

Case No.: <u>20-1534-</u>EL-EEC

Mercantile Customer:	GE Aircraft Engines
Electric Utility:	Duke Energy
Program Title or G	GE Aviation - High Efficiency Chills

Description:

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. <u>10-834-EL-POR</u>

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 <u>ee-pdr@puc.state.oh.us</u>.

Section 1: Mercantile Customer Information

Name: GE Aircraft Engines

Principal address: 1 Neumann Way Cincinnati, OH 45215

Address of facility for which this energy efficiency program applies:

1 Neumann Way Cincinnati, OH 45215

Name and telephone number for responses to questions:

Megan Fox, (980) 373-1198

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)).

Consolidation of several chiller plants into a single, centralized, chiller plant for the GE Aviation Campus in July 2018

- □ 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:
 - 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: 813,298 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.

 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

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.)
 - D 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 equipment was installed in July 2019

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

15.5 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 \$35,922. 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 8.73 (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 \$594,444.

The utility's program costs were **\$32,133**.

The utility's incentive costs/rebate costs were **\$35,922**.

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.

Account number		84500860
Company Name		GE Aircraft Engines
Address 1		1 Neumann Way
Address 2		Cincinnati, OH 45215
Date	Days	Actual KWH
10/01/2019	30	13,466,800
09/03/2019	29	13,390,355
08/01/2019	32	14,858,397
06/06/2019	30	12,415,811
05/03/2019	32	11,835,672
04/02/2019	29	11,930,591
03/04/2019	29	12,206,580
02/01/2019	30	11,653,991
01/03/2019	33	12,710,309
12/03/2018	33	12,184,321
10/30/2018	29	11,501,982
10/01/2018	30	13,392,126
Tota	al	151,546,935

Appendix	Appendix B - GE Aviation Energy Savings Achieved	s Achieved							
	Baseline Used	Used		Post Project Actual				Sav	Savings
			Summer			Summer			Summer
			Coincident			Coincident	Hours of	Annual	Coincident
	Description	Annual kWh	kW	Description	Annual kWh	kW	Operation	kWh	kW
ECM - 1	ASHRAE 90.1-2010 minimum efficiency of 0.570 kW/ton	3,800,236	1,135	Installation of (5) 1000-ton chillers	2,986,938	1,120	8,760	813,298	15.5
Notes:	Energy consumption baseline,	demand baseli	ne and post	Energy consumption baseline, demand baseline and post project energy consumption basis are outlined in the following pages.					
	After consideration of line losses, total energy savings are 87	es, total energy	savings are	871,856 kWh and 16.3 summer coincident kW. These values may also reflect minor DSMore modeling software rounding error.	y also reflect m	inor DSMore	modeling soft	ware round	ng error.

Appendix C -Cash Rebate Calculation

GE Aviation

			-
Measure	Quantity	Cash Rebate Rate	Cash Rebate
		50% of incentive that would be offered by	
Chillers (Qty - 5)	1	the Smart \$aver Custom program	\$32,922
			\$32,922

Appendix D -UCT Value

GE Aviation

ity Measure UCT	8.73		UCT 8.73	
Quantity	1	1	pplicatior	:
Incentive	\$35,922	\$35,92 2	Aggregate Application UCT	
Program Cost	\$32,133	\$32,133		
Total Avoided Cost Program Cost Incentive	\$594,444	\$594,444	\$594,444	\$32,133
Measure	Chiller installation (Qty - 5)	Totals	Total Avoided Supply Costs	Total Program Costs

Smart \$aver® Incentive Program phone: 866.380.9580

fax: 980.373.9755



customprocessing@duke-energy-energyefficiency.com

9/10/2020

Andy Long GE AIRCRAFT ENGINES - 8450086001 1 NEUMANN WAY CINCINNATI OH 45215-1915

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate CMO19-0000166576

Dear Andy Long,

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 \$35,922.00 has been proposed for your project completed in the 2019 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 \$aver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

La Palar

Andrew Taylor Program Manager Custom Incentives

cc: Teri Morris Kelly Rogers



GE AIRCRAFT ENGINES - 8450086001 - CMO19-0000166576 Custom Incentive Offer Letter 9/10/2020 Page 2

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

x Rebate is accepted.

Rebate is declined.

By accepting this rebate, GE AIRCRAFT ENGINES - 8450086001 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, GE AIRCRAFT ENGINES - 8450086001 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, GE AIRCRAFT ENGINES - 8450086001 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

anda Long

Customer Signature

<u>Andrew Long</u> Printed Name 9/11/2020

Date



GE AIRCRAFT ENGINES - 8450086001 - CMO19-0000166576 Custom Incentive Offer Letter 9/10/2020 Page 3

Proposed Rebate Amounts

Measure ID	Energy Conservation Measure	Proposed Rebate Amount
ECM-1	GE Aviation - High Efficiency Chillrs	\$35,922.00 per project X 1
	Total	\$35,922.00

Ohio Public Utilities Commission

(Mercantile Customers Only)

Application to Commit

Energy Efficiency/Peak Demand Reduction Programs

Case No.: _____20-1534-EL-EEC

State of Ohio :

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

1. I am the duly authorized representative of:

GE Aircraft Engines

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 offines 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.

SIGNATURE OF AFTANT & TITLE

Sworn and subscribed before me this DAY day of September, 2020 MONTH, YEAR Signature of official ADMINISTERING OATH PRINT NAME and TITLE Ohio Notary

My commission expires on $\frac{6}{17/24}$



GREG YERKES Notary Public, State of Ohio My Commission Expires June 17, 2024



Ohio Mercantile Self Direct Program

Application Guide and Cover Sheet

Questions? Call 866.380.9580 or visit 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. You may also fax to 513.629.5572.

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



X 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
840-0860-01-3	149,306,388		

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:

X All sections of	X Proof of	X Manufacturer's	X Energy
appropriate application(s) are	payment.*	Spec sheets	model/calculations and detailed inputs for
completed			Custom applications

*If a single payment record is intended to demonstrate the costs of both Prescriptive and 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.

Application Type	Prescriptive Measures with Optiona	al Custom Processing
Heating and Cooling and Window Films, Programmable Thermostats, and	ENERGY STAR® Window/Sleeve/Room AC Central Air Unit	Air Source Heat Pump Water Heater
Guest Room Energy Management Systems	Setback/Programmable Thermostat Guestroom Energy Management Control	UWindow Film
Chillers	Air Cooled Chiller	X Water Cooled Chiller
Motors, Pumps and Variable Frequency Drives (VFDs)	 □ VFD – applied to Process Pump □ VFD – applied to HVAC Pump 	☐ VFD – applied to HVAC Fan
Food Service	 ENERGY STAR Hot Food Holding Cabinet Night Covers for Display ECM Cooler, Freezer, and Display Case Motors ENERGY STAR Solid or Glass Door Reach-in Freezer of 	 Anti-Sweat Heater Control Cooking Equipment ENERGY STAR Ice Machine r Refrigerator
Process Equipment	Engineered Nozzle – Compressed Air	Pellet Dryer Duct Insulation
Chiller Tune-ups	Air Cooled Chiller tune-up	Uwater 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.



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 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, please call 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: <u>SelfDirect@duke-energy.com</u> (note attachment size limit is applicable)

Fax: 513.629.5572



1. Contact Information (Required)

Duke Energy Customer	Contact In	formation ¹				
Company Name (as it appears on your bill)	GE Aircraft	Engines				
Address	1 Neumann	Way				
City	Cincinnati		State	ОН	ZIP Code	45215
Project Contact	Andy Long					
Office Phone		Mobile Phone	513-5	82-4952		
Email Address	andrew1.lon	g@ge.com				

Equipment Vendor	Equipment Vendor / Contractor / Architect / Engineer Contact Information							
Company Name	Energy Mar	nagement Solutio	ons					
Address	684 Excels	684 Excelsior Blvd, Suite 200						
City	Excelsior	Excelsior State MN ZIP Code 55331						
Project Contact	Kelly Roger	Kelly Rogers						
Office Phone		Mobile Phone 952-767-7450						
Email Address	KRogers@	emsenergy.com						

Who is the primary point of contact for technical questions?² Contractor

Payment Informa	Payment Information							
If an incentive is awarded, who should receive payment? ³								
K Customer Vendor* (customer or customer's agent ⁴ must sign below)								
*If the payee is the	*If the payee is the vendor, they must issue a credit in the amount of the incentive to the customer							
on the invoice and	include it with the payme	nt request.						
Tax ID Number for	Tax ID Number for Payee (provide W-9) 14-0689340							
Mailing Address fo	Mailing Address for Payee (if different from above)							
Street								
City		State	;	ZIP Code				

¹ Provided customer information should match the Duke Energy customer of record and W-9 form provided with this application. If the customer entity is a business affiliate of the Duke Energy customer of record, documentation must be provided that demonstrates the business affiliation.

² 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 letter of authorization on customer letterhead indicating an entity is acting as an agent for the customer. Duke Energy does not act as an agent.

³ 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.

⁴ If an outside agent is acting on behalf of the Duke Energy customer of record, a letter of authorization on customer letterhead and signed by an authorized employee of the customer must be provided.



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 two years or less
 - Replacing equipment that is estimated to have remaining useful life of more than two

years

- Behavioral, operational and/or procedural programs/projects
- B. Please describe your project, or attach a detailed project description that describes the project.

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GE Aviation installed multiple large Chillers in a new North Utility Plant (NUP) that serves multiple buildings as a centralized chiller plant. This is a much more efficient cooling method than the existing units in each building.
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- C. When did you start and complete implementation? Start date / (mm/yyyy) End date / (mm/yyyy)
 - 01/19 07/19
- D. Are you also applying for Self Direct Prescriptive rebates and, if so, which one(s)⁵?

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)
 - X 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.
- G. Attach a supplier or contractor invoice(s) and/or other equivalent information documenting the Implementation Cost for each project listed in your application.
 Does the Implementation Cost include any internal labor⁶?
 If yes, please specify which costs are internal labor.

⁵ 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.

⁶ Internal labor costs cannot be counted in the Incremental Project Cost for purposes of analysis.



3. Attestation, Terms and Conditions, and Signature (Required)

Attestation

By signing below, I agree to the following:

I, **(INSERT NAME)** <u>Andrew Long</u>, do hereby consent to Duke Energy Ohio, Inc. 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 have read and agree to the below Terms and Conditions of the Duke Energy Ohio's Mercantile Self Direct Program.

I certify that I meet the eligibility requirements of the Duke Energy Ohio's Mercantile Self Direct Program, as applicable, and that all information provided within my application is correct to the best of my knowledge.

I certify that the taxpayer identification number provided in my application 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).

Instructions/Terms/Conditions

Note: Please keep for your records

- 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 (PUCO). *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 PUCO. 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.
- 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 six 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.
- 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. Unless used for decorative purposes only, all LED lighting products must be present on a current Design Lights Consortium (DLC) or Energy Star qualified product list.



17. 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.*

CUSTOMER SIGNATURE REQUIRED

By signing below, I certify that I have read and agree to the above Mercantile Self Direct Attestation and Terms and Conditions.

Customer Signature	dunden Lar		\langle	SIGN HERE
Print Name	Andrew Long	Date	11/8/2019	

TRADE ALLY SIGNATURE (REQUIRED ONLY IF TRADE ALLY IS PAYEE)

By signing below, I certify that I have read and agree to the above Mercantile Self Direct Attestation and Terms and Conditions.

Trade Ally Signature	
Print Name	Date

CUSTOMER – AUTHORIZATION TO DESIGNATE TRADE ALLY AS PAYEE

If an incentive is awarded and the customer would like to authorize payment to the trade ally, the customer must sign below to allow release of their incentive to the trade ally.

Required: Final invoice from trade ally to customer must show the incentive credited to the customer. If the itemized invoice does not reflect a deduction of the incentive amount, the payee will be changed to the customer.

Customer Signature		
Print Name	Date	

Smart Saver [®]	wer®			Page 1 of 2		R	ms -	Smart Saver®	and the Area of th			ä	Page 2 of 2		
GENERA	GENERAL WORKSHEET - CLASSIC CUSTOM GENERAL CALCULATIONS	IENERAL CALCULATIONS		rev 2/16	Z V	ERGY.	GEI	VERAL WORKSHEE	NOTIFICIATION CONTRIBUTION APPRICATION GENERAL WORKSHEET - CLASSIC CUSTOM GENERAL CALCULATIONS	NERAL CALCULATIONS		e	rev 2/16	ENER	34
List of S.	List of Sites (Required)				App No.		For	For each project, ans	For each project, answer the following questions (use or e worksheet per project)	e following questions (use one worksheet	per project)			App No.	0
Provide	Provide a list of sites addressed by this custom incentive application	m incentive application			'AAV]	Ĥ	w would you class	How would you classify this project? (Place an x in all boxes that apply.	n x in all boxes that appl				'AAN	-
Site ID	Duke Energy Electric Account		list of Pronosad Projects at	Annual Hours of	Gross	Conditioned Fa	Facility Light	Lighting	Heating/Cooling Mctore/Primme	× ×	Air Compressor		Energy Management System Other describe helow:	ent System	
(see note 1)		Facility Address	each site	Operation	Footage		_ 			¢	Ninindanha sensori				
22	225 12345678 01	Example: 123 Main Street, Anywhere USA 12345	Project Name(s)	5,840	42,000	38,000	12 Bri	Brief Project Description	uo						
2	204 8450-0860-01-03	1 Neumann Way, Cincinnati, OH 45215	NUP Chillers and Pumps	8,760			ä	scribe the Baseline	Describe the Baseline Equipment/System	(see note 3)		Describe the Proposed High Efficiency Project	posed High Efficie	ncy Project	
						T	ž.	sting old chillers a	Existing old chillers and pumps in each individual building.	fual building.	One centralized utility plant (NUP) North Utility Plant that supplies the CHW and HW needs to	plant (NUP) North	Utility Plant that	supplies the CHW a	nd HW needs to
							Γ				each building now.				
							¥ 8	xisting Equipment	If Existing Equipment is the Baseline, how many years of useful life remain or how many years until replacement?	ny years of useful life r	emain or how many ye	ars until replaceme	int?		5
					T		5	Detailed Project Description Attached	ription Attached?	Tes	(kedniked)				
							6	Operating Hours	(see note 4)						
														s of Use in	
					T		Τ	-	Week		Saturday	Sunday			Total Annual
					T	t	Yes	24 X / Start Hour	OUL ENG HOUL	Start Hour	End Hour	Start HOUL	E10 HOUL	(moiad aton ass)	8,760
							Ift	he equipment is no	If the equipment is not in use 52 weeks during the year (for example, during holiday or summer break), provide an explanation of when	the year (for example,	furing holiday or summ	er break), provide a	an explanation of v	when	
							nsa	usage is not expected and why:	and why:						
					T	t	1	Frarm Casines	Racalina	г					
								Summer 19.	(see note 3)	Proposed	Savines	Describe how energy numbers were calculated	numbers were calo	culated	
							- An	Annual Electric Energy		4,325,	1,153,568 kWh				
							E	Electric Demand			0 kW	Based on specs and usage, utilizing raw trend data from the plant and initial engineering calculations	utilizing raw trend data f	from the plant and initial e	gineering calculations
							ē	Calculations attached	Yes	Yes	(Required)		'rom BSI engineering in Cincinnatti.	ng in Cincinnatti.	
						T	Sir	Simple Pavback							
							Avi	stage electric rate	Average electric rate (\$/kWh) on the applicable accounts	e accounts	(see note 5)			\$0.06	
							Est	Estimated annual electric savings	ctric savings					\$69,214	
							<u></u>	ner annual savings	Other annual savings in addition to electric savings, such as operations, maintenance, other fuels	avings, such as operatio	ns, maintenance, other	r fuels		4000 000 00	
					Ī	T	13	Copy of vendor proposal is attached	incrementations to imprement the project (equipment a instantation) Copy of vendor proposal is attached	(see note 7)		for some set		Yes	
							lis	Simple Electric Payback in years	ck in years	2.889586474		Total Payback in years			2.889586474
							<u>;</u>	(see note 8)		_					
							Τ								
							Τ								
						T	Τ								



Equipment Submittal For Approval

Project:

GE AVIATION – EVENDALE BUILDING 451 NORTH UTILITY PLANT

YORK YMC² MAGNETIC CENTRIFUGAL CHILLER (TAG: CH-3, 4, & 5))



SUBMITTED TO: Brian Beckman 1 Neumann Way Mail Drop D59 Cincinnati, Ohio 45215

> <u>DATE:</u> June 25 2016

SUBMITTED BY:

SCOTT MARGESON Systems Application Engineer Johnson Controls 7863 Palace Drive Cincinnati, Ohio 45249 (513) 630-7853

TABLE OF CONTENTS

- o Submittal Summary
- Submittal Notes
- Performance Specification
- Product Drawing
- Wiring Diagram
- Points List
- Unit Specification
- Rigging & Installation Instructions
- Installation Checklist & Start-Up Request
- Warranties
- **o** Operation & Maintenance

Submittal Summary

YORK YMC² MAGNETIC CENTRIFUGAL CHILLER

Items Included by Johnson Controls

- Motor, 460 volts, 3 phase, 60 Hz
 - Motor Enclosure: Hermetically Scaled
- Inverted Performance Technology
- Variable Speed Drive, factory mounted and wired. NEMA 1
- Single Compressor
- Isolation Valves
- Evaporator: 2- Pass
 - Hinged Marine Water Boxes, rated for 150 psig water-side pressure.
 - o Victaulic Connection.
 - Water Box Hinges
 - Factory Thermal Insulation for Evaporator 3/4" inches. Insulation finish to match chiller finish.
 - o Flow Sensors, factory mounted and wired.
- Condenser: 2 Pass
 - Hinged Marine Water Boxes, rated for 150 psig water-side pressure.
 - Victaulic Connection.
 - Water Box Hinges
 - o Flow Sensors, factory mounted and wired.
- Unit Warranty: 10 Year Parts Warranty including Refrigerant
- Chiller Start up (PCAT) and 40hr Training
- Factory Chiller Testing
- Additional Waterbox Gasket Seals for both Evaporator and Condenser water boxes per chiller.
- Service Isolation Valves
- BACnet MS/TP Card for TAC Interface
- Optiview control panel (graphical interface/controller at unit)
- Optimization software included
- Assistance in Duke Rebate application process

Items Included but INSTALLED BY OTHERS

• 1" Thick Neoprene Pad

Items NOT Included

- Refrigerant monitor or SCBA
- Rigging, hauling, or providing access for equipment.
- Valves for vents and drains
- Pressure gauges for chilled water lines
- Relief piping to the atmosphere.
- Disassembly / Reassembly of chiller if required for installation.
- Coordination drawings of central plant.
- Occupancy adjustments after completion of York chiller start-up
- Piping and Wiring
- Evaporator Flow/Differential Pressure Switch
- Condenser Flow/Differential Pressure Switch

Submittal Notes

- Evaporator and Condenser Nozzles for CH-451-3, 4 & 5 are currently selected as Right Hand Connection (See Unit Drawing). Please confirm handing connections as right hand or left hand.
- Pressure relief valves included.
- One quart of paint to match chiller included.
- Warranty and training included per plans and specs.

PERFORMANCE SPECIFICATION



YMC² CHILLER PERFORMANCE SPECIFICATION

Unit Tag	Qty	Model No.	Net Capacit (tons)	y Power	Refrigerant
CH-451-3- 4-5	3	YMC2-S3517A BS	1000	460/3/60.0	R-134A

Unit Data	Evaporator	Condenser
Compressor Model: M6C-331FAC	Model: EC3914-371-CS1-2GMR	Model: CB3914-260-BS1-2GMR
EWT (°F):	54.20	85.00
LWT (°F):	43.00	94.09
Flow Rate (gpm):	2135	3100
Pressure Drop (ft):	21.9	26.5
Fluid Type (%):	WATER	WATER
Circuit No. of Passes:	2	2
Fouling Factor (ft ² °F hr / Btu):	0.000100	0.000250
Tube No. / Description:	371 - 0.025" Turbo-ESP Copper (3/4")	260 - 0.025" CSL Enhanced Copper
Design Working Pressure (psig):	150	150
Entering Water Nozzle @ Location:	R	R
Leaving Water Nozzle @ Location:	R	R
Water Box Weight, ea (lb)(1):	651	651
Cover Plate Weight, ea (lb):	481	481
Return Head Weight (lb):	215	271
Water Weight (lb):	2745	2734
Water Volume(gal):	330	328

Performan	ce Data	Electrical Data		Other	
Job KW:	574.0	Job FLA:	753	Operating Wt. (lb):	35398
Min Circuit Ampacity					
KW/Ton.R:	0.5740	(Amps):	942	Per Isolator (lb):	8850
NPLV.IP:	0.3190	Max Fuse/Breaker:	1600	Refrigerant Wt. (lb):	1710
				Compressor Wt. (lb):	4400
Isolation Valves:	YES			Ship Wt (lb):	29953
		Type Starter: VSD w/ f			
		VSD Model: HYP1278XHC	30B-46A		

Notes:

(1) Not including cover plate on marine water boxes.



YMC² CHILLER PERFORMANCE SPECIFICATION

AHRI Message:

Certified in accordance with the AHRI Water-Cooled Water Chilling and Heat Pump Water-Heating Packages Using Vapor Compressor Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.



Special Quote Notes:



Project: Unit Tag: Engineer: Customer: Rating Program: XEngine 1.0.6675 Software Version: YW 18.02 Date: 04/30/2018 15:26:29

SALES REPORT

	Unit Speci	fications	
Model	YMC2-S3517AB	Refrigerant	R134a
Specified Net Capacity (Tons)	1000	Refrigerant Charge (lb)	2162
Rated Net Capacity (Tons)	1000	Variable Orifice	V3
Full Load (kW/Ton.R)	0.5742	Isolation Valve	Y
NPLV.IP (kW/Ton.R)	0.3189	OptiSound Control	Y
Input Power (kW)	574.2	Voltage / Hz	460 / 60.0
Starter Type	HYP1278XHC***-46A	FLA (Amps)	754
Compressor	M6C-331FAC	A-Weighted SPL (dBA)	82
Evaporator	EC3914-371-CS*-2***	Min Circuit Ampacity	943
Condenser	CB3914-260-BS*-2***	Max Circuit Breaker Amps	1600

	Evaporator	Condenser
Fluid	Water*	Water*
Tube MTI No.	371	260 / 260
Passes	2*	2*
Fouling Factor (hr-ft²-°F/Btu)	0.000100*	0.000250*
Entering Fluid Temp (°F)	54.20	85.00*
Leaving Fluid Temp (°F)	43.00*	94.09
Fluid Flow (gpm)	2135*	3100*
Fluid Pressure Drop (ft H2O)	22.3	26.5

(*) Designates User Specified Input

Certified in accordance with the AHRI Water-Cooled Water Chilling and Heat Pump Water-Heating Packages Using Vapor Compressor Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW: Chiller Controls.

Compliant with ASHRAE 90.1-2004.

- Compliant with ASHRAE 90.1-2007.
- Compliant with ASHRAE 90.1-2010.
- Compliant with ASHRAE 90.1-2013.
- Compliant with ASHRAE 90.1-2016.

Compliant with the requirements of the LEED Energy and Atmosphere Enhanced Refrigerant Management Credit (EAc4).

Materials and construction per mechanical specifications - Form 160.84-EG1. Auxiliary components included in total kW - Chiller controls.





Project: Unit Tag: Engineer: Customer:

Rating Program: XEngine 1.0.6675 Software Version: YW 18.02 Date: 04/30/2018 15:26:29

		Par	tload Data	(Minimum	Condense	er Water To	emperatur	e)		
					% L	OAD				
CEFT (°F)	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
85.00°	0.5742	0.5440	0.5216	0.5039	0.5009	0.5051	0.5202	0.5531	0.6623	-
80.00°	0.5206	0.4903	0.4671	0.4495	0.4405	0.4366	0.4435	0.4691	0.5541	0.9565
75.00°	0.4711	0.4434	0.4166	0.3969	0.3838	0.3784	0.3828	0.4023	0.4615	0.7893
70.00°	0.4270	0.3966	0.3694	0.3488	0.3325	0.3224	0.3230	0.3360	0.3780	0.6239
65.00°	0.3840	0.3532	0.3265	0.3048	0.2853	0.2711	0.2676	0.2737	0.2971	0.4771
60.00°	0.3475	0.3141	0.2868	0.2632	0.2414	0.2244	0.2182	0.2197	0.2368	0.3105
55.00°	0.3145	0.2775	0.2494	0.2251	0.1996	0.1815	0.1710	0.1690	0.1778	0.2260
50.00°	0.2786	0.2447	0.2162	0.1868	0.1628	0.1418	0.1269	0.1354	0. 1 505	0.1773
45.00°	0.2577	0.2244	0.1974	0.1675	0.1336	0.1040	0.1113	0.1240	0.1502	0.2216
40.00°	0.2544	0.2242	0.1993	0.1691	0.1373	0.1082	0.1139	0.1268	0.1975	0.3206
39.00°	0.2510	0.2213	0.1966	0.1684	0.1377	0.1075	0.1130	0.1255	0.1955	0.3198
38.00°	0.2475	0.2181	0.1955	0.1684	0.1383	0.1068	0.1120	0.1236	0.1934	0.3189
37.00°	0.2438	0.2170	0.1950	0.1684	0.1389	0.1060	0.1112	0.1217	0.1913	0.3180
36.00°	0.2430	0.2167	0.1947	0.1687	0.1393	0.1051	0.1109	0.1208	0.1891	0.3171
*Values a	are in kW/T	on.R								

Certified in accordance with the AHRI Water-Cooled Water Chilling and Heat Pump Water-Heating Packages Using Vapor Compressor Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW: Chiller Controls.

Compliant with ASHRAE 90.1-2004. Compliant with ASHRAE 90.1-2007.

Compliant with ASHRAE 90.1-2010.

Compliant with ASHRAE 90.1-2013. Compliant with ASHRAE 90.1-2016.

Compliant with the requirements of the LEED Energy and Atmosphere Enhanced Refrigerant Management Credit (EAc4).



Materials and construction per mechanical specifications - Form 160.84-EG1.

Auxiliary components included in total kW - Chiller controls.



APPLICATION AND CERTIFICATE FOR PAYMENT	IFICATE FOF	R PAYMENT			PAGE ONE OF 8 PAGES	BAGES
TO (OWNER): CH2MHILL ENGINEERS, INC	RS, INC	PROJECT:	GE Evendale North Utility Plant MEP	APPLICATION NO:	41-60017	
One Neumann way in Cincinnati, OH 45215	5		Evendale, OH 45215	PERIOD TO:	9-30-17	ARCHITECT CONTRACTOR
FROM (CONTRACTOR): MONARCH CONSTRUCTION COMPANY	UCTION COMPANY			ARCHITECT'S		0 0
CINCINNATI OH 45263-1100	63-1100			PROJECT NO: CONTRACT NO:	EBF1945-SC-010	
CONTRACT FOR: General Construction	ruction			CONTRACT DATE:		
			Application is made for Payment, as shown below, in connection with the Contract	own below, in connection wi	th the Contract.	
CONTRACTOR'S APPLICATION FOR PAYMENT	ATION FOR F	AYMENT	Continuation Sheet, AIA Document G703, is attached.	t G703, is attached.		\$ 5842390.00
CHANGE ORDER SUMMARY		ONCITOUODO	1. URIGINAL CONTRACT SUMMERS			
Change Orders approved in	ADDITIONS	DEDUCTIONS	2. Net cliange by Strange Strates	Line 1 +/- 2)	: :	-
	7,527,459.25	18,279.00	4. TOTAL COMPLETED & STORED TO DATE	RED TO DATE	1	\$ 13,356,673.25
d thi			Column G on G703)	G703)		
er Date	001000		5. Refainade 10%		\$ 1.335.667.33	
42 Sep-17 43 Sep-17	3,934,00					
			b. Retainage for stored material	-	•	, ,
			c. Amount withheld			-
			Total Ketainage (Line 5a + 5D or Total in Column I of G703)			\$ 1,335,667.33
Totale	7 532 562 25	18.279.00	e .	VINAGE	:	\$ 12,021,005.92
Net change by Change Orders	7,514,283.25		r1	ne 5 Total)		
The undersigned Contractor certifies that to the best of the Contractor's knowledge,	lat to the best of the	Contractor's knowled	7.	TES FOR		
information and belief the Work covered by this Application for Payment has been	d by this Application	for Payment has bee		Certificate)		\$ 12,016,413.22 \$ 4 502 70
completed in accordance with the Contract Documents, that all amounts have been	ract Documents, tha	t all amounts have be	en 8. CURRENT PAYMENT DUE	DETAINAGE		\$ 1.335.667.33
paid by the Contractor for Work for which previous Certificates for Payment were	ch previous Certifica	ates for Payment wer		NE MINAGE	:	
issued and payments received from the Owner, and that current payment shown	Owner, and that cu	rrent payment shown	State of	County of Hamilton	Hamilton	
herein is now aue.			ed and swo	re me this 29th day of A	vugust, 2017.	
CONTRACTOR: MONARCH CO	MONARCH CONSTRUCTION COMPANY	MPANY	Notary Public: LINDSEY BUTLER	t	HIND I NOULA	5
		210010	Notary Public, State of Unio	₹.		
By: Why Isle	Date:	ILIAZIA	My Commission expires: My Commission expires:	52 UC-202-00 Se		
Wendy Laylor, Controller			AMOUNT CERTIFIED			\$
ARCHITECT'S CERTIFICATE FOR PAYMENT	ATE FOR PA	YMENT	(Attach explanation if amount certified differs from the amount applied for.)	certified differs from th	e amount applie	d for.)
In accordance with the Contract Documents, based on on-site observations and the	nents, based on on-s	ite observations and	the ARCHITECT:			
data comprising the above application, the Architect certifies to the Owner that to the host of the Architect's knowledge, information and belief the Work has progressed as	the Architect certific rmation and belief th	e Work has progress			Date:	
indicated, the quality of the Work is in accordance with the Contract Documents, and	accordance with the	Contract Documents	•	The AMOUNT CERTIFIED	is payable only to	o the
the Contractor is entitled to payment of the AMOUNT CERTIFIED.	f the AMOUNT CERT	(FIED.	Contractor named herein. Issuance, payment and acceptance of payments are without presurdice to any rights of the Owner or Contractor under this Contract.	ce, payment and acceptan the Owner or Contractor ı	ce of payments ar inder this Contrac	6
			is called fun as completed include			

I

Page 2 of 8

ltern No.		- -	2	-	_	2	-	c	
°.	Description of Work	Scheduled	WORK COMPLETED	PLETED	Other	Total		Balance to	Retainage
i		Value	From Previous	This Period	(Not In D or E)	Completed to Date	(G ÷ C) %	Finish	Ten %
			Application (D + E)			(Describe Below) (D+E+F)			
	General Conditions Mobilization/Demobilization	12,000.00	12,000.00			12,000.00	100%		1,200.00
2	General Conditions	172,000.00	172,000.00			172,000.00	100%		17,200.00
"	MEP PM & Badging	00 000 86	00,006 80			28.000.00	100%		2.800.00
÷ 4	Salety and Security Netfunition	1 200 00	1 200 00			1,200.00	100%		120.00
	Jave 17	28,000.00	28,000.00			28,000.00	100%		2,800.00
~	Builders Risk Insurance	8,000.00	8,000.00			8,000.00	100%		800.00
8	Project Closeout								
6	Equipment Trucking								
10	3D BIM Coordination	356,000.00	356,000.00			356,000.00	100%		35,600.00
	HVAC								
7	Ductwork	406,180.00	406,180.00			406,180.00	100%		40,618.00
12	Owner Furnished Equipment Installation								
13	HVAC Controls/Devices	600,000.00	600,000,000			600,000.00	100%		60,000.00
14	Testing/Inspection								
	CWS/ Temporary HW & CW Tie-In								
15	CW Piping Above KO Space					~~~~~~~~	10001		0000000
16	Piping	1,329,000.00	1,329,000.00			1,329,000.00	100%		132,900.00
17	CHW Piping to AHU's								
2 8	Insulation								
1 9	Pipe Supports	200,000.00	200,000.00			200,000.00	100%		20,000.00
20	Equipment Installation	284,000.00	284,000.00			284,000.00	100%		28,400.00
21	CT Support Steel	200,000.00	200,000.00			200,000.00	100%		20,000.00
~	Testing/Inspections								
	Hot Water System								
23	Plplug								
24	Insulation								
25	Pipe Supports	69,000.00	69,000.00			69,000.00	100%		6,900.00
26	Testing/Inspection								
~	RO System								
	Not In Scope				,				

Description of Item G:

Page 3 of 8

Air Con Natural Domes	Description of Work ressor System as Piping Pipe Supports fulline Devices/Controls Testing/Inspection HW/CW Systems	Scheduled Value 217,550.00 16,100.00	WORK COMPLETED From This Previous Application (D + E) (D + E) 217,550.00 16 100.00	LETED This Period	Other (Not in D or E)	Total Completed to Date	% %	Balance to Finish	Retainage Ten %
Air Con Naturai Domes	or System Not In Scope Piping Pipe Supports te Devices/Controls esting/Inspection (CW Systems	Value 217,550.00 16,100.00	From Previous Application (D + E) 217,650,00 16,100.00	This Period	(Not in D or E)	Completed to Date	(G * C) %	Finish	Ten %
Air Con Natura Domes	or System Not in Scope Piping Pipe Supports te Devices/Controls esting/Inspection /CW Systems	217,650.00 16,100.00	(U + E) 217,650.00 16,100.00			(Describe Below)			
Air Con Natural Domes	or System Not in Scope Piping Pipe Supports te Devices/Controls esting/Inspection /CW Systems	217,550.00 15,100.00	217,550,00			(שיביר)			
Domes	Not in Scope Piping Pipe Supports La Devices/Controls esting/Inspection /CW Systems	217,550.00 16,100.00	217,550.00						
Domes	Piping Pipe Supports In Devices/Controls esting/Inspection (CW Systems	217,550.00 16,100.00	217,550.00						
Domes	Piping Pipe Supports Ie Devices/Controls esting/Inspection /CW Systems	217,550.00 16,100.00	217,550.00						
Domes	Pipe Supports to Devices/Controls esting/Inspection /CW Systems	16,100.00	16,100,00			217,550.00	100%		21,755.00
Domes	In Devices/Controls esting/Inspection /CW Systems					16,100.00	100%		1,610.00
Domes	esting/Inspection /CW Systems								
Domes	ICW Systems								
	1								
	Piping								
	Insulation								
	Equipment Installation								
	Relocate Backflow Preventer								
38 9	Testing/Inspection								
Sanitary/Oil Waster/Storm	faster/Storm								
39 Sa	Sanitary/OW Piping								
40 Sewer Ej	Sewer Ejector Pump Equipment	54,000.00	54,000.00			54,000.00	100%		5,400.00
	Oil Separator	29,000.00	29,000.00			29,000.00	100%		z,900.00
	Testing/Inspection								
Electrical									
	Medium Voltage Feeder Cables	100,000.00	100,000.00			100,000.00	100%		10,000.00
44 Equi	Equipment Installation	413,100.00	413,100.00			413,100.00	%001		41,310.00
	Power Distribution	263,000.00	263,000.00			263,000.00	100%		26,300.00
46	Cable Tray	279,000.00	279,000.00			279,000.00	100%		00.002,72
47	Lighting								
	Substation Grounding								
49	Security								
50 F	Fire Alarn/EWS								
	PMCS Controls								
	Conduit and Wiring for HVAC and Process Controls								

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ltem .		,							
	Description of Work	Scheduled	WORK COMPLETED	PLETED	Other	Total		Balance to	Retainage
.oN		Value	From Previous Application (D + E)	This Period	(Not in D or E)	Completed to Date (Describe Below) (D+E+F)	(G ÷ C) %	Finish	Ten %
	Architectural								
53	Control Room Fitout								
54	Patching Roof Penetrations Labor to Install Interior CMU Walls, Paint,								
	Install D/F/H per Previously issued Bid								
22	Allefiate #13 Otafilluation Documents	200.000.00	200.000.00			200,000.00	100%		20,000.00
26	Other	25,900.00	25,900.00			25,900.00	100%		2,590.00
	RO Distribution Scope	,							
57	Demo	67,000.00	67,000.00			67,000.00	100%		6,700.00
	Taxes								
28	Taxes	204,750.00	204,750.00			204,750.00	100%		20,475.00
-	Others								
59	Fire Protection (Base)	149,000.00	149,000.00			149,000.00	100%		14,900.00
60	CWT Alternate Material Stainless	33,927.00	33,927.00			33,927.00	100%		3,392.70
	Additional Valves on NPCW and CWW	0 0 7 7 0 0	004400			8 644 00	100%		864.40
5 5	Stormuster Ditch Domo	0044.00	14 066 00			14.066.00	100%		1,406.60
2 5	Gravel at 11F/RO Tank Pad	2.145.00	2.145.00			2,145.00	100%		214.50
 -		0000115							
	Slab modifications at Substation to	,,					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
64	Accommodate Low Voltage Switchgear Added Cable Trav Unistrut Support at	18,393.00	18,393.00			18,393.00	100%		1,839.30
65	North Utility Rack	45,349.00	45,349.00			45,349.00	100%		4,534.90
99	Supplemental Cable Tray Material	8,086.00	8,086.00			8,086.00	100%		808.60
67	Others								
68	C.O. 10 Rework Doors Per Bulletin #3	11,451.00	11,451.00			11,451.00	100%		1,145.10
	General Conditions					00 000 07	10001		00000
69	Mobilization/Demobilization	18,000.00	18,000.00			18,000.00	%00L		1,600.01
2	General Conditions	502,000.00	502,000.00			502,000.00	100%		50°Z400.00
7	MEP PM & Badging								
72	Safety and Security Requirements	42,000.00	42,000.00			42,000.00	%00L		4,200.00
73	SWPPP	1,800.00	1,800.00			1,800.00	100%		180.00
74	Insurance	42,000.00	42,000.00			42,000.00	100%		4,200,00
2	Bullders Risk Insurance	12,000.00	12,000.00			12,000.00	100%		1,200.00
76	Project Closeout	15,000.00	15,000.00			15,000.00	100%		1,500.00

Description of Item G:

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Item	Description of Work	Scheduled	WORK COMPLETED	PLETED	Other	Total		Balance to	Retainage
No.		Value	From	This Period	(Not in D	Completed	(G ÷ C)	Finish	Ten %
			Previous Application (D + E)		or E}	to Date (Describe Betow) (D+E+F)	%		
12	Eautoment Trucking	20.000.00	20.000.00			20,000.00	100%		2,000.00
78	3D BIM Coordination								
	HVAC								
79	Ductwork	181,820.00	181,820.00			181,820.00	100%		18,182.00
80	Owner Furnished Equipment Installation	95,000.00	95,000.00			95,000.00	100%		9,500.00
81	HVAC Controls/Devices	222,000.00	222,000.00			222,000.00	100%		22,200.00
82	Testing/Inspection	3,000.00	3,000.00			3,000.00	100%	*****	300.00
	CWS/Temporary HW & CW Tie-In								
83	CW PipIng Above RO Space							****	
84	Piping	1,642,158.00	1,642,158.00			1,642,158.00	100%		164,215.80
85	CHW Piping to AHU's	209,200.00	209,200.00			209,200.00	100%		20,920.00
86	Insulation	133,500.00	133,500.00			133,500.00	100%		13,350.00
87	Pipe Supports	11,300.00	11,300.00			11,300.00	100%		1,130.00
88	Equipment Installation	406,000.00	406,000.00			406,000.00	100%	,	40,600.00
89	CT Support Steel		_						
90	Testing/Inspections	49,000.00	49,000.00			49,000.00	100%		4,900.00
	Hot Water System								
91	Piping	811,000.00	811,000.00			811,000.00	100%		81,100.00
92	Insulation	218,500.00	218,500.00			218,500.00	100%		21,850.00
93	Pipe Supports	3,700.00	3,700.00			3,700.00	100%		370.00
94	Testing/Inspection	23,000.00	23,000.00			23,000.00	100%		2,300.00
	RO System								
95	Not In Scope								
	Air Compressor System								
96	Not In Scope								
	Natural Gas								
97	Piping	11,450.00	11,450.00			11,450.00	100%		1,145.00
96	Pipe Supports								
66	Inline Devices/Controls								
100	Testing/Inspection	8,800.00	8,800.00			8,800.00	100%		880.00

Description of Item G:

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Description of Work Scheduled Fr Value Piping Scheduled Piping Fighra Donnestic HW/CW Systems 333,000.00 Equipment Installation 53,00.00 Relocate Backhow Preventer 12,000.00 Relocate Backhow Preventer 24,000.00 Sanitary/OW Piping 244,000.00 Floctrical 123,000.00 Floctrical 123,000.00 Collactical 123,000.00 Substation 563,000.00 Substation 563,000.00 Substation 130,000.00 Substation focunding 21,000.00 <th></th> <th>ď</th> <th>0</th> <th>0</th> <th>Ш</th> <th>L.</th> <th>9</th> <th></th> <th>н</th> <th>1</th>		ď	0	0	Ш	L.	9		н	1
Vibe From From Papersion From Propersion From Propersion From Propersion From Propersion Propersion Complete (PFI) Complete Propersion Complete (PFI) Propersion Complete (PFI) Propersion Complete (PFI) Propersion Complete (PFI) Propersion Complete (PFI) Propersion Complete (PFI) Complete (PFI) Propersion Complete (PFI) Complete (PFI) Propersion Complete (PFI) Complete (PFI) Propersion Propersion	Item	Description of Work	Scheduled	WORK COMF	PLETED	Other	Total		Balance lo	Retainage
Domestic HWCV Systems Agrication Instruction Domestic HWCV Systems	No.		Value	From	This Period	(Not in D	Completed to Date	(0 + C)	Finish	Ten %
Domentic HWCV Systems 338,000.00 338,000.00 100% 338,00				Application (D + E)		ĩ	(Describe Below) (D+E+F)			
Donnetic MNGW Systems 333,000.00 333,000.00 333,000.00 100% Fplig Foundation 86,000.00 86,000.00 100% Relation 86,000.00 85,000.00 100% Ration 86,000.00 85,000.00 100% Santaryoul Vasterificom 333,000.00 100% Santaryoul Vasterificom 333,000.00 100% Santaryoul Vasterificom 24,000.00 172,000.00 Santaryoul Vasterificom 24,000.00 100% Santaryoul Vasterificom 24,000.00 100% Santaryoul Vasterificom 24,000.00 100% Santaryoul Vasterificom 112,000.00 100% Median Vasterificom 113,000.00 100% Santaryoul Vasterificom 100% 100% Santaryou Vasterificatin 5,700.00										
Tatalition Tatalition Section of the study of the st	2	Domestic HW/CW Systems	338 000 000	338.000.00			338,000.00	100%		33,800.00
Equipment insulation Nationary Preventer Testinghinghout Preventer Testinghinghout Preventer Testinghinghout Preventer Testinghinghout Preventer Testinghinghout Preventer SamitaryOVM Piling 25,300.00 100% SamitaryOVM Piling Saver Flector Pune Equipment Saver Plector Pune Equipment Saver Plector Pune Equipment Saver Plector Pune Equipment Testinghinghout Saver Plector Pune Equipment Saver Plector Power Plector Pune Saver Plector Pune Equipment Saver Plector Pune Equipment Saver Plector Pune Equipment Saver Plector Power Plector Plector Plector Saver Plector Saver Plector Saver Plector Plector Saver Plector Saver	102	Insulation	86,000.00	86,000.00			86,000.00	100%		8,600.00
Recrete Same 25,300.00 75,300.00 75,300.00 100% SantaryOUN Master/Stom 24,000.00 12,000.00 12,000.00 100% SantaryOUN Master/Stom 24,000.00 12,000.00 12,000.00 12,000.00 100% SantaryOUN Visage Fedulpment 2,700.00 24,000.00 24,000.00 12,000.00 100% SantaryOUN Visage Fedulpment 5,700.00 12,900.00 123,000.00 100% Testing/inserptions 5,700.00 123,000.00 123,000.00 100% Flexification Testing/inserptions 5,700.00 100% 5,700.00 100% Flexification 5,700.00 123,000.00 123,000.00 100% 5,700.00 100% Flexification 5,700.00 123,000.00 123,000.00 100% 5,700.00 100% Flexification 5,900.00 123,000.00 100% 110% 5,700.00 100% Flexification 5,900.00 123,000.00 123,000.00 100% 100% 100% 100% 100%	103	Equipment Installation								
Tratinglispection 12,000.00 12,000.00 12,000.00 12,000.00 100% SanitaryOW Ping SanitaryOW Ping SanitaryOW Ping 24,000.00 24,000.00 100% 24,000.00 100% 24,000.00 120,000 100% 24,000.00 5,700.00 100% 24,000.00 5,700.00 100% 24,000.00 129,000.00 129,000.00 129,000.00 100% 24,000.00 129,000.00 129,000.00 129,000.00 100% 27,00.00	104	Relocate Backflow Preventer	25,300.00	25,300.00			25,300.00	100%		2,630.00
Sanitary/Oli Waster/Stomm Sanitary/Oli Waster/Stomm Sanitary/Oli Waster/Stomm 244,000.00 244,000.00 100% Severe Ejector Funds 5,700.00 5,700.00 100% 5,700.00 100% Severe Ejector Funds 5,700.00 5,700.00 5,700.00 129,000.00 100% 5,700.00 100% Floctifical Testing/inspections 5,700.00 129,000.00 129,000.00 100% 5,700.00 100%	105	Testing/Inspection	12,000.00	12,000.00			12,000.00	100%		1,200.00
Sanitary/OWT/Ping 244,000.00 244,000.00 100% 100% Sever Elector Pump Equipment 5,700.00 5,700.00 5,700.00 100% 5,700.00 100% Testing/insepctions 5,700.00 5,700.00 5,700.00 5,700.00 123,000.00 100% Testing/insepctions 5,700.00 5,700.00 5,700.00 123,000.00 100% Redium Voltage Feeter Cables 123,000.00 593,000.00 593,000.00 100% 100% Redium Voltage Feeter Cables 123,000.00 593,000.00 593,000.00 100% 100% Redium Voltage Feeter Cables 123,000.00 593,000.00 593,000.00 100% 100% Net Lay Controls 21,000.00 123,000.00 123,000.00 100% 100% Substation Gounding 21,000.00 123,000.00 100% 100% 100% Redium Voltage Feeter Cables 133,000.00 123,000.00 100% 100% 100% Station Control 100,000 100,000 100% 100% 100%		Sanitary/Oil Waster/Storm								
Sever Ejector Punye Equipment 5,700.00 5,700.00 5,700.00 5,700.00 5,700.00 100% Flextful Testinglinspectors 5,700.00 129,000.00 129,000.00 100% Flextful Festinglinspectors 5,700.00 5,700.00 129,000.00 100% Rettrain 559,000.00 559,000.00 559,000.00 129,000.00 100% Power Distribution 559,000.00 30,000.00 30,000.00 100% 559,000.00 100% Cashib Tay 30,000.00 30,000.00 30,000.00 129,000.00 100% 55,000.00 100% Security 30,000.00 120,000.00 30,000.00 129,000.00 100% 55,000.00 100% Security 5cound 120,000.00 120,000.00 120,000.00 100% 57,000.00 100% 57,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 57,000.00 100% 55,000.00 100% <td< td=""><td>106</td><td>Sanitary/OW Piping</td><td>244,000.00</td><td>244,000.00</td><td></td><td></td><td>244,000.00</td><td>100%</td><td></td><td>24,400.00</td></td<>	106	Sanitary/OW Piping	244,000.00	244,000.00			244,000.00	100%		24,400.00
Total Total 5,700.00 5,700.00 5,700.00 100% Flectifical Resting/insepctions 5,700.00 100% 5,700.00 100% Flectifical Resting/insepctions 5,700.00 129,000.00 129,000.00 100% Flectifical Resting/insepctions 559,000.00 559,000.00 559,000.00 100% Resting/insepctions 559,000.00 559,000.00 59,000.00 100% 100% Cable Tray 30,000.00 211,000.00 211,000.00 100% 100% Substation Scounding Substation Scounding 11,000.00 100% 100% File AlamEWS 211,700.00 139,000.00 100% 100% Architour 23,000.00 180,000.00 100% 100% Totake Scounds 213,700.00 100% 100% 100% Architour 23,000.00 180,000.00 100% 100% Architour 23,000.00 180,000.00 100% 100% Totake scounds 130,000.00 <td>107</td> <td>Sewer Ejector Pump Equipment</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	107	Sewer Ejector Pump Equipment								
Tasting/insepctions 5,700.00 5,700.00 5,700.00 5,700.00 100% Flettfall Testing/insepctions 5,700.00 123,000.00 100% 5,700.00 100% Returbinant installation 559,000.00 559,000.00 123,000.00 100% 559,000.00 100% Patrian 559,000.00 559,000.00 559,000.00 559,000.00 100% 559,000.00 100% Substant Substant 559,000.00 51,000.00 559,000.00 100% 559,000.00 100% 559,000.00 100% 559,000.00 100% 559,000.00 100% 559,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% 55,000.00 100% <t< td=""><td>108</td><td>Oil Seperator</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>00 025</td></t<>	108	Oil Seperator								00 025
Electrical Medium Voltage Feeder Cables 123,000.00 129,000.00 129,000.00 129,000.00 100% Medium Voltage Feeder Cables 129,000.00 589,000.00 589,000.00 100% Feujiment Installation Cable Tay Ucbling 589,000.00 589,000.00 589,000.00 100% Substation Grounding 44,000.00 59,000.00 59,000.00 59,000.00 100% Substation Grounding 14,000.00 59,000.00 59,000.00 100% 21,000.00 100% Security 21,000.00 21,000.00 21,000.00 21,000.00 100% 21,000.00 100% Fire AlamEWS 21,700.00 130,000.00 23,000.00 130,000.00 100% 100% Architectural 23,000.00 15,000.00 15,000.00 100% 100% 100% 100% 100% 100% Architectural 138,000.00 15,000.00 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 1	109	Testing/Insepctions	\$,700.00	5,700.00		_	5,700.00	100%		2/0.00
Mediun Voltage Feeder Cables 129,000.00 129,000.00 129,000.00 129,000.00 100% Fequipment Installation Equipment Installation Substitution 558,000.00 558,000.00 558,000.00 100% 558,000.00 100% Fequipment Installation Substitution Substitution Substitution Fire Annerwise Fire Annorwise Fire Annorwise Fire Annorwise Fire Annorwise Fire Anno		Electrical								
Equipment Installation Equipment Installation Equipment Installation Equipment Installation Ess,000.00 569,000.00 100% Ess,000.00 100% 211,000.00 100% 21,000.00 100% <td>111</td> <td>Medium Voitage Feeder Cables</td> <td>129,000.00</td> <td>129,000.00</td> <td></td> <td></td> <td>129,000.00</td> <td>100%</td> <td></td> <td>12,900.00</td>	111	Medium Voitage Feeder Cables	129,000.00	129,000.00			129,000.00	100%		12,900.00
Power Olstribution 559,000.00 569,000.00 100% 5 Cable Tray 30,000.00 59,000.00 100% 55,000.00 100% Cable Tray 30,000.00 30,000.00 30,000.00 100% 55,000.00 100% Cable Tray 21,000.00 21,000.00 21,000.00 100% 21,000.00 100% Security 21,000.00 21,000.00 21,000.00 123,000.00 100% 21,000.00 100% File AlmuEws 56,400.00 21,700.00 21,700.00 130,000.00 100% 21,700.00 100% Architectural 180,000.00 23,000.00 23,000.00 100% 100% 100% 100% Architectural 21,700.00 15,500.00 100%	112	Equipment Installation								
Cable Tray 30,000.00 30,000.00 30,000.00 100% Lighting 21,000.00 21,000.00 100% 43,00.00 100% Substation founding 44,300.00 21,300.00 100% 43,300.00 100% Security Security 120,400.00 100% 43,300.00 100% Fire AlamEws 54,00.00 120,400.00 100% 100% 44,300.00 Acting Net Notes 55,00.00 180,000.00 100% 100% 100% Architectural 23,000.00 180,000.00 160,000.00 100% 100% Architectural 23,000.00 23,000.00 165,00.00 100% 100% Architectural 24,000.00 165,00.00 165,00.00 100% 100% Architectural 23,000.00 165,00.00 100% 100% 100% Architectural 24,000.00 165,00.00 100% 100% 100% Control Readiation Document, 16,000.00 100% 100% 100%	113	Power Distribution	569,000.00	569,000.00			569,000.00	100%		56,900.00
Lighting substation Grounding 211,000.00 50,400.00 211,000.00 100% 50,400.00 213,000.00 100% 50,400.00 213,700.00 100% 50,400.00 213,700.00 100% 50,400.00 213,700.00 100% 55,400.00 213,700.00 100% 55,00.00 23,000.00 23,000.00 23,000.00 23,000.00 23,000.00 23,000.00 23,000.00 23,000.00 23,000.00 23,000.00	114	Cable Tray	30,000.00	30,000.00			30,000.00	100%		3,000.00
Substation Grounding 44,300.00 44,300.00 44,300.00 100% Security Security 120,400.00 120,400.00 100% File Alamiteds Security 120,400.00 120,400.00 100% File Alamiteds Security 120,400.00 137,700.00 100% File Alamiteds 31,700.00 130,000.00 130,000.00 130,000.00 Architectural 23,000.00 130,000.00 130,000.00 100% 23,000.00 Architectural 23,000.00 15,500.00 100% 100% 100% Architectural 23,000.00 15,500.00 100% 100% 100% Architectural 23,000.00 105,000.00 105,000.00 100% 100% Labor to Install Interior CMU Walls, Paint, Install Diffilly per Previously issued Bid Alternate Kit 105,000.00 100% 100% Alternate Kit 105,000.00 105,000.00 100% 100% 100% Alternate Kit 105,000.00 105,000.00 105,00.00 100% 100% <t< td=""><td>115</td><td>Lighting</td><td>211,000.00</td><td>211,000.00</td><td></td><td></td><td>211,000.00</td><td>100%</td><td></td><td>21,100.00</td></t<>	115	Lighting	211,000.00	211,000.00			211,000.00	100%		21,100.00
Security 120,400.00 120,400.00 120,400.00 120,400.00 120,400.00 120,400.00 120,400.00 100% 120,400.00 100% 120,400.00 100% 120,400.00 100% 120,400.00 100% 120,400.00 100% 120,400.00 100% 120,400.00 100% 120,400.00 100% 120,400.00 100% 120,400.00 100% 100	116	Substation Grounding	44,300.00	44,300.00			44,300.00	100%		4,430.00
Fire AlamJEWS 213,700.00 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 213,700.00 100% 23,000.00 100%	117	Security	120,400.00	120,400.00			120,400.00	100%		12,040.00
PMCS Controls 65,400.00 65,400.00 65,400.00 100% 1 Architectural 23,000.00 180,000.00 180,000.00 100% 100% 1 Architectural 23,000.00 23,000.00 23,000.00 100% 100% 100% Architectural 23,000.00 15,500.00 15,500.00 100% 100% 100% Patching Roof Penetrations 15,500.00 15,500.00 100% 100% 100% 100% Alternate #13 Clarification Document, 105,000.00 105,000.00 100% <td< td=""><td>118</td><td>Fire AlamvEWS</td><td>213,700.00</td><td>213,700.00</td><td></td><td></td><td>213,700.00</td><td>100%</td><td></td><td>21,370.00</td></td<>	118	Fire AlamvEWS	213,700.00	213,700.00			213,700.00	100%		21,370.00
Consider and Virtings for HMC and Process Controls 180,000.00 180,000.00 100% Architectural Control Room Filout 23,000.00 15,500.00 100% Architectural Control Room Filout 15,500.00 100% 15,500.00 100% Labor Datching Roof Penetrations 15,500.00 15,500.00 100% 100% Labor Datching Roof Penetrations 15,500.00 100% 100% 100% Alternate #13 Clarification Document, install D/FH per Penviously issued Bid 105,000.00 100% 4,000.00 100% RO Distribution Scope Other 4,000.00 110,250.00 100% 100% Taxes Taxes 110,250.00 110,250.00 100% 100%	119	PMCS Controls	65,400.00	65,400.00			65,400.00	100%		6,540.00
Architectural Z3,000.00 Z3,000.00 Z3,000.00 100% Control Room Filout 15,500.00 15,500.00 100% 15,500.00 100% Labor to Install [Interior CMU Walls, Paint, install [Interior Paint, Paint, Paint, Paint, Paint, Paint, Paint, Paint, Taxes 110,250.00 100% 100%	120	Conduit and Vitring for HVAC and Process Controls	180,000.00	180,000.00			180,000.00	100%		18,000.00
Control Room Filout 23,000.00 23,000.00 100% Patching Roof Penetrations 15,500.00 15,500.00 100% Labor to Install Interior CMU Walls, Install DFH per Toron Mulls, Install DFH per Patching Roof Penetrations 15,500.00 15,500.00 100% Alternate All Alternate All 16,000.00 105,000.00 100% Alternate All Alternate Field 105,000.00 105,000.00 100% Alternate All Childreation Document, dated 7-1-16 105,000.00 100% 4,000.00 Conter Alternate All 110,250.00 100% 4,000.00 100% Taxes Taxes 110,250.00 110,250.00 100% 100%		Architectural								
Patching Roof Penetrations 15,500.00 15,500.00 15,500.00 100% Labor to install Interior CMU Walls, Paint, Install DFH per eviously Issued Bid Alternate #13 Clarification Document, dated 7-1-16 105,000.00 105,000.00 100% Alternate #13 Clarification Document, dated 7-1-16 105,000.00 105,000.00 100% RO Distribution Scope 0.016r 4,000.00 100% 4,000.00 Taxes 110,250.00 110,250.00 110,250.00 100%	121	Control Room Fitout	23,000.00	23,000.00			23,000.00	100%		2,300.00
Install D/FH per Previously Issued Bid Alternate #13 Clarification Document, dated 7-1-16 CO bistribution Scope Taxes	122	Patching Roof Penetrations	15,500.00	15,500.00			15,500.00	100%		00.066,1
Alternate #13 Clarification Document, dated 7-1-16 105,000.00 100% 100% Other 4,000.00 4,000.00 100% 4,000.00 100% RO Distribution Scope 0 110,250.00 110,250.00 100% 110,250.00 100% Taxes Taxes 110,250.00 110,250.00 110,250.00 100%		Install D/F/H per Previously Issued Bid								
dated 7-1-16 105,000.00 105,000.00 100% Other 4,000.00 4,000.00 4,000.00 100% RO Distribution Scope 4,000.00 4,000.00 100% 4,000.00 Taxes Taxes 110,250.00 110,250.00 110,250.00 100%		Alternate #13 Clarification Document,								
Other 4,000.00 4,000.00 4,000.00 100% 100% RO Distribution Scope Demo 110,250.00 110,250.00 100% 11	123	dated 7-1-16	105,000.00	105,000.00			105,000.00	100%		10,500.00
RO Distribution Scope Demo Taxes 110,250.00 110,250.00 110,250.00 100%	124	Other	4,000.00	4,000.00			4,000.00	100%		400.00
Taxes Demo 110,250.00 110,250.00 110,250.00 100%		RO Distribution Scope								
Taxes Taxes 110,250.00 110,250.00 110,250.00	125	Demo								
Taxes 110,250.00 110,250.00 110,250.00	126	Taxes						1000		11 001 00
Totals	127	Taxes	110,250.00	110,250.00			110,250.00	100%		00.620,11
	Totals									

Description of Item G:

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Description of Work	Scheduled	WORK COMPLETED	PLETED	Other	Total	1	Balance to	Retainage
	Value	From Previous Application (D + E)	This Period	(Not in D ar E)	Completed to Date (Describe Bolow) (D+E+F)	(G + C) %	Finish	96 11 29
	2 024 00	UU PCU C			2.024.00	100%		202.40
	10 400 00	10,400,00			10.400.00	100%		1,040.00
CAR 5 Heating #1	16.631.00	16.631.00			16,631.00	100%		1,663.10
CAR 6 CMU Rescope	63,139.00	63,139.00			63,139.00	100%		6,313.90
CAR 7 Temp Power UPS	569.00	569.00			569.00	100%		56.90
CAR 8 Louver Blanks	2,408.00	2,408.00			2,408.00	100%		240.80
CAR 9 Elevator Generator	5,881.00	5,881.00			5,881.00	100%		588.10
CAR 10 Transformer Lugs	578.00	578.00			578.00	100%		57.30
CAR 11 Added Break Metal	2,753.00	2,753.00			2,753.00	100%		2/5.50
CAR 12 Added Roof Pavers	4,976.00	4,976.00			4,976.00	100%		497.60
CAR 13 Mezz Panels and Transformers	23,806.00	23,806.00			23,806.00	100%		2,380.60
CAR 14 Pump Terminal Boxes	2,565.00	2,565.00			2,565.00	100%		256.50
CAR 15 Fire Dept Connection	8,996.00	8,996.00			8,996.00	100%		899.60
CAR 16 Added Sprinkler Head	27,425.00	27,425.00			27,425.00	100%		2,742.50
CAR 17 Fiber Change	10,906.00	10,906.00			10,906.00	100%		1,090.60
CAR 18 AKD20 Tray	10,542.00	10,542,00			10,542.00	100%		1,054.20
CAR 19 Bulleting #4	38,079.00	38,079.00			38,079.00	%001		3,001.30
CAR 20 Building Permit	10,506.25	10,506.25			10,505.25	%001		00.909
CAR 21 Heating #2	8,980.00	8,980.00			307.00	100%		30.70
CAR 22 Hydr. Split	301.00	00.200			6.075.00	100%		607.50
CAR 23 400 Tie In	00.070,0	00.610,0			4.176.00	100%		417.60
	00'07'54	00.001,4			1.694.00	100%		169.40
CAK 25 CONTOI KOOM WINDOWS	191.00	1.191.00			1,191.00	100%		119.10
CAN SO INSC LINC	615.00	615.00			615.00	100%		61.50
CAD 28 Transh Cutting	8 981 00	8.981.00			8,981.00	100%		898.10
	4 982 00	4 982.00			4,982,00	100%		498.20
CAR 30 Scran Pine Removal	(614.00)	(614.00)			(614.00)	100%		(61.40)
CAD 34 Completioning Asriet	116 915 001	116 915 001			(16.915.00)	100%		(1,691.50)
CAR 31 COMMISSIONING ASSIST	4.976.00	4.976.00			4,976.00			497.60
	(750.00)	(750.00)			(150.00)	100%		(75.00)
CAR 34 400 The lo heirlation	2.954.00	2.954.00			2,954.00	100%		295.40
	1760 001	1750.001			(750.00)	100%		(75.00)
CAR 33 Light OWNER CIERT	2 196.00	2.196.00			2,196.00			219.60
CAR 37 Cone Linht Credit	1780.001	(00.087)			(780.00)	100%		(78.00)
AN ST COLO LIBIT CLOUD								

Description of Item G:

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WONK CONTLETED Other Total Other Total G:1 Balance to (G: C) Balance to (G: C)	8	v	D	э	٤	σ		Ξ	-
4,244.00 4,244.00 4,244.00 100% 7,860.00 7,365.00 7,365.00 100% 7,365.00 7,365.00 100% 7,360.00 7,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,169.00 100% 1,169.00 1,199.00 100% 1,136.00 1,199.00 100% 1,136.00 1,199.00 100% 1,136.00 1,1356.073.26 1,13.56.073.26	Description of Work	Scheduled Value	WO3K COM From Previous Application (D + E)	PLETED This Period	Other (Not in D or E)	Total Completed to Date (Describe Below) (D+E+F)	{G ÷ C}	Balance to Finish	Retainage Ten %
13,351,570.25 5,103.00 13,356,673.25	CAR 38 Split Syst Relocation CAR 39 Battery Charger Install CAR 40 Bolic Controls CAR 41 Elevator Lighs CAR 43 Replace damanged floor sinks CAR 43 Replace damanged floor sinks	4,244.00 1,629.00 7,84.00 3,934.00 1,169.00		3,934.00 1,169.00		4,244.00 1,629.00 7,840.00 3,934.00 1,169.00	100% 100% 100% 100%		424.40 162.90 73.60 393.40 116.90
		13,356,673.25	13,351,570.25	5,103.00		13,356,673.25			1,335,667.33

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

9/22/2020 3:14:46 PM

in

Case No(s). 20-1534-EL-EEC

Summary: Application Application to Commit Energy Efficiency/Peak Demand Reduction Programs (Mercantile Customers Only), GE Aviation - High Efficiency Chills electronically filed by Carys Cochern on behalf of Duke Energy