke Energy Ohio, Inc* service territory.
13. Customers or trade allies may not use any *Duke Energy* logo without prior written permission.
14. Only trade allies registered with *Duke Energy* are eligible to participate.
15. All equipment must be new. Used or rebuilt equipment is not eligible for rebates. All old existing equipment must be removed on retrofit projects.
16. Disclaimers: *Duke Energy Ohio, Inc*
  - a. does not endorse any particular manufacturer, product or system design within the program;
  - b. will not be responsible for any tax liability imposed on the customer as a result of the payment of rebates;
  - c. does not expressly or implicitly warrant the performance of installed equipment. (Contact your contractor for details regarding equipment warranties.);
  - d. is not responsible for the proper disposal/recycling of any waste generated or obsolete or old equipment as a result of this project;
  - e. is not liable for any damage caused by the installation of the equipment nor for any damage caused by the malfunction of the installed equipment; and
  - f. reserves the right to change or discontinue this program at any time. The acceptance of program applications is determined solely by *Duke Energy Ohio, Inc*.

**Mercantile Self Direct  
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**2. Project Information (Required)**

A. Please indicate project type:

- New Construction
- Expansion at an existing facility (existing Duke Energy account number)
- Replacing equipment due to equipment failure
- Replacing equipment that is estimated to have remaining useful life of 2 years or less
- Replacing equipment that is estimated to have remaining useful life of more than 2 years
- Behavioral, operational and/or procedural programs/projects

MEZ  
12/9/2015

MEZ  
12/9/2015

B. Please describe your project, or attach a detailed project description that describes the project.

Replacement of "A" plant with "D" plant for Middletown air separation facility

C. When did you start and complete implementation?

Start date / (mm/yyyy)      End date / (mm/yyyy)

06/2012

01/2013

D. Are you also applying for Self-Direct Prescriptive rebates and, if so, which one(s)<sup>3</sup>?

No

E. Please indicate which worksheet(s) you are submitting for this application (check all that apply):

- Lighting
- Variable Frequency Drive (VFD)
- Compressed Air
- Energy Management System (EMS)
- General (for projects not easily submitted using one of the above worksheets)

F. List all assumptions about the baseline and proposed equipment energy use and operation schedule, or attach a document listing that information. Attach specification sheets for all proposed new equipment.

Baseline data is "A" plant actual consumption and production.

G. Attach a supplier or contractor estimate, engineer's cost estimate, and/or other equivalent information documenting the Implementation Cost for each project listed in your application.

Does the Implementation Cost include any internal labor<sup>4</sup>? N/A If yes, please specify which costs are internal labor.

<sup>3</sup> If your project involves some equipment that is eligible for prescriptive rebates and some equipment that is likely eligible for custom rebates, and if it is feasible to separate the equipment for the energy analysis, then the equipment will be evaluated separately. If it is not feasible to separate the equipment for analysis, then the equipment will be evaluated together in the custom application.

<sup>4</sup> Internal labor costs cannot be counted in the Incremental Project Cost for purposes of analysis.



The General Worksheet is part 2 of the application. Do not submit this file without submitting a completed Part1 Custom Application document file, which can be found at [www.duke-energy.com](http://www.duke-energy.com). This worksheet is for all projects that are not easily submitted through one of the other worksheets

Before you complete this application, please note the following important criteria:

- Submitting this application does not guarantee an rebate will be approved.
- Rebates already decided to proceed.
- Electric demand and/or energy reductions must be well documented with auditable calculations.
- Incomplete applications will not be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, found in the Mercantile Self Direct Custom Application Part 1 document.

**Please enter your information and data into the cells that are shaded.  
Cells in white are locked and cannot be written over.**

**Duke Energy Customer Contact Information (Match the information in Application Part 1):**

Name	Mark Zimmerman
Company	Air Products and Chemicals, Inc.

**Equipment Vendor / Project Engineer Contact Information**

Name	Demos Pappas
Company	Air Products and Chemicals, Inc.

Before proceeding with the custom application, please verify that your project is not on the Self-Direct Prescriptive application.

The prescriptive rebate applications can be found at:

<http://www.duke-energy.com/ohio-large-business/smart-saver/mercantile-self-direct.asp>

Prescriptive rebate amounts are pre-approved.





For each project, answer the following questions (use one worksheet per project)

App No.	0
Rev.	0

Project Name: Replacement of "A" Plant with "D" plant

How would you classify this project? (Place an x in all boxes that apply.)

Lighting	Heating/Cooling	Air Compressor	Energy Management System
VFD	Motors/Pumps	Process Equipment	Other, describe below: x
replacement of old plant with new plant			

**Brief Project Description**

Describe the Baseline (see note 3) Equipment/System	Describe the Proposed High Efficiency Project
Total Plant usage of old plant	New plant has a better specific power (kWh/ton produced is less, more efficient) and produces more product.

If Existing Equipment is the Baseline, how many years of useful life remain or how many years until scheduled replacement? more than 2

Detailed Project Description Attached? Yes (Required)

**Operating Hours (see note 4)**

24 x 7	Weekday		Saturday		Sunday		Weeks of Use in Year (see note 5)	Total Annual Hours of Use
	Start Hour	End Hour	Start Hour	End Hour	Start Hour	End Hour		
Yes	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM	52	8,271

**Energy Savings**

	Baseline (see Note 3)	Proposed	Savings	Describe how energy numbers were calculated
Annual Electric Energy	351,114,388 kWh	#####	42,800,452 kWh	of electricity (kWh) required by "A" plant to produce the same amount of product at
Electric Demand	0 kW	0 kW	0 kW	
Calculations attached	Yes	Yes	(Required)	

**Simple Payback**

Average electric rate (\$/kWh) on the applicable accounts (see note 6)	\$0.10
Estimated annual electric savings	\$4,280,045
Other annual savings in addition to electric savings, such as operations, maintenance, other fuels	
Incremental cost to implement the project (equipment & installation) (see note 7)	#####
Copy of vendor proposal is attached (see note 8)	Yes
Simple Electric Payback in years (see note 9)	10.16690898
Total Payback in years	10.16690898

**3 Baseline**

Retrofit projects: the existing equipment is the baseline.  
 New construction projects: the baseline is the standard option in today's market, taking into account any applicable organizational, local, state or federal codes or standards currently in effect.

**4 Operating Hours**

Describe when the equipment is typically used. If the project is proposed for more than one site, provide any variations in operating hours between the sites on a separate sheet.

**5 Weeks of Use in Year**

If the equipment is not in use 52 weeks during the year (for example, during holiday or summer break), provide an explanation of when usage is not expected and why:

**6 Average electric rate (\$/kWh)**

If you do not know your average electric rate, use \$0.10/kWh.

**7 Incremental cost to implement the project**

Costs exclude self installation costs. Retrofit projects, incremental cost is the total cost of the proposed project. New construction or where the existing equipment must be replaced anyway, then incremental cost is the premium of the proposed high efficiency project over baseline.

**8 Copy of vendor invoice is attached**

Vendor invoices detailing costs of the project are always required.  
 New construction projects or where the existing equipment must be replaced anyway, vendor proposal of baseline must also be attached.

**9 Simple Electric Payback**

If the simple electric payback is less than 1 year, the rebate structure is affected. Double check average electric rate for correct payback.



On-line days per yr  
Power Savings

350 days/yr  
0.035 \$/KWH

Date	2014	2012	delta	Avg. Daily Production	Avg. Daily Production	2014 PWR	2012 Orig PWR	2012 PWR at 2014 Prod
	SpecPwr	specPWR	specPWR	2014	2012			
Jun-14 6/2014	1.314	1.535	(0.221)	67,869,879	53,546,837	890,597	819,524	1,041,748
Jul-14 7/2014	1.364	1.555	(0.191)	65,202,921	55,537,263	881,539	857,642	1,014,095
Aug-14 8/2014	1.337	1.568	(0.231)	66,806,414	55,568,089	891,992	864,043	1,047,691
Sep-14 9/2014	1.345	1.525	(0.181)	66,952,985	55,779,553	899,693	840,733	1,021,231
Oct-14 10/2014	1.349	1.555	(0.206)	65,638,645	53,641,099	882,289	834,001	1,020,602
Nov-14 11/2014	1.336	1.486	(0.150)	66,408,746	56,695,823	886,248	842,321	986,799
Dec-14 12/2014	1.305	1.479	(0.174)	66,206,126	56,582,188	863,400	838,418	979,059
Jan-15 1/2015	1.328	1.519	(0.191)	65,381,929	56,027,688	867,169	844,262	993,358
Feb-15 2/2015	1.327	1.462	(0.135)	65,066,087	57,683,074	863,119	837,513	951,017
Mar-15 3/2015	1.315	1.468	(0.152)	67,076,588	56,747,731	881,304	833,319	984,589
Apr-15 4/2015	1.310	1.470	(0.160)	67,412,635	56,714,004	882,348	836,502	990,915
May-15 5/2015	1.354	1.546	(0.192)	65,147,106	53,425,446	881,064	820,418	1,007,103
Year Totals ->				23,192,460,154	19,481,839,867	308,313,936	293,670,303	351,114,388

Change Based on difference in Production		
Power Change	42,800,452	dKWH/yr
Savings	1,498,016	\$/yr
Change based on Straight Comparison		
Power Change	14,643,633	dKWH/yr
Production Change	3,710,620,287	SCF/yr
delta PWR	4.99%	
delta Production	19.05%	

SpecPWR4 = 3.1602 - C

Date	m/yyyy	OnSMAC	TotProd	TotPlntPW	AmbT	TotProd2	specPWR4
8/1/2011	8/2011	24	54725895	871224	79	54.73	1.58
8/2/2011	8/2011	24	55059616	868426	82	55.06	1.57
8/3/2011	8/2011	24	58189069	864366	80	58.19	1.48
8/4/2011	8/2011	24	49353289	869785	76	49.35	1.74
8/5/2011	8/2011	24	55419020	867684	78	55.42	1.57
8/6/2011	8/2011	24	52154783	863112	80	52.15	1.66
8/7/2011	8/2011	24	59205360	865532	79	59.21	1.46
8/8/2011	8/2011	24	58726017	869003	78	58.73	1.47
8/9/2011	8/2011	24	56362738	867676	75	56.36	1.54
8/10/2011	8/2011	24	54915173	874795	71	54.92	1.59
8/11/2011	8/2011	24	57785856	889255	64	57.79	1.52
8/12/2011	8/2011	24	50262299	888744	67	50.26	1.73
8/13/2011	8/2011	24	55624620	877054	75	55.62	1.56
8/14/2011	8/2011	24	53133973	878030	66	53.13	1.65
8/18/2011	8/2011	24	53594353	883616	80	53.59	1.62
8/19/2011	8/2011	24	55358840	878020	75	55.36	1.57
8/20/2011	8/2011	24	53833020	874206	74	53.83	1.62
8/21/2011	8/2011	24	58230720	871121	77	58.23	1.49
8/22/2011	8/2011	24	56907383	885163	68	56.91	1.54
8/23/2011	8/2011	24	51861366	879124	72	51.86	1.68
8/24/2011	8/2011	24	57511985	866739	80	57.51	1.50
8/25/2011	8/2011	24	57888882	875342	77	57.89	1.50
8/26/2011	8/2011	24	55211349	873431	70	55.21	1.58
8/31/2011	8/2011	24	56041767	878992	74	56.04	1.55
9/3/2011	9/2011	24	59053869	866319	83	59.05	1.46
9/4/2011	9/2011	24	58787953	875160	70	58.79	1.48
9/5/2011	9/2011	24	60045765	891880	60	60.05	1.46
9/6/2011	9/2011	24	62680688	895011	61	62.68	1.38
9/17/2011	9/2011	24	57002548	897614	59	57.00	1.54
9/18/2011	9/2011	24	55216993	893879	60	55.22	1.59
9/19/2011	9/2011	24	57747921	884490	63	57.75	1.52
9/20/2011	9/2011	24	59879055	880189	68	59.88	1.45
9/21/2011	9/2011	24	53834359	872480	68	53.83	1.62
9/22/2011	9/2011	24	51078502	876780	64	51.08	1.71
9/23/2011	9/2011	24	52503606	884196	56	52.50	1.68
9/24/2011	9/2011	24	54037124	881517	58	54.04	1.63
9/25/2011	9/2011	24	54632106	878859	64	54.63	1.61
9/26/2011	9/2011	24	57217784	880575	60	57.22	1.54
9/27/2011	9/2011	24	55475638	882285	57	55.48	1.59
9/28/2011	9/2011	24	52223592	884041	55	52.22	1.69
9/29/2011	9/2011	24	59705133	883478	60	59.71	1.47
9/30/2011	9/2011	24	55810330	886692	50	55.81	1.59
10/1/2011	10/2011	24	58046402	885254	44	58.05	1.53

10/2/2011	10/2011	24	55437200	880722	48	55.44	1.60
10/3/2011	10/2011	24	57114490	882555	56	57.11	1.55
10/4/2011	10/2011	24	53430820	879677	58	53.43	1.65
10/5/2011	10/2011	24	54255064	878766	62	54.26	1.62
10/6/2011	10/2011	24	52817307	879963	66	52.82	1.66
10/7/2011	10/2011	24	53395066	876955	65	53.40	1.64
10/8/2011	10/2011	24	54695535	879792	68	54.70	1.60
10/9/2011	10/2011	24	55249524	884483	60	55.25	1.59
10/10/2011	10/2011	24	56106587	882887	66	56.11	1.56
10/13/2011	10/2011	24	54511997	877685	58	54.51	1.62
10/14/2011	10/2011	24	51642963	881813	56	51.64	1.70
10/15/2011	10/2011	24	49036648	883272	54	49.04	1.78
10/16/2011	10/2011	24	47617609	879727	64	47.62	1.81
10/17/2011	10/2011	24	50641947	884922	54	50.64	1.73
10/18/2011	10/2011	24	49289549	885724	50	49.29	1.78
10/19/2011	10/2011	24	50957260	884180	48	50.96	1.73
10/20/2011	10/2011	24	50391113	879655	44	50.39	1.75
10/21/2011	10/2011	24	46711312	884227	48	46.71	1.85
10/22/2011	10/2011	24	46475943	884460	46	46.48	1.86
10/23/2011	10/2011	24	42325719	882772	50	42.33	1.98
10/24/2011	10/2011	24	50151206	866939	54	50.15	1.75
10/25/2011	10/2011	8	51168981	838769	54	51.17	1.66
10/26/2011	10/2011	0	49649321	839130	62	49.65	1.66
10/27/2011	10/2011	0	50897693	851589	46	50.90	1.64
10/28/2011	10/2011	0	52290594	850312	38	52.29	1.61
10/29/2011	10/2011	0	48740793	849460	42	48.74	1.71
10/30/2011	10/2011	0	51338150	849072	42	51.34	1.64
10/31/2011	10/2011	0	48814032	847052	48	48.81	1.70
11/1/2011	11/2011	0	48758883	846243	48	48.76	1.70
11/2/2011	11/2011	0	49252722	842184	53	49.25	1.68
12/10/2011	12/2011	0	55815659	840057	24	55.82	1.53
12/11/2011	12/2011	0	50789236	842856	28	50.79	1.67
12/12/2011	12/2011	0	50262479	826696	32	50.26	1.68
12/13/2011	12/2011	0	57715910	836452	36	57.72	1.46
12/14/2011	12/2011	0	53051093	836102	48	53.05	1.58
12/17/2011	12/2011	0	57174595	844306	33	57.17	1.48
12/18/2011	12/2011	0	54974717	843833	36	54.97	1.54
12/19/2011	12/2011	0	53349673	839297	42	53.35	1.58
12/20/2011	12/2011	0	57924927	841385	46	57.92	1.44
12/21/2011	12/2011	0	51392362	840558	52	51.39	1.62
12/22/2011	12/2011	0	52727912	845701	42	52.73	1.60
12/23/2011	12/2011	0	50863122	850337	36	50.86	1.66
12/24/2011	12/2011	0	55603977	852475	32	55.60	1.53
12/25/2011	12/2011	0	54915000	848508	38	54.92	1.54
12/26/2011	12/2011	0	50033274	846764	37	50.03	1.68
1/5/2012	1/2012	0	51439093	828806	38	51.44	1.64
1/12/2012	1/2012	0	56043838	833923	30	56.04	1.52

user : KUZMADJ

Explanations :  
 Commitment = PR commitment + PO commitment  
 Assigned = Actual Cost + Commitment

		Overall values							
Object Displayed in		Plan 1 USD	Budget 1 USD	Actual 1 USD	Commitment 1 USD	Assigned 1 USD	Bud-Assgn 1 USD	Plan-Assgn 1 USD	
6* PRJ EN-11-0367	MIDDLETOWN PLANT D S	\$ 44,498,623.00	\$ 53,169,216.00	\$ 43,514,829.00	\$ -	\$ 43,514,830.00	\$ 9,654,386.00	\$ 983,793.00	
5* WBS EN-11-0367-01	MIDDLETOWN PLANT D S	\$ 44,498,623.00	\$ 53,169,216.00	\$ 43,514,829.00	\$ 1.00	\$ 43,514,830.00	\$ 9,654,386.00	\$ 983,793.00	
4* NWA 20016833 0720	STI	\$ 854,738.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 854,738.00	
4* WBS EN-11-0367-01-01	Purchased Equipment	\$ 9,452,545.00	\$ 9,527,585.00	\$ 9,170,250.00	\$ -	\$ 9,170,250.00	\$ 357,334.00	\$ 282,294.00	
***NWA 20016833 1610	MAC/BAC Bus Coupler	\$ 8,542.00	\$ -	\$ 8,542.00	\$ -	\$ 8,542.00	\$ (8,542.00)	\$ -	
***NWA 20016833 1620	MAC/BAC Partial Disc	\$ 16,324.00	\$ -	\$ 16,324.00	\$ -	\$ 16,324.00	\$ (16,324.00)	\$ -	
***NWA 20016833 C161	DCAC	\$ 134,840.00	\$ -	\$ 134,775.00	\$ -	\$ 134,775.00	\$ (134,775.00)	\$ 65.00	
***NWA 20016833 C171	Chilled Water Tower	\$ 69,209.00	\$ -	\$ 129,163.00	\$ -	\$ 129,163.00	\$ (129,163.00)	\$ (59,954.00)	
***NWA 20016833 C182	TSA Vessels	\$ 324,146.00	\$ -	\$ 256,369.00	\$ -	\$ 256,369.00	\$ (256,369.00)	\$ 67,777.00	
***NWA 20016833 D111	Main Air Compressor	\$ 337,550.00	\$ -	\$ 337,550.00	\$ -	\$ 337,550.00	\$ (337,550.00)	\$ -	
***NWA 20016833 D131	Booster Air Compress	\$ 347,531.00	\$ -	\$ 309,828.00	\$ -	\$ 309,828.00	\$ (309,828.00)	\$ 37,703.00	
***NWA 20016833 E182	Reactivation Heater	\$ 84,506.00	\$ -	\$ 84,506.00	\$ -	\$ 84,506.00	\$ (84,506.00)	\$ -	
***NWA 20016833 E201	Main Heat Exchangers	\$ 747,347.00	\$ -	\$ 747,347.00	\$ -	\$ 747,347.00	\$ (747,347.00)	\$ -	
***NWA 20016833 E213	Reboilers	\$ 115,633.00	\$ -	\$ 115,633.00	\$ -	\$ 115,633.00	\$ (115,633.00)	\$ -	
***NWA 20016833 E217	Sample Vaporizer	\$ 2,933.00	\$ -	\$ 2,933.00	\$ -	\$ 2,933.00	\$ (2,933.00)	\$ -	
***NWA 20016833 E262	Compander Aftercoole	\$ 38,071.00	\$ -	\$ 38,071.00	\$ -	\$ 38,071.00	\$ (38,071.00)	\$ -	
***NWA 20016833 E401	Argon Column Condens	\$ 63,025.00	\$ -	\$ 63,025.00	\$ -	\$ 63,025.00	\$ (63,025.00)	\$ -	
***NWA 20016833 E407	Sample Vaporizer	\$ 2,933.00	\$ -	\$ 2,933.00	\$ -	\$ 2,933.00	\$ (2,933.00)	\$ -	
***NWA 20016833 E413	Argon Col O/H Conden	\$ 21,092.00	\$ -	\$ 21,092.00	\$ -	\$ 21,092.00	\$ (21,092.00)	\$ -	
***NWA 20016833 E872	LOX Dump Vaporizer	\$ 13,881.00	\$ -	\$ 13,881.00	\$ -	\$ 13,881.00	\$ (13,881.00)	\$ -	
***NWA 20016833 E875	CLAR Dump Vaporizer	\$ 15,835.00	\$ -	\$ 15,835.00	\$ -	\$ 15,835.00	\$ (15,835.00)	\$ -	
***NWA 20016833 E100	Expansion Joints	\$ 1,652.00	\$ -	\$ 1,652.00	\$ -	\$ 1,652.00	\$ (1,652.00)	\$ -	
***NWA 20016833 G161	DCAC Pumps	\$ 23,533.00	\$ -	\$ 23,533.00	\$ -	\$ 23,533.00	\$ (23,533.00)	\$ -	
***NWA 20016833 G171	Chilled Water Pumps	\$ 22,102.00	\$ -	\$ 22,102.00	\$ -	\$ 22,102.00	\$ (22,102.00)	\$ -	
***NWA 20016833 G231	G231 LOX Process Pum	\$ 251,895.00	\$ -	\$ 251,895.00	\$ -	\$ 251,895.00	\$ (251,895.00)	\$ -	
***NWA 20016833 G904	G904AC Cooling Water	\$ 102,670.00	\$ -	\$ 102,670.00	\$ -	\$ 102,670.00	\$ (102,670.00)	\$ -	
***NWA 20016833 K111	K111 Main Air Compre	\$ 2,398,648.00	\$ -	\$ 2,289,121.00	\$ -	\$ 2,289,121.00	\$ (2,289,121.00)	\$ 109,527.00	
***NWA 20016833 K131	K131 Booster Air Com	\$ 2,325,933.00	\$ -	\$ 2,219,990.00	\$ -	\$ 2,219,990.00	\$ (2,219,990.00)	\$ 105,943.00	
***NWA 20016833 N183	8	\$ 132,976.00	\$ -	\$ 132,976.00	\$ -	\$ 132,976.00	\$ (132,976.00)	\$ -	
***NWA 20016833 N184	N184 Adsorbent - Alu	\$ 69,051.00	\$ -	\$ 69,051.00	\$ -	\$ 69,051.00	\$ (69,051.00)	\$ -	
***NWA 20016833 N185	N185 Adsorbent -13X	\$ 46,769.00	\$ -	\$ 46,769.00	\$ -	\$ 46,769.00	\$ (46,769.00)	\$ -	
***NWA 20016833 P120	P120 Gas Circuit Sub	\$ 41,195.00	\$ -	\$ 41,195.00	\$ -	\$ 41,195.00	\$ (41,195.00)	\$ -	
***NWA 20016833 P130	P130 Main Transforme	\$ 237,726.00	\$ -	\$ 231,630.00	\$ -	\$ 231,630.00	\$ (231,630.00)	\$ 6,096.00	
***NWA 20016833 P150	P150 Relay Panel	\$ 106,834.00	\$ -	\$ 106,834.00	\$ -	\$ 106,834.00	\$ (106,834.00)	\$ -	
***NWA 20016833 P220	P220 Medium Voltage	\$ 191,938.00	\$ -	\$ 191,938.00	\$ -	\$ 191,938.00	\$ (191,938.00)	\$ -	
***NWA 20016833 P230	P230 Medium to Low V	\$ 40,310.00	\$ -	\$ 40,310.00	\$ -	\$ 40,310.00	\$ (40,310.00)	\$ -	
***NWA 20016833 P231	Medium to Low Voltag	\$ 40,310.00	\$ -	\$ 40,310.00	\$ -	\$ 40,310.00	\$ (40,310.00)	\$ -	
***NWA 20016833 P410	P410 Motor Control C	\$ 60,261.00	\$ -	\$ 60,261.00	\$ -	\$ 60,261.00	\$ (60,261.00)	\$ -	
***NWA 20016833 P411	Motor Control Center	\$ 54,414.00	\$ -	\$ 54,414.00	\$ -	\$ 54,414.00	\$ (54,414.00)	\$ -	
***NWA 20016833 P430	P430 Low Voltage Bus	\$ 22,086.00	\$ -	\$ 22,086.00	\$ -	\$ 22,086.00	\$ (22,086.00)	\$ -	

***NWA 20016833 P440	P440 Variable Speed	\$ 36,987.00	\$ -	\$ 36,987.00	\$ -	\$ 36,987.00	\$ (36,987.00)	\$ -
***NWA 20016833 P520	P520 UPS	\$ 8,643.00	\$ -	\$ 8,643.00	\$ -	\$ 8,643.00	\$ (8,643.00)	\$ -
***NWA 20016833 P530	P530 Constant Voltag	\$ 4,142.00	\$ -	\$ 4,142.00	\$ -	\$ 4,142.00	\$ (4,142.00)	\$ -
***NWA 20016833 P540	P540 Battery and Cha	\$ 11,551.00	\$ -	\$ 11,551.00	\$ -	\$ 11,551.00	\$ (11,551.00)	\$ -
***NWA 20016833 V102	V102 Inlet Air Filte	\$ 96,466.00	\$ -	\$ 96,466.00	\$ -	\$ 96,466.00	\$ (96,466.00)	\$ -
***NWA 20016833 V903	V903 Cooling Tower	\$ 505,487.00	\$ -	\$ 505,487.00	\$ -	\$ 505,487.00	\$ (505,487.00)	\$ -
***NWA 20016833 V911	V911 Water Treatment	\$ 115,582.00	\$ -	\$ 101,040.00	\$ -	\$ 101,040.00	\$ (101,040.00)	\$ 14,542.00
***NWA 20016833 V991	V991 Oil Water Separ	\$ 30,002.00	\$ -	\$ 30,002.00	\$ -	\$ 30,002.00	\$ (30,002.00)	\$ -
***NWA 20016833 W161	W1611 DCAC Internals	\$ 52,527.00	\$ -	\$ 51,932.00	\$ -	\$ 51,932.00	\$ (51,932.00)	\$ 595.00
***NWA 20016833 W171	W1711 Chilled Water	\$ 23,881.00	\$ -	\$ 23,881.00	\$ -	\$ 23,881.00	\$ (23,881.00)	\$ -
***NWA 20016833 W181	W1821 TSA Support Sc	\$ 29,866.00	\$ -	\$ 29,866.00	\$ -	\$ 29,866.00	\$ (29,866.00)	\$ -
***NWA 20016833 W182	W1822 TSA Internal F	\$ 23,710.00	\$ -	\$ 23,710.00	\$ -	\$ 23,710.00	\$ (23,710.00)	\$ -
4* WBS EN-11-0367-01-02	Valves & Instruments	\$ 1,978,183.00	\$ 1,998,100.00	\$ 1,942,670.00	\$ -	\$ 1,942,670.00	\$ 55,430.00	\$ 35,513.00
***NWA 20017363 J010	J010 Control Valves	\$ 607,623.00	\$ -	\$ 606,964.00	\$ -	\$ 606,964.00	\$ (606,964.00)	\$ 659.00
***NWA 20017363 J012	J012 Silencers	\$ 87,044.00	\$ -	\$ 87,044.00	\$ -	\$ 87,044.00	\$ (87,044.00)	\$ -
***NWA 20017363 J020	J020 Safety Devices	\$ 72,904.00	\$ -	\$ 72,904.00	\$ -	\$ 72,904.00	\$ (72,904.00)	\$ -
***NWA 20017363 J030	J030 DCS	\$ 284,181.00	\$ -	\$ 281,043.00	\$ -	\$ 281,043.00	\$ (281,043.00)	\$ 3,138.00
***NWA 20017363 J040	J040 Instruments	\$ 54,147.00	\$ -	\$ 54,181.00	\$ -	\$ 54,181.00	\$ (54,181.00)	\$ (34.00)
***NWA 20017363 J041	J041 Transmitters	\$ 42,763.00	\$ -	\$ 42,763.00	\$ -	\$ 42,763.00	\$ (42,763.00)	\$ -
***NWA 20017363 J050	J050 Analyzers	\$ 93,454.00	\$ -	\$ 93,454.00	\$ -	\$ 93,454.00	\$ (93,454.00)	\$ -
***NWA 20017363 J051	J051 Calibration Bot	\$ 7,940.00	\$ -	\$ 7,940.00	\$ -	\$ 7,940.00	\$ (7,940.00)	\$ -
***NWA 20017363 J053	J053 Analyzer Panel	\$ 34,233.00	\$ -	\$ 34,233.00	\$ -	\$ 34,233.00	\$ (34,233.00)	\$ -
***NWA 20017363 J054	Analyzer Building	\$ 106,701.00	\$ -	\$ 101,304.00	\$ -	\$ 101,304.00	\$ (101,304.00)	\$ 5,397.00
***NWA 20017363 J070	J070 Flowmeters	\$ 60,173.00	\$ -	\$ 60,173.00	\$ -	\$ 60,173.00	\$ (60,173.00)	\$ -
***NWA 20017363 J071	J071 Paymeter	\$ 4,924.00	\$ -	\$ 4,924.00	\$ -	\$ 4,924.00	\$ (4,924.00)	\$ -
***NWA 20017363 J100	JXXX Specialty Items	\$ 175,326.00	\$ -	\$ 175,326.00	\$ -	\$ 175,326.00	\$ (175,326.00)	\$ -
***NWA 20017363 J101	J101 Host Computer -	\$ 926.00	\$ -	\$ 926.00	\$ -	\$ 926.00	\$ (926.00)	\$ -
***NWA 20017363 L200	L200 Manual Valves	\$ 345,844.00	\$ -	\$ 319,491.00	\$ -	\$ 319,491.00	\$ (319,491.00)	\$ 26,353.00
4* WBS EN-11-0367-01-03	CryoMachinery Subpro	\$ 395,995.00	\$ 389,500.00	\$ 395,995.00	\$ -	\$ 395,995.00	\$ (6,495.00)	\$ -
***NWA 20016833 0160	K262 Expander Total	\$ 315,995.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 315,995.00
***NWA 20016833 0170	K262 Expander Total	\$ 80,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000.00
4* WBS EN-11-0367-01-04	Manufacturing Subpro	\$ 3,390,780.00	\$ 3,572,300.00	\$ 3,390,780.00	\$ -	\$ 3,390,780.00	\$ 181,520.00	\$ -
***NWA 20016833 0190	Cold Box or Column T	\$ 3,390,780.00	\$ -	\$ 3,390,780.00	\$ -	\$ 3,390,780.00	\$ (3,390,780.00)	\$ -
4* WBS EN-11-0367-01-05	Construction	\$ 17,284,604.00	\$ 19,735,000.00	\$ 17,091,026.00	\$ 1.00	\$ 17,091,027.00	\$ 2,643,973.00	\$ 193,577.00
***NWA 20016833 1230	Substation	\$ 714,061.00	\$ -	\$ 713,388.00	\$ -	\$ 713,388.00	\$ (713,388.00)	\$ 673.00
***NWA 20016833 1240	Relocated Parking	\$ 434,854.00	\$ -	\$ 491,899.00	\$ -	\$ 491,899.00	\$ (491,899.00)	\$ (57,045.00)
***NWA 20016833 1260	Relocate back-up pow	\$ 111,326.00	\$ -	\$ 109,749.00	\$ -	\$ 109,749.00	\$ (109,749.00)	\$ 1,577.00
***NWA 20016833 1270	Site Security	\$ 17,885.00	\$ -	\$ 18,045.00	\$ -	\$ 18,045.00	\$ (18,045.00)	\$ (160.00)
***NWA 20016833 1630	MAC Partial Discharg	\$ 4,118.00	\$ -	\$ 4,118.00	\$ -	\$ 4,118.00	\$ (4,118.00)	\$ -
***NWA 20016833 1640	BAC Partial Discharg	\$ 1,264.00	\$ -	\$ 1,222.00	\$ -	\$ 1,222.00	\$ (1,222.00)	\$ 42.00
***NWA 20016833 B100	B100 Building (Site)	\$ 259,334.00	\$ -	\$ 258,793.00	\$ -	\$ 258,793.00	\$ (258,793.00)	\$ 541.00
***NWA 20016833 M100	M100 Site Preparatio	\$ 750,600.00	\$ -	\$ 545,871.00	\$ -	\$ 545,871.00	\$ (545,871.00)	\$ 204,729.00
***NWA 20016833 M200	M200 Civil Contract	\$ 2,431,139.00	\$ -	\$ 2,430,434.00	\$ -	\$ 2,430,434.00	\$ (2,430,434.00)	\$ 705.00
***NWA 20016833 M310	M310 Pre-Fabricated	\$ 548,915.00	\$ -	\$ 548,915.00	\$ -	\$ 548,915.00	\$ (548,915.00)	\$ -
***NWA 20016833 M400	M400 Mechanical Cont	\$ 8,260,205.00	\$ -	\$ 8,261,069.00	\$ 1.00	\$ 8,261,070.00	\$ (8,261,070.00)	\$ (865.00)
***NWA 20016833 M450	M450 Pre-Fabricated	\$ 1,410,548.00	\$ -	\$ 1,395,498.00	\$ -	\$ 1,395,498.00	\$ (1,395,498.00)	\$ 15,050.00
***NWA 20016833 M600	M600 Electrical Cont	\$ 1,716,526.00	\$ -	\$ 1,715,754.00	\$ -	\$ 1,715,754.00	\$ (1,715,754.00)	\$ 772.00
***NWA 20016833 M700	M700 Insulation Cont	\$ 207,110.00	\$ -	\$ 156,966.00	\$ -	\$ 156,966.00	\$ (156,966.00)	\$ 50,144.00
***NWA 20016833 M905	General AP Field Cos	\$ 148,282.00	\$ -	\$ 130,739.00	\$ -	\$ 130,739.00	\$ (130,739.00)	\$ 17,543.00
***NWA 20016833 M990	M990 Construction Ch	\$ 268,437.00	\$ -	\$ 308,568.00	\$ -	\$ 308,568.00	\$ (308,568.00)	\$ (40,131.00)
4* WBS EN-11-0367-01-06	Engineering	\$ 5,974,406.00	\$ 6,606,207.00	\$ 6,157,006.00	\$ -	\$ 6,157,006.00	\$ 449,201.00	\$ (182,600.00)
***WBS EN-11-0367-01-06-01	M1 Project Managemen	\$ 1,991,794.00	\$ 2,320,146.00	\$ 2,178,201.00	\$ -	\$ 2,178,201.00	\$ 141,944.00	\$ (186,407.00)
** NWA 20016833 0690	Labor Adjust	\$ (136,073.00)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (136,073.00)

** NWA 20016833 1600	Column Joining Weldi	\$ 21,326.00	\$ -	\$ 21,326.00	\$ -	\$ 21,326.00	\$ (21,326.00)	\$ -
** NWA 20016833 A150	Safety Engineer	\$ 35,072.00	\$ -	\$ 35,068.00	\$ -	\$ 35,068.00	\$ (35,068.00)	\$ 4.00
** NWA 20016833 A700	Project Management	\$ 764,200.00	\$ -	\$ 765,165.00	\$ -	\$ 765,165.00	\$ (765,165.00)	\$ (965.00)
** NWA 20016833 A710	Project Technician	\$ 112,336.00	\$ -	\$ 139,721.00	\$ -	\$ 139,721.00	\$ (139,721.00)	\$ (27,385.00)
** NWA 20016833 A730	Project Services Cos	\$ 25,110.00	\$ -	\$ 42,956.00	\$ -	\$ 42,956.00	\$ (42,956.00)	\$ (17,846.00)
** NWA 20016833 A740	Project Development	\$ 88,309.00	\$ -	\$ 88,296.00	\$ -	\$ 88,296.00	\$ (88,296.00)	\$ 13.00
** NWA 20016833 A750	Construction Estim	\$ 121,792.00	\$ -	\$ 121,792.00	\$ -	\$ 121,792.00	\$ (121,792.00)	\$ -
** NWA 20016833 A770	Asset Management	\$ 104,913.00	\$ -	\$ 104,870.00	\$ -	\$ 104,870.00	\$ (104,870.00)	\$ 43.00
** NWA 20016833 A790	Project Services Exp	\$ 82,957.00	\$ -	\$ 82,945.00	\$ -	\$ 82,945.00	\$ (82,945.00)	\$ 12.00
** NWA 20016833 A791	Project Services Exp	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
** NWA 20016833 A810	Construction Contrac	\$ 194,426.00	\$ -	\$ 198,777.00	\$ -	\$ 198,777.00	\$ (198,777.00)	\$ (4,351.00)
** NWA 20016833 A830	General Field Constr	\$ 561,581.00	\$ -	\$ 561,445.00	\$ -	\$ 561,445.00	\$ (561,445.00)	\$ 136.00
** NWA 20016833 A83B	Construction Schedul	\$ 15,845.00	\$ -	\$ 15,840.00	\$ -	\$ 15,840.00	\$ (15,840.00)	\$ 6.00
***WBS EN-11-0367-01-06-02	MK AP Engineering	\$ 3,982,612.00	\$ 4,286,061.00	\$ 3,978,805.00	\$ -	\$ 3,978,805.00	\$ 307,256.00	\$ 3,807.00
** NWA 20016833 1280	Advanced Controls (M	\$ 39,752.00	\$ -	\$ 37,020.00	\$ -	\$ 37,020.00	\$ (37,020.00)	\$ 2,732.00
** NWA 20016833 A100	Process Engineer	\$ 452,744.00	\$ -	\$ 442,524.00	\$ -	\$ 442,524.00	\$ (442,524.00)	\$ 10,220.00
** NWA 20016833 A110	Process Systems Engi	\$ 349,939.00	\$ -	\$ 343,853.00	\$ -	\$ 343,853.00	\$ (343,853.00)	\$ 6,086.00
** NWA 20016833 A120	Flowsheet Drafting	\$ 55,009.00	\$ -	\$ 52,986.00	\$ -	\$ 52,986.00	\$ (52,986.00)	\$ 2,023.00
** NWA 20016833 A130	Technical Manual Wri	\$ 38,916.00	\$ -	\$ 38,910.00	\$ -	\$ 38,910.00	\$ (38,910.00)	\$ 7.00
** NWA 20016833 A13A	Technical Manual and	\$ 2,676.00	\$ -	\$ 2,676.00	\$ -	\$ 2,676.00	\$ (2,676.00)	\$ -
** NWA 20016833 A200	Process Controls Eng	\$ 441,973.00	\$ -	\$ 448,250.00	\$ -	\$ 448,250.00	\$ (448,250.00)	\$ (6,277.00)
** NWA 20016833 A300	Mechanical Equipment	\$ 160,534.00	\$ -	\$ 160,511.00	\$ -	\$ 160,511.00	\$ (160,511.00)	\$ 23.00
** NWA 20016833 A310	Mechanical Systems E	\$ 120,073.00	\$ -	\$ 128,442.00	\$ -	\$ 128,442.00	\$ (128,442.00)	\$ (8,369.00)
** NWA 20016833 A320	Machinery Engineer	\$ 260,042.00	\$ -	\$ 260,424.00	\$ -	\$ 260,424.00	\$ (260,424.00)	\$ (382.00)
** NWA 20016833 A560	CAD Support	\$ 13,273.00	\$ -	\$ 13,271.00	\$ -	\$ 13,271.00	\$ (13,271.00)	\$ 2.00
** NWA 20016833 A760	Supplier Document Co	\$ 71,308.00	\$ -	\$ 71,298.00	\$ -	\$ 71,298.00	\$ (71,298.00)	\$ 10.00
** NWA 20016833 A780	Source Inspection	\$ 117.00	\$ -	\$ 117.00	\$ -	\$ 117.00	\$ (117.00)	\$ -
** NWA 20016833 A781	Source Inspection- S	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
** NWA 20016833 A782	Source Inspection- T	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
** NWA 20016833 A850	Startup Engineering	\$ 145,433.00	\$ -	\$ 148,263.00	\$ -	\$ 148,263.00	\$ (148,263.00)	\$ (2,830.00)
** ORD 6000035576	CMD FIELD - MIDDLETO	\$ 3,840.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,840.00
** WBS EN-11-0367-01-06-02-01	Plant Design - Small	\$ 715,277.00	\$ 986,231.00	\$ 715,162.00	\$ -	\$ 715,162.00	\$ 271,069.00	\$ 115.00
* NWA 20016833 0320	Split box hours adde	\$ 19,750.00	\$ -	\$ 19,748.00	\$ -	\$ 19,748.00	\$ (19,748.00)	\$ 2.00
* NWA 20016833 A210	Instrument Design	\$ 36,195.00	\$ -	\$ 36,176.00	\$ -	\$ 36,176.00	\$ (36,176.00)	\$ 19.00
* NWA 20016833 A250	Electrical Engineeri	\$ 215,446.00	\$ -	\$ 215,423.00	\$ -	\$ 215,423.00	\$ (215,423.00)	\$ 23.00
* NWA 20016833 A260	Electrical Design	\$ 171,102.00	\$ -	\$ 171,083.00	\$ -	\$ 171,083.00	\$ (171,083.00)	\$ 19.00
* NWA 20016833 A440	CB Stress Eng HEX Bo	\$ 15,723.00	\$ -	\$ 15,720.00	\$ -	\$ 15,720.00	\$ (15,720.00)	\$ 3.00
* NWA 20016833 A500	Yard Civil/Structura	\$ 8,813.00	\$ -	\$ 8,812.00	\$ -	\$ 8,812.00	\$ (8,812.00)	\$ 1.00
* NWA 20016833 A505	CB Civil/Structural	\$ 15,093.00	\$ -	\$ 15,090.00	\$ -	\$ 15,090.00	\$ (15,090.00)	\$ 3.00
* NWA 20016833 A510	Yard Civil/Structura	\$ 46,312.00	\$ -	\$ 46,306.00	\$ -	\$ 46,306.00	\$ (46,306.00)	\$ 6.00
* NWA 20016833 A515	CB Civil/Structural	\$ 18,669.00	\$ -	\$ 18,663.00	\$ -	\$ 18,663.00	\$ (18,663.00)	\$ 6.00
* NWA 20016833 A530	Yard Piping Design –	\$ 16,988.00	\$ -	\$ 16,984.00	\$ -	\$ 16,984.00	\$ (16,984.00)	\$ 4.00
* NWA 20016833 A540	Yard Stress Eng	\$ 115,682.00	\$ -	\$ 115,658.00	\$ -	\$ 115,658.00	\$ (115,658.00)	\$ 24.00
* NWA 20016833 A570	Cryo Design Supervis	\$ 35,505.00	\$ -	\$ 35,500.00	\$ -	\$ 35,500.00	\$ (35,500.00)	\$ 5.00
** WBS EN-11-0367-01-06-02-02	Plant Design - Large	\$ 1,115,547.00	\$ 1,462,920.00	\$ 1,115,099.00	\$ -	\$ 1,115,099.00	\$ 347,821.00	\$ 448.00
* WBS EN-11-0367-01-06-02-02-1	Cold Box Yard Design	\$ 33,603.00	\$ 22,476.00	\$ 33,591.00	\$ -	\$ 33,591.00	\$ (11,115.00)	\$ 12.00
NWA 20016833 0330	Cold Box Yard Piping	\$ 22,186.00	\$ -	\$ 22,178.00	\$ -	\$ 22,178.00	\$ (22,178.00)	\$ 8.00
NWA 20016833 0340	Cold Box Yard Stress	\$ 6,627.00	\$ -	\$ 6,625.00	\$ -	\$ 6,625.00	\$ (6,625.00)	\$ 2.00
NWA 20016833 0350	Cold Box Yard C/S En	\$ 890.00	\$ -	\$ 890.00	\$ -	\$ 890.00	\$ (890.00)	\$ 1.00
NWA 20016833 0360	Cold Box Yard C/S De	\$ 3,899.00	\$ -	\$ 3,898.00	\$ -	\$ 3,898.00	\$ (3,898.00)	\$ 1.00
* WBS EN-11-0367-01-06-02-02-2	Vessel Engineering a	\$ 100,658.00	\$ 137,912.00	\$ 100,642.00	\$ -	\$ 100,642.00	\$ 37,270.00	\$ 16.00
NWA 20016833 A400	Vessel Eng - Cryo	\$ 70,296.00	\$ -	\$ 70,286.00	\$ -	\$ 70,286.00	\$ (70,286.00)	\$ 10.00
NWA 20016833 A410	Vessel Des - Cryo	\$ 30,363.00	\$ -	\$ 30,356.00	\$ -	\$ 30,356.00	\$ (30,356.00)	\$ 7.00

* WBS EN-11-0367-01-06-02-02-3	Plant Design Adminis	\$	981,286.00	\$	1,302,531.00	\$	980,866.00	\$	-	\$	980,866.00	\$	321,665.00	\$	419.00
NWA 20016833 0730	CB Piping Des Argon	\$	1,780.00	\$	-	\$	1,780.00	\$	-	\$	1,780.00	\$	(1,780.00)	\$	-
NWA 20016833 0740	CB Piping Des Inspec	\$	11,882.00	\$	-	\$	11,877.00	\$	-	\$	11,877.00	\$	(11,877.00)	\$	5.00
NWA 20016833 0750	CB Stress Eng HP/LP	\$	21,087.00	\$	-	\$	21,082.00	\$	-	\$	21,082.00	\$	(21,082.00)	\$	5.00
NWA 20016833 0760	CB Stress Eng Main C	\$	1,944.00	\$	-	\$	1,944.00	\$	-	\$	1,944.00	\$	(1,944.00)	\$	-
NWA 20016833 0770	CB Stress Eng Expand	\$	1,854.00	\$	-	\$	1,854.00	\$	-	\$	1,854.00	\$	(1,854.00)	\$	-
NWA 20016833 0780	CB Stress Eng Argon	\$	512.00	\$	-	\$	512.00	\$	-	\$	512.00	\$	(512.00)	\$	-
NWA 20016833 0800	CB Stress Eng Argon	\$	1,088.00	\$	-	\$	1,088.00	\$	-	\$	1,088.00	\$	(1,088.00)	\$	-
NWA 20016833 0820	Yard Piping Design	\$	44,402.00	\$	-	\$	44,394.00	\$	-	\$	44,394.00	\$	(44,394.00)	\$	8.00
NWA 20016833 0840	CB Civil/Structural	\$	25,579.00	\$	-	\$	25,572.00	\$	-	\$	25,572.00	\$	(25,572.00)	\$	7.00
NWA 20016833 0850	CB Civil/Structural	\$	833.00	\$	-	\$	833.00	\$	-	\$	833.00	\$	(833.00)	\$	-
NWA 20016833 0860	CB Civil/Structural	\$	1,422.00	\$	-	\$	1,421.00	\$	-	\$	1,421.00	\$	(1,421.00)	\$	1.00
NWA 20016833 0870	CB Civil/Structural	\$	588.00	\$	-	\$	588.00	\$	-	\$	588.00	\$	(588.00)	\$	-
NWA 20016833 0880	CB Civil/Structural	\$	1,053.00	\$	-	\$	1,053.00	\$	-	\$	1,053.00	\$	(1,053.00)	\$	-
NWA 20016833 0890	CB Civil/Structural	\$	2,361.00	\$	-	\$	2,360.00	\$	-	\$	2,360.00	\$	(2,360.00)	\$	1.00
NWA 20016833 0900	CB Civil/Structural	\$	9,016.00	\$	-	\$	9,016.00	\$	-	\$	9,016.00	\$	(9,016.00)	\$	-
NWA 20016833 0910	CB Pipe Supports HEX	\$	1,815.00	\$	-	\$	1,815.00	\$	-	\$	1,815.00	\$	(1,815.00)	\$	-
NWA 20016833 0920	CB Pipe Supports Des	\$	17,424.00	\$	-	\$	17,424.00	\$	-	\$	17,424.00	\$	(17,424.00)	\$	-
NWA 20016833 0970	CB Pipe Supports Des	\$	495.00	\$	-	\$	495.00	\$	-	\$	495.00	\$	(495.00)	\$	-
NWA 20016833 0980	CB Civil/Structural	\$	14,365.00	\$	-	\$	14,361.00	\$	-	\$	14,361.00	\$	(14,361.00)	\$	4.00
NWA 20016833 0990	CB Civil/Structural	\$	878.00	\$	-	\$	878.00	\$	-	\$	878.00	\$	(878.00)	\$	-
NWA 20016833 1000	CB Civil/Structural	\$	875.00	\$	-	\$	875.00	\$	-	\$	875.00	\$	(875.00)	\$	-
NWA 20016833 1010	CB Civil/Structural	\$	250.00	\$	-	\$	250.00	\$	-	\$	250.00	\$	(250.00)	\$	-
NWA 20016833 1020	CB Civil/Structural	\$	128.00	\$	-	\$	128.00	\$	-	\$	128.00	\$	(128.00)	\$	-
NWA 20016833 1030	CB Civil/Structural	\$	4,781.00	\$	-	\$	4,780.00	\$	-	\$	4,780.00	\$	(4,780.00)	\$	1.00
NWA 20016833 1040	CB Civil/Structural	\$	2,821.00	\$	-	\$	2,820.00	\$	-	\$	2,820.00	\$	(2,820.00)	\$	1.00
NWA 20016833 1060	Yard Civil/Structura	\$	112,674.00	\$	-	\$	112,627.00	\$	-	\$	112,627.00	\$	(112,627.00)	\$	47.00
NWA 20016833 1090	Yard Civil/Structura	\$	157,524.00	\$	-	\$	157,461.00	\$	-	\$	157,461.00	\$	(157,461.00)	\$	63.00
NWA 20016833 1100	Yard Civil/Structura	\$	149,215.00	\$	-	\$	149,137.00	\$	-	\$	149,137.00	\$	(149,137.00)	\$	78.00
NWA 20016833 1120	Yard Piping Design -	\$	25,366.00	\$	-	\$	25,355.00	\$	-	\$	25,355.00	\$	(25,355.00)	\$	11.00
NWA 20016833 1130	Yard Piping Design -	\$	19,394.00	\$	-	\$	19,386.00	\$	-	\$	19,386.00	\$	(19,386.00)	\$	8.00
NWA 20016833 1140	Yard Piping Design -	\$	17,034.00	\$	-	\$	17,027.00	\$	-	\$	17,027.00	\$	(17,027.00)	\$	7.00
NWA 20016833 1145	Yard Piping Design -	\$	9,559.00	\$	-	\$	9,555.00	\$	-	\$	9,555.00	\$	(9,555.00)	\$	4.00
NWA 20016833 1150	Yard Piping Design -	\$	24,410.00	\$	-	\$	24,400.00	\$	-	\$	24,400.00	\$	(24,400.00)	\$	11.00
NWA 20016833 1160	Yard Piping Design -	\$	28,103.00	\$	-	\$	28,091.00	\$	-	\$	28,091.00	\$	(28,091.00)	\$	12.00
NWA 20016833 1170	Yard Piping Design -	\$	22,223.00	\$	-	\$	22,214.00	\$	-	\$	22,214.00	\$	(22,214.00)	\$	9.00
NWA 20016833 1190	Yard Piping Design -	\$	22,800.00	\$	-	\$	22,790.00	\$	-	\$	22,790.00	\$	(22,790.00)	\$	10.00
NWA 20016833 1200	Yard Piping Design -	\$	105,474.00	\$	-	\$	105,420.00	\$	-	\$	105,420.00	\$	(105,420.00)	\$	54.00
NWA 20016833 1205	Yard Piping Design -	\$	15,162.00	\$	-	\$	15,154.00	\$	-	\$	15,154.00	\$	(15,154.00)	\$	8.00
NWA 20016833 1210	Yard Piping Design -	\$	19,022.00	\$	-	\$	19,012.00	\$	-	\$	19,012.00	\$	(19,012.00)	\$	10.00
NWA 20016833 1220	Yard Piping Design-E	\$	67,770.00	\$	-	\$	67,754.00	\$	-	\$	67,754.00	\$	(67,754.00)	\$	16.00
NWA 20016833 A460	CB Piping Des HEX Bo	\$	18,887.00	\$	-	\$	18,882.00	\$	-	\$	18,882.00	\$	(18,882.00)	\$	5.00
NWA 20016833 A46A	CB Piping Des HP/LP	\$	44,966.00	\$	-	\$	44,952.00	\$	-	\$	44,952.00	\$	(44,952.00)	\$	15.00
NWA 20016833 A46C	CB Piping Des Argon	\$	6,061.00	\$	-	\$	6,057.00	\$	-	\$	6,057.00	\$	(6,057.00)	\$	4.00
NWA 20016833 A46D	CB Piping Des Expand	\$	13,718.00	\$	-	\$	13,714.00	\$	-	\$	13,714.00	\$	(13,714.00)	\$	4.00
NWA 20016833 A46F	CB Piping Des Main C	\$	4,474.00	\$	-	\$	4,471.00	\$	-	\$	4,471.00	\$	(4,471.00)	\$	3.00
NWA 20016833 A46J	CB Piping Des Lox Pu	\$	15,758.00	\$	-	\$	15,753.00	\$	-	\$	15,753.00	\$	(15,753.00)	\$	5.00
NWA 20016833 Z616	Contractor Labor Rat	\$	(87,545.00)	\$	-	\$	(87,545.00)	\$	-	\$	(87,545.00)	\$	87,545.00	\$	-
4* WBS EN-11-0367-01-07	Operations	\$	461,662.00	\$	700,281.00	\$	284,678.00	\$	-	\$	284,678.00	\$	415,603.00	\$	176,985.00
***NWA 20016833 0450	Startup Power	\$	171,980.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	171,980.00
***NWA 20016833 0460	GO Piping Design	\$	50,178.00	\$	-	\$	50,178.00	\$	-	\$	50,178.00	\$	(50,178.00)	\$	-
***NWA 20016833 1650	Expander Motor Refur	\$	15,000.00	\$	-	\$	13,074.00	\$	-	\$	13,074.00	\$	(13,074.00)	\$	1,926.00
***NWA 20016833 A901	GO Process Engineeri	\$	30,000.00	\$	-	\$	27,432.00	\$	-	\$	27,432.00	\$	(27,432.00)	\$	2,568.00

***NWA 20016833 A903	GO Mechanical Techni	\$ 45,227.00	\$ -	\$ 45,227.00	\$ -	\$ 45,227.00	\$ (45,227.00)	\$ -
***NWA 20016833 A905	GO Electrical Techni	\$ 77,571.00	\$ -	\$ 77,457.00	\$ -	\$ 77,457.00	\$ (77,457.00)	\$ 114.00
***NWA 20016833 A907	Environmental Engine	\$ 2,201.00	\$ -	\$ 2,200.00	\$ -	\$ 2,200.00	\$ (2,200.00)	\$ 1.00
***NWA 20016833 A910	GO Instrument Techni	\$ 69,505.00	\$ -	\$ 69,110.00	\$ -	\$ 69,110.00	\$ (69,110.00)	\$ 395.00
4* WBS EN-11-0367-01-08	Materials Management	\$ 435,914.00	\$ 797,800.00	\$ 424,221.00	\$ -	\$ 424,221.00	\$ 373,579.00	\$ 11,693.00
***NWA 20017364 0450	GO Provisioning Labo	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
***NWA 20017364 0460	PAC File Preparation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
***NWA 20017364 0500	Commissioning Spares	\$ 1,198.00	\$ -	\$ 1,198.00	\$ -	\$ 1,198.00	\$ (1,198.00)	\$ -
***NWA 20017364 0510	Signs and Nameplates	\$ 511.00	\$ -	\$ 511.00	\$ -	\$ 511.00	\$ (511.00)	\$ -
***NWA 20017364 0530	Spare Parts Racking/	\$ 23,409.00	\$ -	\$ 23,409.00	\$ -	\$ 23,409.00	\$ (23,409.00)	\$ -
***NWA 20017364 0570	Spare Parts	\$ 370,499.00	\$ -	\$ 368,126.00	\$ -	\$ 368,126.00	\$ (368,126.00)	\$ 2,373.00
***NWA 20017364 0720	Labor Adjust	\$ 9,320.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,320.00
***NWA 20017364 0730	Mtls Mgmt T&L	\$ 9,205.00	\$ -	\$ 9,205.00	\$ -	\$ 9,205.00	\$ (9,205.00)	\$ -
***NWA 20017364 A913	GO Materials Handlin	\$ 15,372.00	\$ -	\$ 15,372.00	\$ -	\$ 15,372.00	\$ (15,372.00)	\$ -
***NWA 20017364 A914	GO Material Manageme	\$ 6,400.00	\$ -	\$ 6,400.00	\$ -	\$ 6,400.00	\$ (6,400.00)	\$ -
4* WBS EN-11-0367-01-09	Post Start Up Costs	\$ 128,400.00	\$ 128,400.00	\$ 92,905.00	\$ -	\$ 92,905.00	\$ 35,495.00	\$ 35,495.00
***NWA 20016833 0580	Warranty	\$ 128,400.00	\$ -	\$ 92,905.00	\$ -	\$ 92,905.00	\$ (92,905.00)	\$ 35,495.00
4* WBS EN-11-0367-01-10	Freight	\$ 2,011,979.00	\$ 2,662,900.00	\$ 2,009,886.00	\$ -	\$ 2,009,886.00	\$ 653,014.00	\$ 2,093.00
***NWA 20016833 L901	Freight - Road	\$ 1,391,672.00	\$ -	\$ 1,389,579.00	\$ -	\$ 1,389,579.00	\$ (1,389,579.00)	\$ 2,093.00
***NWA 20016833 L902	Freight - Air	\$ 66,494.00	\$ -	\$ 66,494.00	\$ -	\$ 66,494.00	\$ (66,494.00)	\$ -
***NWA 20016833 L903	Warehousing	\$ 47,270.00	\$ -	\$ 47,270.00	\$ -	\$ 47,270.00	\$ (47,270.00)	\$ -
***NWA 20016833 L904	Freight - Ocean	\$ 506,543.00	\$ -	\$ 506,543.00	\$ -	\$ 506,543.00	\$ (506,543.00)	\$ -
4* WBS EN-11-0367-01-11	Miscellaneous	\$ 233,930.00	\$ 783,906.00	\$ 217,063.00	\$ -	\$ 217,063.00	\$ 566,843.00	\$ 16,867.00
***NWA 20016833 0634	FY12 GEO CI Direct C	\$ 183,691.00	\$ -	\$ 183,691.00	\$ -	\$ 183,691.00	\$ (183,691.00)	\$ -
***NWA 20016833 0670	Soils analysis	\$ 61,362.00	\$ -	\$ 61,362.00	\$ -	\$ 61,362.00	\$ (61,362.00)	\$ -
***NWA 20016833 1570	T&L - Shanghai	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
***NWA 20016833 M901	Permits and Licenses	\$ 29,859.00	\$ -	\$ 23,746.00	\$ -	\$ 23,746.00	\$ (23,746.00)	\$ 6,113.00
***NWA 20016833 TLAM	T&L - Asset Mgmt	\$ 159.00	\$ -	\$ 159.00	\$ -	\$ 159.00	\$ (159.00)	\$ -
***NWA 20016833 TLCA	T&L -Construction	\$ 85,704.00	\$ -	\$ 85,704.00	\$ -	\$ 85,704.00	\$ (85,704.00)	\$ -
***NWA 20016833 TLEA	T&L - Engineering	\$ 119,000.00	\$ -	\$ 108,246.00	\$ -	\$ 108,246.00	\$ (108,246.00)	\$ 10,754.00
***NWA 20016833 TLOA	T&L - Operations	\$ 29,630.00	\$ -	\$ 29,630.00	\$ -	\$ 29,630.00	\$ (29,630.00)	\$ -
***NWA 20016833 TLPA	T&L - Project	\$ 75,990.00	\$ -	\$ 75,990.00	\$ -	\$ 75,990.00	\$ (75,990.00)	\$ -
***NWA 20016833 TL5A	T&L - Startup	\$ 27,832.00	\$ -	\$ 27,832.00	\$ -	\$ 27,832.00	\$ (27,832.00)	\$ -
***NWA 20016833 Z610	Sales Estimate Costs	\$ 267,431.00	\$ -	\$ 267,431.00	\$ -	\$ 267,431.00	\$ (267,431.00)	\$ -
***NWA 20016833 Z618	Engineering Over/Und	\$ (189,845.00)	\$ -	\$ (189,845.00)	\$ -	\$ (189,845.00)	\$ 189,845.00	\$ -
***NWA 20016833 Z619	Engineering over/und	\$ (142,808.00)	\$ -	\$ (142,808.00)	\$ -	\$ (142,808.00)	\$ 142,808.00	\$ -
***NWA 20016833 Z620	Engineering over rec	\$ (314,075.00)	\$ -	\$ (314,075.00)	\$ -	\$ (314,075.00)	\$ 314,075.00	\$ -
4* WBS EN-11-0367-01-12	Reserve and Continge	\$ 41,382.00	\$ 2,870,559.00	\$ -	\$ -	\$ -	\$ 2,870,559.00	\$ 41,382.00
***NWA 20016833 Z990	Reserve - Material	\$ 31,597.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,597.00
***NWA 20016833 Z992	Reserve - Labor	\$ 9,785.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,785.00
4* WBS EN-11-0367-01-13	PHG250 Infrastructur	\$ 1,131,230.00	\$ 1,656,678.00	\$ 925,544.00	\$ -	\$ 925,544.00	\$ 731,134.00	\$ 205,685.00
***WBS EN-11-0367-01-13-1	Valves & Instruments	\$ 21,149.00	\$ 40,878.00	\$ 21,150.00	\$ -	\$ 21,150.00	\$ 19,729.00	\$ (1.00)
** NWA 20016833 1310	Manual Valves	\$ 5,776.00	\$ -	\$ 5,776.00	\$ -	\$ 5,776.00	\$ (5,776.00)	\$ -
** NWA 20016833 1330	Specialty Items	\$ 15,373.00	\$ -	\$ 15,373.00	\$ -	\$ 15,373.00	\$ (15,373.00)	\$ -
***WBS EN-11-0367-01-13-2	Construction	\$ 886,916.00	\$ 1,293,120.00	\$ 689,029.00	\$ -	\$ 689,029.00	\$ 604,091.00	\$ 197,887.00
** NWA 20016833 1340	Site prep	\$ 39,686.00	\$ -	\$ 39,686.00	\$ -	\$ 39,686.00	\$ (39,686.00)	\$ -
** NWA 20016833 1350	Civil	\$ 345,720.00	\$ -	\$ 342,186.00	\$ -	\$ 342,186.00	\$ (342,186.00)	\$ 3,534.00
** NWA 20016833 1370	Mechanical	\$ 466,540.00	\$ -	\$ 294,721.00	\$ -	\$ 294,721.00	\$ (294,721.00)	\$ 171,819.00
** NWA 20016833 1390	Electrical	\$ 9,936.00	\$ -	\$ 8,582.00	\$ -	\$ 8,582.00	\$ (8,582.00)	\$ 1,354.00
** NWA 20016833 1420	CCO's	\$ 25,034.00	\$ -	\$ 3,854.00	\$ -	\$ 3,854.00	\$ (3,854.00)	\$ 21,180.00
***WBS EN-11-0367-01-13-3	MK AP Engineering	\$ 110,096.00	\$ 296,280.00	\$ 102,297.00	\$ -	\$ 102,297.00	\$ 193,983.00	\$ 7,799.00
** NWA 20016833 1430	Process Engineer	\$ 9,254.00	\$ -	\$ 9,250.00	\$ -	\$ 9,250.00	\$ (9,250.00)	\$ 4.00
** NWA 20016833 1440	Process Controls Eng	\$ 6,437.00	\$ -	\$ 6,435.00	\$ -	\$ 6,435.00	\$ (6,435.00)	\$ 2.00



** NWA 20016833 1460	Yard C/S Design	\$	46,048.00	\$	-	\$	45,345.00	\$	-	\$	45,345.00	\$	(45,345.00)	\$	703.00
** NWA 20016833 1480	Yard Stress Engineer	\$	2,251.00	\$	-	\$	2,250.00	\$	-	\$	2,250.00	\$	(2,250.00)	\$	1.00
** NWA 20016833 1490	Process Systems Engi	\$	10,549.00	\$	-	\$	10,545.00	\$	-	\$	10,545.00	\$	(10,545.00)	\$	4.00
** NWA 20016833 1520	Electrical Design	\$	28,749.00	\$	-	\$	28,472.00	\$	-	\$	28,472.00	\$	(28,472.00)	\$	277.00
** NWA 20016833 1560	MK AP Labor Adjustme	\$	6,808.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	6,808.00
***WBS EN-11-0367-01-13-4	Miscellaneous	\$	113,069.00	\$	26,400.00	\$	113,069.00	\$	-	\$	113,069.00	\$	(86,669.00)	\$	-
** NWA 20016833 1540	New Duke Feed	\$	109,767.00	\$	-	\$	109,767.00	\$	-	\$	109,767.00	\$	(109,767.00)	\$	-
** NWA 20016833 1550	Travel & Living	\$	3,302.00	\$	-	\$	3,302.00	\$	-	\$	3,302.00	\$	(3,302.00)	\$	-
4* WBS EN-11-0367-01-14	MAC Compressor Build	\$	693,784.00	\$	-	\$	546,652.00	\$	-	\$	546,652.00	\$	(546,652.00)	\$	147,131.00
***NWA 20024827 A510	APCI Civil Design	\$	10,000.00	\$	-	\$	6,372.00	\$	-	\$	6,372.00	\$	(6,372.00)	\$	3,628.00
***WBS EN-11-0367-01-14-01	Materials and instal	\$	541,924.00	\$	-	\$	475,778.00	\$	-	\$	475,778.00	\$	(475,778.00)	\$	66,145.00
** NWA 20024827 B100	Building Purchase	\$	161,000.00	\$	-	\$	167,387.00	\$	-	\$	167,387.00	\$	(167,387.00)	\$	(6,387.00)
** NWA 20024827 K111	Building Installatio	\$	112,424.00	\$	-	\$	112,008.00	\$	-	\$	112,008.00	\$	(112,008.00)	\$	416.00
** NWA 20024827 M200	Civil Contractor	\$	53,500.00	\$	-	\$	53,982.00	\$	-	\$	53,982.00	\$	(53,982.00)	\$	(482.00)
** NWA 20024827 M201	Structural Contracto	\$	130,000.00	\$	-	\$	81,081.00	\$	-	\$	81,081.00	\$	(81,081.00)	\$	48,919.00
** NWA 20024827 M600	Electrical Contracto	\$	70,000.00	\$	-	\$	56,501.00	\$	-	\$	56,501.00	\$	(56,501.00)	\$	13,499.00
** NWA 20024827 M901	Permits	\$	15,000.00	\$	-	\$	4,821.00	\$	-	\$	4,821.00	\$	(4,821.00)	\$	10,179.00
***WBS EN-11-0367-01-14-02	APCI labor	\$	73,860.00	\$	-	\$	64,502.00	\$	-	\$	64,502.00	\$	(64,502.00)	\$	9,358.00
** NWA 20024827 A260	Electrical Designer	\$	8,720.00	\$	-	\$	13,793.00	\$	-	\$	13,793.00	\$	(13,793.00)	\$	(5,073.00)
** NWA 20024827 A500	Civil Engineer	\$	4,360.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	4,360.00
** NWA 20024827 A51A	Civil Designer	\$	4,360.00	\$	-	\$	1,815.00	\$	-	\$	1,815.00	\$	(1,815.00)	\$	2,545.00
** NWA 20024827 A700	Project Engineer	\$	8,720.00	\$	-	\$	10,260.00	\$	-	\$	10,260.00	\$	(10,260.00)	\$	(1,540.00)
** NWA 20024827 A710	Project Technician	\$	2,180.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	2,180.00
** NWA 20024827 A820	Construction Supervi	\$	30,520.00	\$	-	\$	18,792.00	\$	-	\$	18,792.00	\$	(18,792.00)	\$	11,728.00
** NWA 20024827 TLGA	T&L	\$	15,000.00	\$	-	\$	19,842.00	\$	-	\$	19,842.00	\$	(19,842.00)	\$	(4,842.00)
***WBS EN-11-0367-01-14-03	Contingency	\$	68,000.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	68,000.00
** NWA 20024827 Z606	Taxes	\$	20,000.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	20,000.00
** NWA 20024827 Z990	Materials and instal	\$	40,000.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	40,000.00
** NWA 20024827 Z992	APCI labor	\$	8,000.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	8,000.00
4* WBS EN-11-0367-01-15	Water Treatment Tank	\$	29,092.00	\$	-	\$	11,414.00	\$	-	\$	11,414.00	\$	(11,414.00)	\$	17,678.00
***NWA 20025688 0010	Civil Contractor	\$	7,500.00	\$	-	\$	6,760.00	\$	-	\$	6,760.00	\$	(6,760.00)	\$	740.00
***NWA 20025688 0020	Tank Installation	\$	2,000.00	\$	-	\$	1,883.00	\$	-	\$	1,883.00	\$	(1,883.00)	\$	117.00
***NWA 20025688 0030	Electrical Contracto	\$	6,000.00	\$	-	\$	1,259.00	\$	-	\$	1,259.00	\$	(1,259.00)	\$	4,741.00
***NWA 20025688 0040	Mechanical Contracto	\$	6,000.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	6,000.00
***NWA 20025688 0050	Insulation Contracto	\$	5,000.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	5,000.00
***NWA 20025688 0060	APCI Labor	\$	2,592.00	\$	-	\$	1,512.00	\$	-	\$	1,512.00	\$	(1,512.00)	\$	1,080.00
Result		\$	44,498,623.00	\$	53,169,216.00	\$	43,514,829.00	\$	1.00	\$	43,514,830.00	\$	9,654,386.00	\$	983,793.00