



Case No.: 12-2690-EL-EEC

Mercantile Customer: Cincinnati Public Schools (SCPA)

Electric Utility: Duke Energy

**Program Title or
Description:** HVAC (CUSTOM)

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.

Section 1: Mercantile Customer Information

Name: **Cincinnati Public Schools**

Principal address: **2651 Burnet Avenue Cincinnati, Ohio 45219**

Address of facility for which this energy efficiency program applies:

108 West Central Parkway Cincinnati Ohio 45202 (SPCA)

Name and telephone number for responses to questions:

Grady Reid Jr 513-287-1038

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. (See - Appendix A)**
- 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)).
- 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):**
July 2009
- 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: _____kWh

- 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: **55,240 kWh savings**
(Refer to Appendix B for calculations and supporting documents).

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.
-

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?

July 2009

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

28.6 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 **\$4,000.00. Refer to Appendix C.**

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 10.19 (**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 **\$62,100**

The utility's program costs were **\$2,096**

The utility's incentive costs/rebate costs were **\$4,000**

Refer to Appendix D for calculations

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 Rebate 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.



DUKE ENERGY
Mercantile Self Direct Program
139 East Fourth Street
Cincinnati, OH 45202
513 629 5572 fax

September 7, 2012

Mr. Don Elbe
Cincinnati Public Schools - SCPA
2651 Burnet Avenue
Cincinnati, Ohio 45219

Subject: Your Application for a Duke Energy (**Custom – HVAC**) Mercantile Self-Direct Rebate

Dear Mr. Elbe:

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page two, a total rebate of \$4000.00 has been proposed for your HVAC project completed in the July 2009 calendar year. **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 two
- completing the PUCO-required affidavit on page three.

Please return the documents to my attention via fax at 513-629-5572 or e-mail to SelfDirect@Duke-Energy.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. Following PUCO's approval, Duke Energy will remit payment.

At Duke Energy, 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,

Grady Reid, Jr
Product Manager
Mercantile Self Direct Rebates

cc: Mike Heath, Duke Energy
Rob Jung, WECC
Lucas Dixon, PlugSmart

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

Rebate is accepted.

Rebate is declined.

By accepting this rebate, Cincinnati Public Schools 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, Cincinnati Public Schools 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, Cincinnati Public Schools 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

If rebate is declined, please indicate reason (optional):



Don Elbe

9-19-12

Customer Signature

Printed Name

Date

Proposed Rebate Amounts

Measure ID	Energy Conservation Measure (ECM)	Proposed Rebate Amount
ECM-1	SCPA – Energy Recovery Ventilator ERU - 1	\$2000.00
ECM-2	SCPA – Energy Recovery Ventilator ERU - 2	\$2000.00
Total		\$4000.00



Public Utilities Commission

Application to Commit Energy Efficiency/Peak Demand Reduction Programs (Mercantile Customers Only)

Case No.: ___ - ___ -EL-EEC

State of Ohio :

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

- 1. I am the duly authorized representative of: Cincinnati Public Schools
2. I have personally examined all the information contained in the foregoing application...
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.

Signature of Affiant & Title (Don Elbe)

Sworn and subscribed before me this 19th day of September, 2012 Month/Year

Signature of official administering oath

Angela F. Tolle, Notary Public
Print Name and Title

My commission expires on Sept 11, 2013

ANGELA F. TOLLE
Notary Public, State of Ohio
My Commission Expires Sept. 11, 2013

20903690 01 SCPA		
108 CENTRAL PKY W		
CINCINNATI, OH 45202		
Date	Days	Actual KWH
7/23/2012	32	286,186
6/21/2012	30	257,698
5/22/2012	29	276,818
4/23/2012	32	257,333
3/22/2012	29	251,050
2/22/2012	29	216,125
1/24/2012	34	228,245
12/21/2011	30	232,810
11/21/2011	31	262,186
10/21/2011	29	259,385
9/22/2011	30	306,658
8/23/2011	29	279,360
Total		3,113,854

Appendix B - SCPA Energy Savings Achieved

ECM #	Facility	Baseline Used			Post Project Actual			Hours of Operation ¹	Savings		
		Description	Qty	Annual kWh (each)	Summer Coincident kW (each)	Description	Annual kWh (each)		Summer Coincident kW (each)	Annual kWh (each)	Summer Coincident kW (each)
1	SCPA	25,500 CFM (each) ERU-1 and ERU-2 before Heat recovery wheels added	2	37,117	60	Heat recovery wheels added to ERU 1 and ERU 2	11,408	21	1,225	25,709	13.3
Totals				74,234	60		22,816	42		51,418	26.6

After consideration of line losses, total energy savings are **55,240 kWh and 28.6 summer coincident**. These values may also reflect minor DSMore modeling software rounding error.

Notes:

- 1 Hours of operation do not apply simply to heat recovery unit measures. kWh and kW values presented are the results of bin analysis presented in the attached pages.
- 2 Building Code baseline heating allowances are detailed on the attached pages.
Annual energy (kWh) savings values validated in the applicant heating energy model were input into the DSMore analysis software and modeled against a representative customer load shape to determine the coincident peak demand (kW) savings for this application

DETAILED CALCULATIONS

JAN 2012 V2.0

Salesforce Opportunity Name	Cinti Public Schools - SCPA - HRW	Application #	12-493 MSD	Rev.	0
Project Name	Cinti Public Schools - SCPA - HRW	State	OH		
ECM	1	Cinti Public Schools - SCPA - HRW - Heat Recovery Wheel for ERU-1 and ERU-2			

Notes:

1. Although there are **two** heat recovery wheels proposed for this project, the calculations below are for **ONE** heat recovery wheel (the wheels are identical), & the quantity in cell C15 on the "Energy Savings" tab is two.
2. all data from "SCPA ERU 1 and 2 Heat Wheel Submittal.pdf", except as otherwise noted
3. Calculation template is from App. 12-492 MSD - Cinti Public Schools - College Hill

USA_OH_Cincinnati.Muni.AP-Lunken.Field.724297_TMY3.bin
 HEAT RECOVERY WHEEL SAVINGS Same for ERU-1 & ERU-2 - see Note 1

Minimum Fraction Outdoor Air:	100%
Heat Recover Effectiveness:	71.8%
Set Point Temperature:	78 F
Set Point Enthalpy:	28.810 Btu/lba
Supply Air Temperature:	82.72 F
Supply Air Enthalpy:	30.760 Btu/lba
Supply Air Volume:	25,000 cfm
Supply Air Density:	0.075 lb/ft³

StrTemp (F)	EndTemp (F)	Toa (F)	hoa (Btu/lba)	hrs	foa	Tma (F)	hma (Btu/lba)	Savings	Baseline	Proposed
								Q (mmBTU)	Q (mmBTU)	Q (mmBTU)
105	109	107.0	0	0	100%	107.0	0.00	0.00	0.00	0.00
100	104	102.0	0	0	100%	102.0	0.00	0.00	0.00	0.00
95	99	96.1	42.6	12	100%	96.1	42.60	13.37	18.62	5.25
90	94	92.2	39.6	41	100%	92.2	39.60	35.73	49.77	14.03
85	89	87.6	37.7	142	100%	87.6	37.70	101.97	142.02	40.05
80	84	82.4	35.0	250	100%	82.4	35.00	125.00	174.09	49.09
75	79	77.2	33.4	287	100%	77.2	33.40	106.41	148.20	41.79
70	74	72.5	31.9	241	100%	72.5	31.90	60.15	83.78	23.63
65	69	68.0	29.1	252	100%	68.0	29.10	5.90	8.22	2.32
60	64	62.6	24.8	322	100%	62.6	24.80	0.00	0.00	0.00
55	59	57.1	21.9	222	100%	57.1	21.90	0.00	0.00	0.00
50	54	52.0	19.2	226	100%	52.0	19.20	0.00	0.00	0.00
45	49	47.5	17.3	151	100%	47.5	17.30	0.00	0.00	0.00
40	44	43.1	15.2	211	100%	43.1	15.20	0.00	0.00	0.00
35	39	37.6	12.9	206	100%	37.6	12.90	0.00	0.00	0.00
30	34	32.4	10.8	135	100%	32.4	10.80	0.00	0.00	0.00
25	29	27.7	9.0	99	100%	27.7	9.00	0.00	0.00	0.00
20	24	23.3	7.5	66	100%	23.3	7.50	0.00	0.00	0.00
15	19	18.3	5.9	36	100%	18.3	5.90	0.00	0.00	0.00
10	14	12.5	4.1	16	100%	12.5	4.10	0.00	0.00	0.00
5	9	7.5	2.7	5	100%	7.5	2.70	0.00	0.00	0.00
0	4	3.0	1.4	0	100%	3.0	1.40	0.00	0.00	0.00
Annual Total mmBTU:								448.53	624.70	176.16
Annual Ton-hours:								37,378	52,058	14,680
Chiller kW/Ton:								0.713	0.713	0.713
Cooling kWh:								26,650	37,117	10,467
Heat Recovery Hours of Operation:								1,225	1,225	1,225
Cooling kW:								21.76	30.30	8.54

Energy recovery wheel motor	
Motor Size hp:	1.0
Load Factor:	0.85
Motor Efficiency:	82.5%
hp to kW conversion:	0.7456
Motor kW:	0.768
Motor kWh:	941

Allocation of annual savings by month (calculations by WECC)

Trade ally only provided annual savings numbers. Combine HRW savings and motor use, then use % of cooling degree days by month to distribute annual savings appropriately.

Cooling Degree Day Source: <http://www.climate-zone.com/climate/united-states/ohio/greater-cincinnati-airport/>

	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual
CDD by Month	0	0	0	0	86	191	313	266	120	20	0	0	996
Degree Days % of Annual	0.0%	0.0%	0.0%	0.0%	8.6%	19.2%	31.4%	26.7%	12.0%	2.0%	0.0%	0.0%	100%
Degree Days % of Maximum	0.0%	0.0%	0.0%	0.0%	27.5%	61.0%	100.0%	85.0%	38.3%	6.4%	0.0%	0.0%	
Baseline kWh	0	0	0	0	3,205	7,118	11,664	9,913	4,472	745	0	0	37,117
Proposed kWh	0	0	0	0	985	2,188	3,585	3,047	1,374	229	0	0	11,408
kWh Savings	0	0	0	0	2,220	4,930	8,079	6,866	3,097	516	0	0	25,709
Baseline kW	0.00	0.00	0.00	0.00	8.33	18.49	30.30	25.75	11.62	1.94	0.00	0.00	30.30
Proposed kW	0.00	0.00	0.00	0.00	2.56	5.68	9.31	7.91	3.57	0.60	0.00	0.00	9.31
kW Savings	0.00	0.00	0.00	0.00	5.77	12.81	20.99	17.84	8.05	1.34	0.00	0.00	20.99

Appendix C -SCPA - Cash Rebate Calculation

HVAC

Measure	Quantity	Cash Rebate Rate	Amount (each)	Cash Rebate
Heat Recovery Units Added - ERU 1 and ERU- 2	2	50% of incentive that would be offered by the Smart \$aver Custom program	\$2,000.00	\$4,000.00
Totals	2			\$4,000.00

Appendix D -SCPA - UCT Value

HVAC

Measure	Total Avoided Cost (each)	Program Cost (each)	Incentive (each)	Quantity	Measure UCT
Heat recovery wheels added to ERU 1 and ERU 2	\$31,050	\$1,048	\$2,000	2	10.19
Totals	\$62,100	\$2,096	\$4,000	2	

Total Avoided Supply Costs \$62,100
 Total Program Costs \$2,096
 Total Incentive \$4,000

Aggregate Application UCT 10.19

Ohio Mercantile Self Direct Program

Application Guide & Cover Sheet

Questions? Call 1-866-380-9580 or visit 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. You may also fax to 1-513-419-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please indicate mercantile qualification:

- a single Duke Energy Ohio account
 multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)

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

Account Number	Annual Usage	Account Number	Annual Usage

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart \$aver® Custom Incentive. Self Direct incentives 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 requirements dictate that certain projects that may be Prescriptive in nature under the Smart \$aver program must be evaluated using the Custom process. Use the table on page two as a guide to determine which Self Direct program fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet. Where Mercantile Self Direct Prescriptive applications are listed, please refer to the measure list on that application. If your measure is not listed, you may be eligible for a Self Direct Custom rebate. Self Direct Custom applications, like Smart \$aver Custom applications, should include detailed analysis of pre-project and post-project energy usage and project costs. Please indicate which type of rebate applications are included in the table provided on page two.

Please check each box to indicate completion 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 checked="" type="checkbox"/> Manufacturer's Spec sheets	<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.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction
Lighting	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Prescriptive Lighting <input type="checkbox"/>	MSD Prescriptive Lighting <input checked="" type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input checked="" type="checkbox"/>
Heating & Cooling	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>
			MSD Custom Part 1 <input checked="" type="checkbox"/> MSD Custom General Worksheet <input checked="" type="checkbox"/>
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>
Chillers & Thermal Storage	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Chillers & Thermal Storage <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Motors & Pumps	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
VFDs	Not Applicable	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>	
Food Service	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Food Service <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Process	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	
Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>
Behavioral*** & No/Low Cost	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>		

** Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. **All equipment replacements due to failure or old age will be evaluated via the Custom program.**

*** Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

**** Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.

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 Smart \$aver® 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. Monthly calculations are best. You, the Duke Energy Ohio customer, or your equipment vendor / engineer should perform these calculations and submit them to Duke Energy for review. *We strongly encourage the use of modeling software (such as eQuest or comparable) for complex projects.*

Upon receipt of your application, an acknowledgement email will be sent to you 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.

Email your scanned form to: SelfDirect@duke-energy.com

Or, fax your form to 513-419-5572

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



1. Contact Information (Required)

Duke Energy Customer Contact Information					
Company Name	Cincinnati Public Schools				
Address	2651 Burnett Ave				
Project Contact	Don Elbe				
City	Cincinnati	State	OH	Zip Code	45219
Title					
Office Phone		Mobile Phone		Fax	
E-mail Address					

Equipment Vendor / Contractor / Architect / Engineer Contact Information					
Company Name	Plug Smart				
Address	1275 Kinnear Road Suite 229				
City	Columbus	State	OH	Zip Code	43212
Project Contact	Lucas Dixon				
Title	Operations Manager				
Office Phone	614-580-3352	Mobile Phone		Fax	1-800-518-5576
E-mail Address	lucas.dixon@plugsmart.com				
Describe Role					

Payment Information					
Payee Legal Company Name (as shown on Federal income tax return):	Cincinnati Public Schools				
Mailing Address	2651 Burnett Ave				
City	Cincinnati	State	OH	Zip Code	45219
Type of organization (check one) <input type="checkbox"/> Individual/Sole Proprietor <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Unit of Government <input type="checkbox"/> Non-Profit (non-corporation)					
Payee Federal Tax ID # of Legal Company Name Above:	31-6000758				
Who should receive incentive payment? (select one) <input checked="" type="checkbox"/> Customer <input type="checkbox"/> Vendor (Customer must sign below)					
If the vendor is to receive payment, please sign below: I hereby authorize payment of incentive directly to vendor:					
Customer Signature _____ Date ____/____/____ (mm/dd/yyyy)					

**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
 - 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.
Heat wheels on new air handlers and lighting compliance check
- C. When did you start and complete implementation?
Start date / (mm/yyyy) End date 07 / 2009 (mm/yyyy)
- D. Are you also applying for Self-Direct Prescriptive incentives and, if so, which one(s)¹?
Lighting sensors, premium efficient motors.
- 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. Please tell us if there is anything about your electrical energy projections (either for the baseline or the proposed project) that you are either unsure about or for which you have made significant assumptions. Attach additional sheets as needed.

Required: Attach a supplier or contractor invoice or other equivalent information documenting the Implementation Cost for each project listed in your application. (Note: self-install costs cannot be included in the Implementation Cost)

¹ If your project involves some equipment that is eligible for prescriptive incentives and some equipment that is likely eligible for custom incentives, 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.

**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) Don Elbe, 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 Incentives 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).

Don Elbe
Duke Energy Ohio, Inc Customer Signature

Print Name Don Elbe

Date 6-6-12

**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-E, 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)?
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"/> Attached a supplier or contractor's invoice or other equivalent information documenting the Implementation Cost for projects listed in your application? (Note: self-install costs cannot be included in the Implementation Cost) <input checked="" type="checkbox"/> (If submitting the General Worksheet) attached calculations documenting the energy usage and energy savings for each 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 Smart \$aver® team at 1-866-380-9580.

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 Incentive 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.
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.

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



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 incentives. 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 incentives;
 - 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*.



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. 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 incentive will be approved.
- Incentive 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	Don Elbe
Company	Cincinnati Public Schools

Equipment Vendor / Project Engineer Contact Information

Name	Lucas Dixon
Company	Plug Smart

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

The prescriptive incentive 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: **Heat Recovery Units**

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

Lighting		Heating/Cooling	X	Air Compressor		Energy Management System	
VFD		Motors/Pumps		Process Equipment		Other, describe below:	

Brief Project Description

Describe the Baseline (see note 3) Equipment/System	Describe the Proposed High Efficiency Project
No heat recovery units installed on air handlers	Heat recovery units installed on air handlers.

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

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		
	7:00 AM	3:00 PM					29	1,225

Energy Savings

	Baseline (see Note 3)	Proposed	Savings	Describe how energy numbers were calculated
Annual Electric Energy	34,853 kWh	0 kWh	34,853 kWh	
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	\$3,485
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)	\$16,000.00
Copy of vendor proposal is attached (see note 8)	Yes
Simple Electric Payback in years (see note 9)	4.590749067
Total Payback in years	4.590749067

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: **Savings only calculated for summer hours, gas heating systems are used during the winter.**

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.

May 30, 2012



To whom it may concern:

This letter is to confirm that for the new construction of Cincinnati Public school **SCPA (School for Creative and Performing Arts) (108 W Central Pkwy Cincinnati, OH 45202)**, for the **custom** rebate application, the heat recovery wheels were installed with a minimum unit cost listed below.

DESCRIPTION	QUANTITY	PRICE/FIXTURE	AMOUNT
Airxchange ATRX ERC-110220c heat wheel	2	\$8,000	\$16000

TOTAL	\$16,000
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This is also to confirm that for the new construction of **SCPA (School for Creative and Performing Arts) (108 W Central Pkwy Cincinnati, OH 45202)**, for the **prescriptive** rebate application, occupancy sensors and premium efficiency motors were installed with a minimum unit cost listed below.

DESCRIPTION	Model Number	QUANTITY	Nominal Size (Tons)	PRICE/FIXTURE	AMOUNT
Ceiling Mounted Occupancy Sensors	WattStopper DT-300	262	-	\$113.19	\$29655.75
Wall Mounted Occupancy Sensors	WattStopper DT-200, DW-100	218	-	\$75.33	\$16421.94
Premium Efficiency Motor	Baldor EM2539T-40hp	6	-	\$2588.30	\$15529.80
Premium Efficiency Motor	Baldor EM2515T-20hp	2	-	\$1512.50	\$3025.00
Premium Efficiency Motor	Baldor EM3218T- 5hp	3	-	\$471.86	\$1415.58
Premium Efficiency Motor	Baldor EM3311T-7.5hp	2	-	\$573.53	\$1147.06
Premium Efficiency Motor	Baldor EM3211T- 3hp	3	-	\$368.95	\$1106.85

TOTAL	\$68,301.98
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Thank you for your attention to this matter,

Don Elbe 7-3-12

Don Elbe
Utility Management Coordinator

APPLICATION AND CERTIFICATE FOR PAYMENT

TO OWNER:
CINCINNATI PUBLIC SCHOOLS
2315 IOWA AVENUE
CINCINNATI, OHIO 45206

PROJECT:
SCHOOL FOR CREATIVE & PERFORMING ARTS
108 W. CENTRAL PKWY
CINCINNATI, OHIO 45202

APPLICATION No: 21
APPLICATION DATE: 6/22/09
PERIOD TO: 6/30/09

FROM CONTRACTOR:
BEACON ELECTRIC COMPANY
7815 REDSKY DRIVE
CINCINNATI, OHIO 45249

VIA ARCHITECT:
COLE & RUSSELL ARCHITECTS
537 E. PETE ROSE WAY
CINCINNATI, OHIO 45202

PROJECT NO: _____
CONTRACT DATE: 8/14/07
CPS PO NUMBER: 526676
CUSTOMER ACCT NO: 30620
CONTRACT NO: 10960PO

CONTRACT FOR: School for Creative & Performing Arts

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment as shown below, in connection with the Contract
Continuation sheet is attached.

1. ORIGINAL CONTRACT SUM.....	\$	7,552,500.00
2. Net Change by Change Orders.....	\$	373,684.00
3. CONTRACT SUM TO DATE.....	\$	7,926,184.00
4. TOTAL COMPLETED & STORED TO DATE.....	\$	5,856,788.25
5. RETAINAGE		
a. 8-50% of Completed Labor.....	\$	83,424.16
b. 8% of Stored Material.....	\$	25,834.32
Total Retainage.....	\$	109,258.48
6. TOTAL EARNED LESS RETAINAGE.....	\$	5,747,529.77
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT.....	\$	5,011,576.58
8. CURRENT PAYMENT DUE.....	\$	735,953.19
9. BALANCE TO FINISH, INCLUDING RETAINAGE.....	\$	2,178,654.23

Change Order/Contract	ADDITIONS	DEDUCTIONS
Total Changes approved in Previous months by Owner	\$263,399.00	\$1,836.00
Total approved this month	\$112,121.00	\$0.00
TOTALS	\$375,520.00	\$1,836.00
NET CHANGES by Change Order	\$373,684.00	

The Contractor certified that the work covered by this pay request has been completed in accordance with the Contract Documents and that all progress payments previously paid by the State have been applied by the Contractor to discharge in full all of Contractor's obligations incurred in connection with the work covered by all prior pay requests.

[Signature] _____
Contractor Date 6/24/09

Based upon on-site observations, the firm affirms that the work has progressed to the percentage of completeness indicated on the pay request.

[Signature] _____
Architect Date 6/24/09

[Signature] _____
Construction Manager Date 6/24/09

Approved:

School District Treasurer

Date



[Signature]
MAUREEN L. MERKE
Notary Public, State of Ohio
My Commission Expires
July 8, 2013
1 OF 1

CONTINUATION SHEET

APPLICATION NUMBER: **21**

PERIOD TO: **6/30/09**

A ITEM NUMBER	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT in D or E)	G TOTAL COMPLETED & STORED TO DATE (D + E + F)	H % (G ÷ C)	I BALANCE TO FINISH (C - G)	J RETAINAGE 8% labor up to 50% stored material only	
			E PREVIOUS APPS. (D + E)	F THIS PERIOD ((C x %) - D - F)						
	GENERAL CONDITIONS									
1	Bond / Insurance	Material 75,000.00	75,000.00	0.00	0.00	75,000.00	100.00%	0.00	\$ -	
2	Permits & Fees	Material 35,000.00	29,750.00	350.00	0.00	30,100.00	86.00%	4,900.00	\$ -	
3	GC Submittals	Labor 10,000.00	10,000.00	0.00	0.00	10,000.00	100.00%	0.00	\$ 800.00	
4	"	Material 5,000.00	5,000.00	0.00	0.00	5,000.00	100.00%	0.00	\$ -	
5	Clean Up	Labor 36,500.00	25,550.00	1,204.50	0.00	26,754.50	73.30%	9,745.50	\$ 2,140.36	
6	"	Material 3,500.00	2,450.00	115.50	0.00	2,565.50	73.30%	934.50	\$ -	
7	Punchlist	Labor 5,000.00	0.00	0.00	0.00	0.00	0.00%	5,000.00	\$ -	
8	"	Material 2,500.00	0.00	0.00	0.00	0.00	0.00%	2,500.00	\$ -	
9	Temporary Electric	Labor 54,000.00	52,920.00	0.00	0.00	52,920.00	98.00%	1,080.00	\$ 4,233.60	
10	"	Material 50,000.00	50,000.00	0.00	0.00	50,000.00	100.00%	0.00	\$ -	
11	Allowances General #00300	Labor -	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
12	"	Material 100,000.00	87,833.00	1,806.00	0.00	89,639.00	89.64%	10,361.00	\$ -	
13	Allowances DSL / TELE #00300	Labor -	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
14	"	Material 20,000.00	15,146.00	2,564.00	0.00	17,710.00	88.55%	2,290.00	\$ -	
15	Close Out	Labor 10,000.00	0.00	0.00	0.00	0.00	0.00%	10,000.00	\$ -	
16	"	Material 10,000.00	0.00	0.00	0.00	0.00	0.00%	10,000.00	\$ -	
17	Attic Stock to owner	Material 5,000.00	0.00	0.00	0.00	0.00	0.00%	5,000.00	\$ -	
18	Training	Labor 2,400.00	0.00	0.00	0.00	0.00	0.00%	2,400.00	\$ -	
19	Project Manager	Labor 65,000.00	45,500.00	2,145.00	0.00	47,645.00	73.30%	17,355.00	\$ 3,811.60	
20	Project Superintendent	Labor 50,000.00	35,000.00	1,650.00	0.00	36,650.00	73.30%	13,350.00	\$ 2,932.00	
21	Safety	Labor 12,000.00	8,400.00	396.00	0.00	8,796.00	73.30%	3,204.00	\$ 703.68	
22	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
23	ALTERNATE #E2 - Winch Electric	Labor 4,500.00	3,375.00	225.00	0.00	3,600.00	80.00%	900.00	\$ 288.00	
24	"	Material 5,000.00	3,750.00	250.00	0.00	4,000.00	80.00%	1,000.00	\$ -	
25	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
26	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
27	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
28	SITE WORK		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
29	Conduit - Brch & Fdr	Labor 55,000.00	46,750.00	0.00	0.00	46,750.00	85.00%	8,250.00	\$ 3,740.00	
30	"	Material 40,000.00	34,000.00	0.00	0.00	34,000.00	85.00%	6,000.00	\$ -	
31	Wire - Brch & Fd	Labor 45,000.00	0.00	0.00	0.00	0.00	0.00%	45,000.00	\$ -	
32	"	Material 125,000.00	0.00	0.00	0.00	0.00	0.00%	125,000.00	\$ -	
33	Light Fixtures	Labor 25,000.00	0.00	0.00	0.00	0.00	0.00%	25,000.00	\$ -	
34	"	Material -	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
35	Trench / BF / Concrete	Labor 75,000.00	63,750.00	0.00	0.00	63,750.00	85.00%	11,250.00	\$ 5,100.00	
36	"	Material 145,000.00	123,250.00	0.00	0.00	123,250.00	85.00%	21,750.00	\$ -	
37	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
38	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
39	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
40	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
41	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
42	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
43	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
44	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
45	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
46	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
47	"		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
48	SHEET LABOR SUBTOTAL		449,400.00	291,245.00	5,620.50	0.00	296,865.50		152,534.50	23,749.24
49	SHEET MATERIAL SUBTOTAL		621,000.00	426,179.00	5,085.50	0.00	431,264.50		189,735.50	0.00
50	SUBTOTAL		\$ 1,070,400.00	\$ 717,424.00	\$ 10,706.00	\$ -	\$ 728,130.00	9.19%	\$ 342,270.00	\$ 23,749.24

CONTINUATION SHEET

APPLICATION NUMBER: **21** PERIOD TO: **6/30/09**

A ITEM NUMBER	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT in D or E)	G TOTAL COMPLETED & STORED TO DATE (D + E + F)	H BALANCE TO FINISH (C - G)	I RETAINAGE 8% labor up to 50% stored material only			
			PREVIOUS APPS. (D + E)	THIS PERIOD ((C x %) - D - F)					%		
LOWER FLOOR - AREA A											
1	Electrical Equipment	Labor	5,000.00	4,950.00	0.00	0.00	4,950.00	99.00%	50.00	\$	396.00
2	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$	-
3	Conduit - Brch & Fdr	Labor	20,000.00	19,800.00	0.00	0.00	19,800.00	99.00%	200.00	\$	1,584.00
4	"	Material	16,000.00	16,000.00	0.00	0.00	16,000.00	100.00%	0.00	\$	-
5	Wire - Brch & Fdr	Labor	10,000.00	9,900.00	0.00	0.00	9,900.00	99.00%	100.00	\$	792.00
6	"	Material	24,000.00	24,000.00	0.00	0.00	24,000.00	100.00%	0.00	\$	-
7	Light Fixtures	Labor	5,000.00	1,250.00	1,000.00	0.00	2,250.00	45.00%	2,750.00	\$	180.00
8	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$	-
9	Devices & Plates	Labor	1,500.00	0.00	0.00	0.00	0.00	0.00%	1,500.00	\$	-
10	"	Material	5,000.00	0.00	4,750.00	0.00	4,750.00	95.00%	250.00	\$	-
11				0.00	0.00	0.00	0.00	0.00%	0.00		
12				0.00	0.00	0.00	0.00	0.00%	0.00		
13				0.00	0.00	0.00	0.00	0.00%	0.00		
14	LOWER FLOOR - AREA B										
15	Electrical Equipment	Labor	5,000.00	4,950.00	0.00	0.00	4,950.00	99.00%	50.00	\$	396.00
16	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$	-
17	Conduit - Brch & Fdr	Labor	25,000.00	24,750.00	0.00	0.00	24,750.00	99.00%	250.00	\$	1,980.00
18	"	Material	16,000.00	16,000.00	0.00	0.00	16,000.00	100.00%	0.00	\$	-
19	Wire - Brch & Fdr	Labor	17,500.00	17,325.00	0.00	0.00	17,325.00	99.00%	175.00	\$	1,386.00
20	"	Material	24,000.00	24,000.00	0.00	0.00	24,000.00	100.00%	0.00	\$	-
21	Light Fixtures	Labor	7,500.00	1,875.00	375.00	0.00	2,250.00	30.00%	5,250.00	\$	180.00
22	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$	-
23	Devices & Plates	Labor	2,000.00	0.00	0.00	0.00	0.00	0.00%	2,000.00	\$	-
24	"	Material	5,000.00	0.00	4,750.00	0.00	4,750.00	95.00%	250.00	\$	-
25				0.00	0.00	0.00	0.00	0.00%	0.00		
26				0.00	0.00	0.00	0.00	0.00%	0.00		
27				0.00	0.00	0.00	0.00	0.00%	0.00		
28	LOWER FLOOR - AREA C										
29	Electrical Equipment	Labor	5,000.00	4,950.00	0.00	0.00	4,950.00	99.00%	50.00	\$	396.00
30	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$	-
31	Conduit - Brch & Fdr	Labor	30,000.00	29,700.00	0.00	0.00	29,700.00	99.00%	300.00	\$	2,376.00
32	"	Material	16,000.00	16,000.00	0.00	0.00	16,000.00	100.00%	0.00	\$	-
33	Wire - Brch & Fdr	Labor	20,000.00	19,800.00	0.00	0.00	19,800.00	99.00%	200.00	\$	1,584.00
34	"	Material	24,000.00	24,000.00	0.00	0.00	24,000.00	100.00%	0.00	\$	-
35	Light Fixtures	Labor	9,500.00	2,375.00	475.00	0.00	2,850.00	30.00%	6,650.00	\$	228.00
36	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$	-
37	Devices & Plates	Labor	2,500.00	0.00	0.00	0.00	0.00	0.00%	2,500.00	\$	-
38	"	Material	5,000.00	0.00	4,750.00	0.00	4,750.00	95.00%	250.00	\$	-
39				0.00	0.00	0.00	0.00	0.00%	0.00		
40				0.00	0.00	0.00	0.00	0.00%	0.00		
41				0.00	0.00	0.00	0.00	0.00%	0.00		
42				0.00	0.00	0.00	0.00	0.00%	0.00		
43				0.00	0.00	0.00	0.00	0.00%	0.00		
44				0.00	0.00	0.00	0.00	0.00%	0.00		
45				0.00	0.00	0.00	0.00	0.00%	0.00		
46				0.00	0.00	0.00	0.00	0.00%	0.00		
47				0.00	0.00	0.00	0.00	0.00%	0.00		
48	SHEET LABOR SUBTOTAL		165,500.00	141,625.00	1,850.00	0.00	143,475.00		22,025.00		11,478.00
49	SHEET MATERIAL SUBTOTAL		135,000.00	120,000.00	14,250.00	0.00	134,250.00		750.00		0.00
50	SUBTOTAL		\$ 300,500.00	\$ 261,625.00	\$ 16,100.00	\$ -	\$ 277,725.00	3.50%	\$ 22,775.00	\$	11,478.00

CONTINUATION SHEET

APPLICATION NUMBER: **21** PERIOD TO: **6/30/09**

A ITEM NUMBER	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT in D or E)	G TOTAL COMPLETED & STORED TO DATE (D + E + F)	H %	I BALANCE TO FINISH (C - G)	J RETAINAGE 8% labor up to 50% stored material only
			PREVIOUS APPS. (D + E)	THIS PERIOD ((C x %) - D - F)					
	1st FLOOR - AREA A								
1	Electrical Equipment	Labor 5,500.00	5,445.00	0.00	0.00	5,445.00	99.00%	55.00	\$ 435.60
2	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
3	Conduit - Brch & Fd	Labor 26,500.00	25,175.00	0.00	0.00	25,175.00	95.00%	1,325.00	\$ 2,014.00
4	"	Material	36,000.00	36,000.00	0.00	36,000.00	100.00%	0.00	\$ -
5	Wire - Brch & Fdr	Labor 19,000.00	15,200.00	950.00	0.00	16,150.00	85.00%	2,850.00	\$ 1,292.00
6	"	Material	54,000.00	48,600.00	2,700.00	51,300.00	95.00%	2,700.00	\$ -
7	Light Fixtures	Labor 10,000.00	1,500.00	500.00	0.00	2,000.00	20.00%	8,000.00	\$ 160.00
8	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
9	Devices & Plates	Labor 3,000.00	0.00	0.00	0.00	0.00	0.00%	3,000.00	\$ -
10	"	Material	10,000.00	0.00	9,500.00	9,500.00	95.00%	500.00	\$ -
11			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
12			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
13			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
14	1st FLOOR - AREA B								
15	Electrical Equipment	Labor 10,000.00	9,900.00	0.00	0.00	9,900.00	99.00%	100.00	\$ 792.00
16	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
17	Conduit - Brch & Fdr	Labor 36,500.00	27,375.00	5,475.00	0.00	32,850.00	90.00%	3,650.00	\$ 2,628.00
18	"	Material	36,000.00	32,400.00	3,600.00	36,000.00	100.00%	0.00	\$ -
19	Wire - Brch & Fdr	Labor 26,000.00	13,000.00	5,200.00	0.00	18,200.00	70.00%	7,800.00	\$ 1,456.00
20	"	Material	54,000.00	48,600.00	5,400.00	54,000.00	100.00%	0.00	\$ -
21	Light Fixtures	Labor 12,500.00	625.00	1,250.00	0.00	1,875.00	15.00%	10,625.00	\$ 150.00
22	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
23	Devices & Plates	Labor 4,000.00	0.00	0.00	0.00	0.00	0.00%	4,000.00	\$ -
24	"	Material	10,000.00	0.00	9,500.00	9,500.00	95.00%	500.00	\$ -
25			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
26			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
27			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
28	1st FLOOR - AREA C								
29	Electrical Equipment	Labor 11,000.00	10,890.00	0.00	0.00	10,890.00	99.00%	110.00	\$ 871.20
30	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
31	Conduit - Brch & Fdr	Labor 41,000.00	38,950.00	0.00	0.00	38,950.00	95.00%	2,050.00	\$ 3,116.00
32	"	Material	36,000.00	36,000.00	0.00	36,000.00	100.00%	0.00	\$ -
33	Wire - Brch & Fdr	Labor 30,000.00	22,500.00	1,500.00	0.00	24,000.00	80.00%	6,000.00	\$ 1,920.00
34	"	Material	54,000.00	48,600.00	5,400.00	54,000.00	100.00%	0.00	\$ -
35	Light Fixtures	Labor 15,000.00	1,500.00	750.00	0.00	2,250.00	15.00%	12,750.00	\$ 180.00
36	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
37	Devices & Plates	Labor 5,000.00	0.00	0.00	0.00	0.00	0.00%	5,000.00	\$ -
38	"	Material	10,000.00	0.00	9,500.00	9,500.00	95.00%	500.00	\$ -
39			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
40			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
41			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
42			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
43			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
44			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
45			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
46			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
47			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
48	SHEET LABOR SUBTOTAL		255,000.00	172,060.00	15,625.00	187,685.00		67,315.00	15,014.80
49	SHEET MATERIAL SUBTOTAL		300,000.00	250,200.00	45,600.00	295,800.00		4,200.00	0.00
50	SUBTOTAL		\$ 555,000.00	\$ 422,260.00	\$ 61,225.00	\$ 483,485.00	6.10%	\$ 71,515.00	\$ 15,014.80

CONTINUATION SHEET

APPLICATION NUMBER: **21** PERIOD TO: **6/30/09**

A ITEM NUMBER	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT in D or E)	G TOTAL COMPLETED & STORED TO DATE (D + E + F)	H % (G + C)	I BALANCE TO FINISH (C - G)	J RETAINAGE 8% labor up to 50% stored material only	
			PREVIOUS APPS. (D + E)	THIS PERIOD ((C x %) - D - F)						
2nd FLOOR - AREA A										
1	Electrical Equipment	Labor	5,000.00	4,950.00	0.00	0.00	4,950.00	99.00%	50.00	\$ 396.00
2	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
3	Conduit - Brch & Fdr	Labor	20,000.00	19,600.00	0.00	0.00	19,600.00	98.00%	400.00	\$ 1,568.00
4	"	Material	30,000.00	30,000.00	0.00	0.00	30,000.00	100.00%	0.00	\$ -
5	Wire - Brch & Fdr	Labor	10,000.00	9,800.00	0.00	0.00	9,800.00	98.00%	200.00	\$ 784.00
6	"	Material	46,000.00	46,000.00	0.00	0.00	46,000.00	100.00%	0.00	\$ -
7	Light Fixtures	Labor	5,000.00	2,000.00	1,250.00	0.00	3,250.00	65.00%	1,750.00	\$ 280.00
8	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
9	Devices & Plates	Labor	1,500.00	0.00	150.00	0.00	150.00	10.00%	1,350.00	\$ 12.00
10	"	Material	8,000.00	0.00	7,600.00	0.00	7,600.00	95.00%	400.00	\$ -
11				0.00	0.00	0.00	0.00	0.00%	0.00	
12				0.00	0.00	0.00	0.00	0.00%	0.00	
13				0.00	0.00	0.00	0.00	0.00%	0.00	
14	2nd FLOOR - AREA B									
15	Electrical Equipment	Labor	5,000.00	4,000.00	500.00	0.00	4,500.00	90.00%	500.00	\$ 360.00
16	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
17	Conduit - Brch & Fdr	Labor	25,000.00	22,500.00	1,250.00	0.00	23,750.00	95.00%	1,250.00	\$ 1,900.00
18	"	Material	30,000.00	30,000.00	0.00	0.00	30,000.00	100.00%	0.00	\$ -
19	Wire - Brch & Fdr	Labor	17,500.00	8,750.00	3,500.00	0.00	12,250.00	70.00%	5,250.00	\$ 980.00
20	"	Material	46,000.00	23,000.00	23,000.00	0.00	46,000.00	100.00%	0.00	\$ -
21	Light Fixtures	Labor	7,500.00	1,125.00	750.00	0.00	1,875.00	25.00%	5,625.00	\$ 150.00
22	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
23	Devices & Plates	Labor	2,000.00	0.00	0.00	0.00	0.00	0.00%	2,000.00	\$ -
24	"	Material	8,000.00	0.00	7,600.00	0.00	7,600.00	95.00%	400.00	\$ -
25				0.00	0.00	0.00	0.00	0.00%	0.00	
26				0.00	0.00	0.00	0.00	0.00%	0.00	
27				0.00	0.00	0.00	0.00	0.00%	0.00	
28	2nd FLOOR - AREA C									
29	Electrical Equipment	Labor	5,000.00	4,950.00	0.00	0.00	4,950.00	99.00%	50.00	\$ 396.00
30	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
31	Conduit - Brch & Fdr	Labor	30,000.00	29,400.00	0.00	0.00	29,400.00	98.00%	600.00	\$ 2,352.00
32	"	Material	30,000.00	30,000.00	0.00	0.00	30,000.00	100.00%	0.00	\$ -
33	Wire - Brch & Fdr	Labor	20,000.00	18,000.00	1,000.00	0.00	19,000.00	95.00%	1,000.00	\$ 1,520.00
34	"	Material	46,000.00	46,000.00	0.00	0.00	46,000.00	100.00%	0.00	\$ -
35	Light Fixtures	Labor	9,500.00	3,800.00	2,375.00	0.00	6,175.00	65.00%	3,325.00	\$ 494.00
36	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -
37	Devices & Plates	Labor	2,500.00	0.00	625.00	0.00	625.00	25.00%	1,875.00	\$ 50.00
38	"	Material	8,000.00	0.00	7,600.00	0.00	7,600.00	95.00%	400.00	\$ -
39				0.00	0.00	0.00	0.00	0.00%	0.00	
40				0.00	0.00	0.00	0.00	0.00%	0.00	
41				0.00	0.00	0.00	0.00	0.00%	0.00	
42				0.00	0.00	0.00	0.00	0.00%	0.00	
43				0.00	0.00	0.00	0.00	0.00%	0.00	
44				0.00	0.00	0.00	0.00	0.00%	0.00	
45				0.00	0.00	0.00	0.00	0.00%	0.00	
46				0.00	0.00	0.00	0.00	0.00%	0.00	
47				0.00	0.00	0.00	0.00	0.00%	0.00	
48	SHEET LABOR SUBTOTAL		165,500.00	128,875.00	11,400.00	0.00	140,275.00		25,225.00	11,222.00
49	SHEET MATERIAL SUBTOTAL		252,000.00	205,000.00	45,800.00	0.00	250,800.00		1,200.00	0.00
50	SUBTOTAL		\$ 417,500.00	\$ 333,875.00	\$ 57,200.00	\$ -	\$ 391,075.00	4.93%	\$ 26,425.00	\$ 11,222.00

CONTINUATION SHEET

APPLICATION NUMBER: **21** PERIOD TO: **6/30/09**

A ITEM NUMBER	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT in D or E)	G TOTAL COMPLETED & STORED TO DATE (D + E + F)	H BALANCE TO FINISH (C - G)	I RETAINAGE 8% labor up to 50% stored material only	
			PREVIOUS APPS. (D + E)	THIS PERIOD ((C x %) - D - F)					
3rd FLOOR - AREA A									
1	Electrical Equipment	Labor 5,000.00	4,950.00	0.00	0.00	4,950.00	99.00%	50.00 \$ 396.00	
2	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00 \$ -	
3	Conduit - Brch & Fd	Labor 20,000.00	19,600.00	0.00	0.00	19,600.00	98.00%	400.00 \$ 1,568.00	
4	"	Material	32,000.00	32,000.00	0.00	32,000.00	100.00%	0.00 \$ -	
5	Wire - Brch & Fdr	Labor 10,000.00	9,800.00	0.00	0.00	9,800.00	98.00%	200.00 \$ 784.00	
6	"	Material	48,000.00	48,000.00	0.00	48,000.00	100.00%	0.00 \$ -	
7	Light Fixtures	Labor 5,000.00	1,250.00	1,000.00	0.00	2,250.00	45.00%	2,750.00 \$ 180.00	
8	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00 \$ -	
9	Devices & Plates	Labor 1,500.00	0.00	0.00	0.00	0.00	0.00%	1,500.00 \$ -	
10	"	Material	8,000.00	0.00	7,600.00	7,600.00	95.00%	400.00 \$ -	
11			0.00	0.00	0.00	0.00	0.00%	0.00	
12			0.00	0.00	0.00	0.00	0.00%	0.00	
13			0.00	0.00	0.00	0.00	0.00%	0.00	
14	3rd FLOOR - AREA B								
15	Electrical Equipment	Labor 5,000.00	4,000.00	500.00	0.00	4,500.00	90.00%	500.00 \$ 360.00	
16	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00 \$ -	
17	Conduit - Brch & Fdr	Labor 25,000.00	17,500.00	2,500.00	0.00	20,000.00	80.00%	5,000.00 \$ 1,600.00	
18	"	Material	32,000.00	28,800.00	3,200.00	32,000.00	100.00%	0.00 \$ -	
19	Wire - Brch & Fdr	Labor 17,500.00	5,250.00	1,750.00	0.00	7,000.00	40.00%	10,500.00 \$ 560.00	
20	"	Material	48,000.00	14,400.00	33,600.00	48,000.00	100.00%	0.00 \$ -	
21	Light Fixtures	Labor 7,500.00	1,125.00	1,500.00	0.00	2,625.00	35.00%	4,875.00 \$ 210.00	
22	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00 \$ -	
23	Devices & Plates	Labor 2,000.00	0.00	0.00	0.00	0.00	0.00%	2,000.00 \$ -	
24	"	Material	8,000.00	0.00	7,600.00	7,600.00	95.00%	400.00 \$ -	
25			0.00	0.00	0.00	0.00	0.00%	0.00	
26			0.00	0.00	0.00	0.00	0.00%	0.00	
27			0.00	0.00	0.00	0.00	0.00%	0.00	
28	3rd FLOOR - AREA C								
29	Electrical Equipment	Labor 5,000.00	4,950.00	0.00	0.00	4,950.00	99.00%	50.00 \$ 396.00	
30	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00 \$ -	
31	Conduit - Brch & Fdr	Labor 30,000.00	29,400.00	0.00	0.00	29,400.00	98.00%	600.00 \$ 2,352.00	
32	"	Material	32,000.00	32,000.00	0.00	32,000.00	100.00%	0.00 \$ -	
33	Wire - Brch & Fdr	Labor 20,000.00	16,000.00	2,000.00	0.00	18,000.00	90.00%	2,000.00 \$ 1,440.00	
34	"	Material	48,000.00	43,200.00	4,800.00	48,000.00	100.00%	0.00 \$ -	
35	Light Fixtures	Labor 9,500.00	2,375.00	950.00	0.00	3,325.00	35.00%	6,175.00 \$ 266.00	
36	"	Material	0.00	0.00	0.00	0.00	0.00%	0.00 \$ -	
37	Devices & Plates	Labor 2,500.00	0.00	0.00	0.00	0.00	0.00%	2,500.00 \$ -	
38	"	Material	8,000.00	0.00	7,600.00	7,600.00	95.00%	400.00 \$ -	
39			0.00	0.00	0.00	0.00	0.00%	0.00	
40			0.00	0.00	0.00	0.00	0.00%	0.00	
41			0.00	0.00	0.00	0.00	0.00%	0.00	
42			0.00	0.00	0.00	0.00	0.00%	0.00	
43			0.00	0.00	0.00	0.00	0.00%	0.00	
44			0.00	0.00	0.00	0.00	0.00%	0.00	
45			0.00	0.00	0.00	0.00	0.00%	0.00	
46			0.00	0.00	0.00	0.00	0.00%	0.00	
47			0.00	0.00	0.00	0.00	0.00%	0.00	
48	SHEET LABOR SUBTOTAL		165,500.00	116,200.00	10,200.00	0.00	126,400.00	39,100.00 \$	10,112.00
49	SHEET MATERIAL SUBTOTAL		264,000.00	198,400.00	64,400.00	0.00	262,800.00	1,200.00 \$	0.00
50	SUBTOTAL		\$ 429,500.00	\$ 314,600.00	\$ 74,600.00	\$ -	\$ 389,200.00	4.91% \$ 40,300.00	\$ 10,112.00

CONTINUATION SHEET

APPLICATION NUMBER: **21** PERIOD TO: **6/30/09**

A ITEM NUMBER	B DESCRIPTION OF WORK		C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT in D or E)	G TOTAL COMPLETED & STORED TO DATE (D + E + F)	% (G + C)	H BALANCE TO FINISH (C - G)	I RETAINAGE 8% labor up to 50% stored material only	
				PREVIOUS APPS. (D + E)	THIS PERIOD ((C x %) - D - F)						
4th FLOOR - AREA A											
1	Electrical Equipment	Labor	2,500.00	2,375.00	0.00	0.00	2,375.00	95.00%	125.00	\$ 190.00	
2	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
3	Conduit - Brch & Fd	Labor	16,000.00	13,600.00	800.00	0.00	14,400.00	90.00%	1,600.00	\$ 1,152.00	
4	"	Material	24,000.00	24,000.00	0.00	0.00	24,000.00	100.00%	0.00	\$ -	
5	Wire - Brch & Fdr	Labor	12,000.00	7,800.00	1,200.00	0.00	9,000.00	75.00%	3,000.00	\$ 720.00	
6	"	Material	32,000.00	32,000.00	0.00	0.00	32,000.00	100.00%	0.00	\$ -	
7	Light Fixtures	Labor	3,000.00	300.00	450.00	0.00	750.00	25.00%	2,250.00	\$ 60.00	
8	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
9	Devices & Plates	Labor	1,500.00	0.00	1,425.00	0.00	1,425.00	95.00%	75.00	\$ 114.00	
10	"	Material	6,000.00	0.00	0.00	0.00	0.00	0.00%	6,000.00	\$ -	
11	"			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
12	4th FLOOR - AREA B										
13	Electrical Equipment	Labor	3,500.00	2,975.00	175.00	0.00	3,150.00	90.00%	350.00	\$ 252.00	
14	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
15	Conduit - Brch & Fdr	Labor	22,500.00	13,500.00	2,250.00	0.00	15,750.00	70.00%	6,750.00	\$ 1,260.00	
16	"	Material	24,000.00	14,400.00	9,600.00	0.00	24,000.00	100.00%	0.00	\$ -	
17	Wire - Brch & Fdr	Labor	15,000.00	3,000.00	4,500.00	0.00	7,500.00	50.00%	7,500.00	\$ 600.00	
18	"	Material	32,000.00	6,400.00	25,600.00	0.00	32,000.00	100.00%	0.00	\$ -	
19	Light Fixtures	Labor	3,500.00	525.00	350.00	0.00	875.00	25.00%	2,625.00	\$ 70.00	
20	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
21	Devices & Plates	Labor	2,500.00	0.00	0.00	0.00	0.00	0.00%	2,500.00	\$ -	
22	"	Material	6,000.00	0.00	0.00	0.00	0.00	0.00%	6,000.00	\$ -	
23	"			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
24	4th FLOOR - AREA C										
25	Electrical Equipment	Labor	4,000.00	3,800.00	0.00	0.00	3,800.00	95.00%	200.00	\$ 304.00	
26	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
27	Conduit - Brch & Fdr	Labor	25,500.00	21,675.00	1,275.00	0.00	22,950.00	90.00%	2,550.00	\$ 1,836.00	
28	"	Material	24,000.00	24,000.00	0.00	0.00	24,000.00	100.00%	0.00	\$ -	
29	Wire - Brch & Fdr	Labor	17,000.00	11,050.00	1,700.00	0.00	12,750.00	75.00%	4,250.00	\$ 1,020.00	
30	"	Material	32,000.00	32,000.00	0.00	0.00	32,000.00	100.00%	0.00	\$ -	
31	Light Fixtures	Labor	4,500.00	675.00	450.00	0.00	1,125.00	25.00%	3,375.00	\$ 90.00	
32	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
33	Devices & Plates	Labor	3,000.00	0.00	0.00	0.00	0.00	0.00%	3,000.00	\$ -	
34	"	Material	6,000.00	0.00	5,700.00	0.00	5,700.00	95.00%	300.00	\$ -	
35	"			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
36	Penthouse - AREA B & C										
37	Electrical Equipment	Labor	2,500.00	2,250.00	0.00	0.00	2,250.00	90.00%	250.00	\$ 180.00	
38	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
39	Conduit - Brch & Fd	Labor	17,000.00	16,150.00	0.00	0.00	16,150.00	95.00%	850.00	\$ 1,292.00	
40	"	Material	32,000.00	30,400.00	0.00	0.00	30,400.00	95.00%	1,600.00	\$ -	
41	Wire - Brch & Fdr	Labor	14,000.00	11,900.00	0.00	0.00	11,900.00	85.00%	2,100.00	\$ 952.00	
42	"	Material	48,000.00	40,800.00	0.00	0.00	40,800.00	85.00%	7,200.00	\$ -	
43	Light Fixtures	Labor	3,000.00	2,250.00	300.00	0.00	2,550.00	85.00%	450.00	\$ 204.00	
44	"	Material		0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
45	Devices & Plates	Labor	2,500.00	0.00	0.00	0.00	0.00	0.00%	2,500.00	\$ -	
46	"	Material	8,000.00	0.00	7,600.00	0.00	7,600.00	95.00%	400.00	\$ -	
47	"			0.00	0.00	0.00	0.00	0.00%	0.00	\$ -	
48	SHEET LABOR SUBTOTAL		175,000.00	113,825.00	14,875.00	0.00	128,700.00		46,300.00	10,296.00	
49	SHEET MATERIAL SUBTOTAL		274,000.00	204,000.00	48,500.00	0.00	252,500.00		21,500.00	0.00	
50	SUBTOTAL		\$ 449,000.00	\$ 317,825.00	\$ 63,375.00	\$ -	\$ 381,200.00	4.81%	\$ 67,800.00	\$ 10,296.00	

CONTINUATION SHEET

APPLICATION NUMBER: **21** PERIOD TO: **6/30/09**

A ITEM NUMBER	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT in D or E)	G TOTAL COMPLETED & STORED TO DATE (D + E + F)	H BALANCE TO FINISH (C - G)	I RETAINAGE 8% labor up to 50% stored material only		
			PREVIOUS APPS. (D + E)	THIS PERIOD ((C x %) - D - F)					%	
Equipment & Systems										
1	LIGHT FIXTURES (INCLUDING THEATERS)	Material	1,005,500.00	553,025.00	150,825.00	0.00	703,850.00	70.00%	301,650.00	\$ -
2	(labor bkdw on floors & areas)			0.00	0.00	0.00	0.00	0.00%	0.00	
3	SWGEAR / XFRMS / PANELS / TVSS / BUS	Material	753,000.00	753,000.00	0.00	0.00	753,000.00	100.00%	0.00	\$ -
4	(labor bkdw on floors & areas)			0.00	0.00	0.00	0.00	0.00%	0.00	
5	GENERATOR / ATS	Labor	15,000.00	14,250.00	0.00	0.00	14,250.00	95.00%	750.00	\$ 1,140.00
6	"	Material	86,000.00	86,000.00	0.00	0.00	86,000.00	100.00%	0.00	\$ -
7	FIRE ALARM	Labor	65,000.00	29,250.00	0.00	0.00	29,250.00	45.00%	35,750.00	\$ 2,340.00
8	"	Material	50,000.00	33,000.00	0.00	17,000.00	50,000.00	100.00%	0.00	\$ 1,360.00
9	CABLE TRAY	Labor	15,000.00	15,000.00	0.00	0.00	15,000.00	100.00%	0.00	\$ 1,200.00
10	"	Material	19,000.00	19,000.00	0.00	0.00	19,000.00	100.00%	0.00	\$ -
11	TECH ROUGH IN - 16050T (voice & data)	Labor	74,000.00	62,900.00	3,700.00	0.00	66,600.00	90.00%	7,400.00	\$ 5,328.00
12	"	Material	296,000.00	224,861.00	0.00	65,219.00	290,080.00	98.00%	5,920.00	\$ 5,217.52
11	AUDIO VISUAL SYSTEM - 16732	Labor	174,000.00	26,100.00	8,700.00	0.00	34,800.00	20.00%	139,200.00	\$ 2,784.00
12	"	Material	696,000.00	174,000.00	34,800.00	139,200.00	348,000.00	50.00%	348,000.00	\$ 11,136.00
13	CENTRAL SOUND - 16823	Labor	17,000.00	8,500.00	1,700.00	0.00	10,200.00	60.00%	6,800.00	\$ 816.00
14	"	Material	72,000.00	50,600.00	0.00	17,800.00	68,400.00	95.00%	3,600.00	\$ 1,424.00
15	SOUND FIELD SYSTEM - 16940T	Labor	29,000.00	4,350.00	2,900.00	0.00	7,250.00	25.00%	21,750.00	\$ 580.00
16	"	Material	119,000.00	17,850.00	11,900.00	29,750.00	59,500.00	50.00%	59,500.00	\$ 2,380.00
17	BROADBAND - 16951T	Labor	9,000.00	3,150.00	3,150.00	0.00	6,300.00	70.00%	2,700.00	\$ 504.00
18	"	Material	37,000.00	12,950.00	12,950.00	0.00	25,900.00	70.00%	11,100.00	\$ -
17	INTERGRATED AUDIO - 16953T	Labor	70,000.00	7,000.00	3,500.00	0.00	10,500.00	15.00%	59,500.00	\$ 840.00
18	"	Material	283,000.00	28,300.00	14,150.00	0.00	42,450.00	15.00%	240,550.00	\$ -
19	NETWORK ELEC - 16962T	Labor	27,000.00	540.00	0.00	0.00	540.00	2.00%	26,460.00	\$ 43.20
20	"	Material	111,000.00	2,220.00	0.00	0.00	2,220.00	2.00%	108,780.00	\$ -
21	SECURITY ACCESS CONTROL - 16610	Labor	11,000.00	9,350.00	0.00	0.00	9,350.00	85.00%	1,650.00	\$ 748.00
22	"	Material	47,000.00	43,300.00	0.00	3,700.00	47,000.00	100.00%	0.00	\$ 296.00
23	SECURITY INTRUSION DETECTION - 16611	Labor	8,000.00	6,800.00	0.00	0.00	6,800.00	85.00%	1,200.00	\$ 544.00
24	"	Material	32,000.00	20,000.00	0.00	12,000.00	32,000.00	100.00%	0.00	\$ 960.00
25	SECURITY - CCTV - 16640	Labor	33,000.00	28,050.00	0.00	0.00	28,050.00	85.00%	4,950.00	\$ 2,244.00
26	"	Material	133,000.00	95,000.00	0.00	38,000.00	133,000.00	100.00%	0.00	\$ 3,040.00
27	SCOREKEEPING BOARD - 16660	Labor	1,500.00	0.00	0.00	0.00	0.00	0.00%	1,500.00	\$ -
28	"	Material	7,000.00	0.00	0.00	0.00	0.00	0.00%	7,000.00	\$ -
29	GROUND LOOP	Labor	5,000.00	5,000.00	0.00	0.00	5,000.00	100.00%	0.00	\$ 400.00
30	"	Material	21,000.00	21,000.00	0.00	0.00	21,000.00	100.00%	0.00	\$ -
31	HOUSEKEEPING PADS	Labor	7,600.00	7,600.00	0.00	0.00	7,600.00	100.00%	0.00	\$ 608.00
32	"	Material	2,000.00	2,000.00	0.00	0.00	2,000.00	100.00%	0.00	\$ -
33	CO#001 & 006 - pco 026 x120 - security	Labor	4,000.00	3,400.00	200.00	0.00	3,600.00	90.00%	400.00	\$ 288.00
34	"	Material	19,149.00	16,276.65	957.45	0.00	17,234.10	90.00%	1,914.90	\$ -
35	CO#002 - pco 029 x122 - service yard	Labor	12,960.00	12,960.00	0.00	0.00	12,960.00	100.00%	0.00	\$ 1,036.80
36	"	Material	8,401.00	8,401.00	0.00	0.00	8,401.00	100.00%	0.00	\$ -
37	CO#003 - pco 056 x149 - kitchen	Labor	(789.00)	-789.00	0.00	0.00	-789.00	100.00%	0.00	\$ (63.12)
38	"	Material	(1,047.00)	-1,047.00	0.00	0.00	-1,047.00	100.00%	0.00	\$ -
39	CO#004 - pco 111 x205 - security	Labor	5,000.00	4,250.00	250.00	0.00	4,500.00	90.00%	500.00	\$ 360.00
40	"	Material	59,457.00	50,538.45	2,972.85	0.00	53,511.30	90.00%	5,945.70	\$ -
41	CO#005 - pco 025 x119 -feeders	Labor	25,879.00	25,879.00	0.00	0.00	25,879.00	100.00%	0.00	\$ 2,070.32
42	"	Material	9,837.00	9,837.00	0.00	0.00	9,837.00	100.00%	0.00	\$ -
43	CO#007 - pco 169 x260 - 300 seat lyntec brkrs	Labor	680.00	0.00	0.00	0.00	0.00	0.00%	680.00	\$ -
44	"	Material	260.00	0.00	0.00	260.00	260.00	100.00%	0.00	\$ 20.80
45	CO#008 - pco 170 x266 - type S3 fix curved w	Labor	1,114.00	0.00	0.00	0.00	0.00	0.00%	1,114.00	\$ -
46	"	Material	2,755.00	0.00	0.00	0.00	0.00	0.00%	2,755.00	\$ -
47	CO#009 - pco 158 x246 - Central Sound	Labor	18,759.00	18,759.00	0.00	0.00	18,759.00	100.00%	0.00	\$ 1,500.72
48	"	Material	28,478.00	28,478.00	0.00	0.00	28,478.00	100.00%	0.00	\$ -
49	"			0.00	0.00	0.00	0.00	0.00%	0.00	
50	SHEET LABOR SUBTOTAL		628,703.00	292,299.00	24,100.00	0.00	316,399.00		312,304.00	25,311.92
51	SHEET MATERIAL SUBTOTAL		3,896,790.00	2,248,590.10	228,555.30	322,929.00	2,800,074.40		1,096,715.60	25,834.32
52	SHEET SUBTOTAL		\$ 4,525,493.00	\$ 2,540,889.10	\$ 252,655.30	\$ 322,929.00	\$ 3,116,473.40	39.32%	\$ 1,409,019.60	\$ 51,146.24

CONTINUATION SHEET

APPLICATION NUMBER: **21** PERIOD TO: **6/30/09**

A ITEM NUMBER	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT in D or E)	G TOTAL COMPLETED & STORED TO DATE (D + E + F)	H BALANCE TO FINISH (C - G)	I RETAINAGE 8% labor up to 50% stored material only	
			PREVIOUS APPS. (D + E)	THIS PERIOD ((C x %) - D - F)					
1	CO#010 - pco 151 x12869 - tray convert to control	Labor 2,082.00	2,082.00	0.00	0.00	2,082.00	100.00%	0.00	\$ 166.56
2	"	Material 4,135.00	4,135.00	0.00	0.00	4,135.00	100.00%	0.00	-
3	CO#011 - pco 162 x14650 OT holiday masonn	Labor 5,985.00	5,985.00	0.00	0.00	5,985.00	100.00%	0.00	\$ 478.80
4	"	Material -	0.00	0.00	0.00	0.00	0.00%	0.00	-
5	CO#012 - pco 090 x183 - stair relay control	Labor 1,950.00	195.00	0.00	0.00	195.00	10.00%	1,755.00	\$ 15.60
6	"	Material 4,094.00	4,094.00	0.00	0.00	4,094.00	100.00%	0.00	-
7	CO#013 - pco 107 x200 - WF1X change light t	Labor 4,388.00	0.00	0.00	0.00	0.00	0.00%	4,388.00	-
8	"	Material 12,502.00	0.00	0.00	0.00	0.00	0.00%	12,502.00	-
7	CO#014 - pco 142 x250 - wtr meter pit light	Labor 419.00	0.00	209.50	0.00	209.50	50.00%	209.50	\$ 16.76
8	"	Material 987.00	0.00	493.50	0.00	493.50	50.00%	493.50	-
9	CO#015 - pco 269 x176 - technology sleeves	Labor 4,908.00	4,908.00	0.00	0.00	4,908.00	100.00%	0.00	\$ 392.64
10	"	Material 10,021.00	10,021.00	0.00	0.00	10,021.00	100.00%	0.00	-
11	CO#016 - pco 189 x261 - dark room electric ro	Labor 6,400.00	6,400.00	0.00	0.00	6,400.00	100.00%	0.00	\$ 512.00
12	"	Material 8,550.00	8,550.00	0.00	0.00	8,550.00	100.00%	0.00	-
13	CO#017 - pco 188 - x265 - Move Sound Trans	Labor 14,850.00	0.00	13,365.00	0.00	13,365.00	90.00%	1,485.00	\$ 1,069.20
14	"	Material 15,424.00	0.00	13,881.60	0.00	13,881.60	90.00%	1,542.40	-
13	CO#018 - pco 168 - x271 - Add Mic & Intercon	Labor 7,605.00	0.00	0.00	0.00	0.00	0.00%	7,605.00	-
14	"	Material 5,502.00	0.00	0.00	0.00	0.00	0.00%	5,502.00	-
15	CO#019 - pco 164 - x262 - Vol Cntl Override	Labor 7,433.00	0.00	3,716.50	0.00	3,716.50	50.00%	3,716.50	\$ 297.32
16	"	Material 5,250.00	0.00	2,625.00	0.00	2,625.00	50.00%	2,625.00	-
17	CO#020 - pco 190 - x274 - Security Monitors	Labor 358.00	0.00	0.00	0.00	0.00	0.00%	358.00	-
18	"	Material 9,439.00	0.00	0.00	0.00	0.00	0.00%	9,439.00	-
19	CO#021 - pco 116 - x211 - Welder Down Draft	Labor 2,439.00	0.00	609.75	0.00	609.75	25.00%	1,829.25	\$ 48.78
20	"	Material 1,741.00	0.00	435.25	0.00	435.25	25.00%	1,305.75	-
21	CO#022 & 033 - pco 194 - x284 Move Co.Sw	Labor 2,087.00	0.00	2,087.00	0.00	2,087.00	100.00%	0.00	\$ 166.96
22	"	Material 2,318.00	0.00	2,318.00	0.00	2,318.00	100.00%	0.00	-
23	CO#023 - pco 172 - x289 - Elev#1 Emg Ccts	Labor 4,352.00	0.00	1,088.00	0.00	1,088.00	25.00%	3,264.00	\$ 87.04
24	"	Material 2,471.00	0.00	617.75	0.00	617.75	25.00%	1,853.25	-
25	CO#024 - pco 183 - x275 Dye Exh Fan	Labor 1,665.00	0.00	0.00	0.00	0.00	0.00%	1,665.00	-
26	"	Material 1,089.00	0.00	0.00	0.00	0.00	0.00%	1,089.00	-
27	CO#025 - pco 185 - x276 Move Backbrd power	Labor 639.00	0.00	639.00	0.00	639.00	100.00%	0.00	\$ 51.12
28	"	Material 114.00	0.00	114.00	0.00	114.00	100.00%	0.00	-
29	CO#026 - pco - x	Labor 0.00	0.00	0.00	0.00	0.00	0.00%	0.00	-
30	"	Material 0.00	0.00	0.00	0.00	0.00	0.00%	0.00	-
31	CO#027 - pco 196 - x283 Rigging Cntl Recpt	Labor 1,160.00	0.00	580.00	0.00	580.00	50.00%	580.00	\$ 46.40
32	"	Material 700.00	0.00	350.00	0.00	350.00	50.00%	350.00	-
33	CO#028 - pco 197 - x285 Lyntec pnl feeder	Labor 695.00	0.00	0.00	0.00	0.00	0.00%	695.00	-
34	"	Material 791.00	0.00	0.00	0.00	0.00	0.00%	791.00	-
35	CO#029 - pco 198 - x287 AHU light/sw/recpt	Labor 2,680.00	0.00	0.00	0.00	0.00	0.00%	2,680.00	-
36	"	Material 1,093.00	0.00	0.00	0.00	0.00	0.00%	1,093.00	-
37	CO#030 - pco 199 - x288 Roof Maint recpt & lt	Labor 813.00	0.00	0.00	0.00	0.00	0.00%	813.00	-
38	"	Material 508.00	0.00	0.00	0.00	0.00	0.00%	508.00	-
39	CO#031 - pco 200 - x290 Dust Collector pwr	Labor 1,892.00	0.00	0.00	0.00	0.00	0.00%	1,892.00	-
40	"	Material 2,685.00	0.00	0.00	0.00	0.00	0.00%	2,685.00	-
41	CO#032 - pco 195 - x286 AHU Duct Smk Det	Labor 6,201.00	0.00	0.00	0.00	0.00	0.00%	6,201.00	-
42	"	Material 8,376.00	0.00	0.00	0.00	0.00	0.00%	8,376.00	-
43	"	Labor 0.00	0.00	0.00	0.00	0.00	0.00%	0.00	-
44	"	Material 0.00	0.00	0.00	0.00	0.00	0.00%	0.00	-
45	"	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	-
46	SHEET LABOR SUBTOTAL	81,001.00	19,570.00	22,294.75	0.00	41,864.75		39,136.25	3,349.18
47	SHEET MATERIAL SUBTOTAL	97,790.00	26,800.00	20,835.10	0.00	47,635.10		50,154.90	0.00
48	SHEET SUBTOTAL	\$ 178,791.00	\$ 46,370.00	\$ 43,129.85	\$ -	\$ 89,499.85	1.13%	\$ 89,291.15	\$ 3,349.18

53	JOB TOTAL LABOR	2,085,604.00	1,275,699.00	105,965.25	-	1,381,664.25	17.43%	703,939.75	83,424.16
54	JOB TOTAL MATERIAL	5,840,580.00	3,679,169.10	473,025.90	322,929.00	4,475,124.00	56.46%	1,365,456.00	25,834.32
55	TOTAL	\$ 7,926,184.00	\$ 4,954,868.10	\$ 578,991.15	\$ 322,929.00	\$ 5,856,788.25	73.89%	\$ 2,069,395.75	\$ 109,258.48

OK, WTH.

School for Creative & Performing Arts
 108 W. Central Parkway
 Cincinnati, Ohio 45202

Received
6/24/09

Contractor's Name: **BEACON ELECTRIC COMPANY**
 Address: 7815 REDSKY DRIVE, CINCINNATI, OHIO 45249

Date: 06/22/09
 Application No. 21

Contractor Pay Application Summary

Project Name: **School for Creative and Performing Arts**
 Bid Package No. **BP6 - Electrical & Technology**

1	Original Contract Amount		\$ 7,552,500.00
2	Net Changes to Date		\$ 373,684.00
3	Current Contract Amount		\$ 7,926,184.00
4	Labor Completed to Date		\$ 1,381,664.25
5	Material Completed to Date		\$ 4,475,124.00
6	Total Work Completed to Date		\$ 5,856,788.25
7	Store Material to Date	\$ 322,929.00	
8	Less Retained to Date		\$ 109,258.48
9	Total Amount Due		\$ 5,747,529.77
10	Less Previous Payments		\$ 5,011,576.58
11	Less Amount Retained to Cover Lien		\$ -
12	Less Amount Retained for Liquidated Damages		\$ -
13	Less Other Amounts Withheld		\$ -
14	Current Due		\$ 735,953.19
15	Balance to Complete		\$ 2,178,654.23

OK, WTH.

OSFC approval required for the following contract adjustments:

1. Assessment of liquidated damages
2. Other amounts withheld

Ohio School Facilities Commission _____ Date _____

Comments:

APPLICATION AND CERTIFICATE FOR PAYMENT

TO OWNER: Cincinnati Public Schools
2315 Iowa Avenue
Cincinnati, OH 45206

PROJECT: School for Creative and Performing Arts
108 West Central Parkway
Cincinnati, OH 45202

APPLICATION No: 28.00
PERIOD TO: 12/31/09
PROJECT NOS:
CONTRACT DATE:

FROM CONTRACTOR: TP Mechanical Contractors
1500 Kemper Meadow Drive
Cincinnati, OH 45240

VIA ARCHITECT: Cole Russell + Fanning Howey + Moody Nolan
537 Pete Rose Way, Suite 200
Cincinnati, OH 45202



Cynthia A. Federle
Notary Public, State of Ohio
My Commission Expires 04-05-2014
Cynthia Federle

CONTRACT FOR:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment as shown below, in connection with the Contract
Continuation sheet is attached.

The Contractor certified that the work covered by this pay request has been completed in accordance with the Contract Documents and that all progress payments previously paid by the State have been applied by the Contractor to discharge in full all of Contractor's obligations incurred in connection with the work covered by all prior pay requests.

1. ORIGINAL CONTRACT SUM.....\$	5511777.00
2. Net Change by Change Orders.....\$	92584.67
3. CONTRACT SUM TO DATE.....\$	5604361.67
4. TOTAL COMPLETED & STORED TO DATE.....\$	5517417.30
5. RETAINAGE	
a. 8-50% of Completed Labor.....\$	170328.77
b. 8% of Stored Material.....\$	
Total Retainage.....\$	170328.77
6. TOTAL EARNED LESS RETAINAGE.....\$	5347088.53
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT.....\$	5327055.77
8. CURRENT PAYMENT DUE..... \$	20032.76
9. BALANCE TO FINISH, INCLUDING RETAINAGE.....\$	257273.14

[Signature] Contractor 12/09/2009 Date

Based upon on-site observations, the firm affirms that the work has progressed to the percentage of completeness indicated on the pay request.

[Signature] Architect 12/17/09 Date

William T. Hulser Construction Manager 12/10/09 Date

Change Order/Contract	ADDITIONS	DEDUCTIONS
Total Changes approved in Previous months by Owner	92584.67	
Total approved this month		
TOTALS	92584.67	
NET CHANGES by Change Order	92584.67	

Approved:

School District Treasurer _____
Date

CONTINUATION SHEET

ITEM NUMBER	DESCRIPTION OF WORK		SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED	TOTAL COMPLETED & STORED TO DATE	%	BALANCE TO FINISH	RETAINAGE
				PREVIOUS APPS.	THIS PERIOD					
	PLUMBING SUBMITTALS	L	20,000.00	20,000.00	0.00	0.00	20,000.00	100.00%	0.00	1,600.00
	HVAC SUBMITTALS	L	20,000.00	20,000.00	0.00	0.00	20,000.00	100.00%	0.00	0.00
	PERMITS / TESTS	L	25,000.00	25,000.00	0.00	0.00	25,000.00	100.00%	0.00	2,000.00
	BONDS INSURANCE / HAZCOM / SAFETY	M	90,000.00	90,000.00	0.00	0.00	90,000.00	100.00%	0.00	0.00
	MOBILIZATION	L	36,000.00	36,000.00	0.00	0.00	36,000.00	100.00%	0.00	2,880.00
	DEMOBILIZATION	L	15,000.00	13,000.00	500.00	0.00	13,500.00	90.00%	1,500.00	0.00
	PROJECT MANAGER	L	138,900.00	138,360.00	200.00	0.00	138,560.00	99.76%	340.00	11,084.80
	PLUMBING SUPERINTENDENT	L	85,000.00	84,600.00	200.00	0.00	84,800.00	99.76%	200.00	0.00
	HVAC SUPERINTENDENT	L	130,000.00	129,600.00	200.00	0.00	129,800.00	99.85%	200.00	10,384.00
	CAD/COORDINATION DRAWINGS	L	94,696.00	94,696.00	0.00	0.00	94,696.00	100.00%	0.00	0.00
	WARRANTY	L	8,759.28	4,000.00	1,000.00	0.00	5,000.00	57.08%	3,759.28	400.00
	FIELD OPERATIONS	L	18,486.60	18,486.60	0.00	0.00	18,486.60	35.00%	0.00	0.00
	CONTRACT ALLOWANCE	M	75,000.00	12,372.00	12,271.00	0.00	24,643.00	32.86%	50,357.00	1,971.44
	DAILY CLEAN-UP	L	55,117.77	54,579.67	300.00	0.00	54,879.67	99.57%	238.10	0.00
	CLOSE OUT	L	50,000.00	49,500.00	200.00	0.00	49,700.00	99.40%	300.00	3,976.00
	PROJECT MEETINGS	L	27,500.00	27,325.00	75.00	0.00	27,400.00	99.64%	100.00	0.00
	PUNCHLIST	L	50,000.00	46,000.00	2,000.00	0.00	48,000.00	96.00%	2,000.00	3,840.00
	STARTUP & COMMISSIONING	L	22,565.00	22,200.00	265.00	0.00	22,465.00	99.56%	100.00	0.00
	TEMPERARY OFFICE AIR CONDITIONERS	L	3,800.00	3,800.00	0.00	0.00	3,800.00	100.00%	0.00	304.00
	TEMPERARY OFFICE AIR CONDITIONERS	M	14,000.00	14,000.00	0.00	0.00	14,000.00	100.00%	0.00	0.00
	UNDERGROUND ACID WASTE	L	10,657.00	10,657.00	0.00	0.00	10,657.00	100.00%	0.00	852.56
	UNDERGROUND ACID WASTE	M	22,819.00	22,819.00	0.00	0.00	22,819.00	100.00%	0.00	0.00
	BASEMENT ACID WASTE	L	2,660.00	2,660.00	0.00	0.00	2,660.00	100.00%	0.00	212.80
	BASEMENT ACID WASTE	M	13,832.00	13,832.00	0.00	0.00	13,832.00	100.00%	0.00	0.00
	LEVEL 1 ACID WASTE	L	4,935.00	4,935.00	0.00	0.00	4,935.00	100.00%	0.00	394.80
	LEVEL 1 ACID WASTE	M	25,662.00	25,662.00	0.00	0.00	25,662.00	100.00%	0.00	0.00
	LEVEL 2 ACID WASTE	L	8,995.00	8,995.00	0.00	0.00	8,995.00	100.00%	0.00	719.60
	LEVEL 2 ACID WASTE	M	46,774.00	46,774.00	0.00	0.00	46,774.00	100.00%	0.00	0.00
	LEVEL 3 ACID WASTE	L	12,635.00	12,635.00	0.00	0.00	12,635.00	100.00%	0.00	1,010.80
	LEVEL 3 ACID WASTE	M	65,702.00	65,702.00	0.00	0.00	65,702.00	100.00%	0.00	0.00
	LEVEL 4 ACID WASTE	L	8,505.00	8,505.00	0.00	0.00	8,505.00	100.00%	0.00	680.40
	LEVEL 4 ACID WASTE	M	44,226.00	44,226.00	0.00	0.00	44,226.00	100.00%	0.00	0.00
	PENTHOUSE ACID WASTE	L	350.00	350.00	0.00	0.00	350.00	100.00%	0.00	28.00
	PENTHOUSE ACID WASTE	M	1,820.00	1,820.00	0.00	0.00	1,820.00	100.00%	0.00	0.00
	UNDERGROUND SANITARY WASTE	L	26,350.00	26,350.00	0.00	0.00	26,350.00	100.00%	0.00	2,108.00
	UNDERGROUND SANITARY WASTE	M	37,285.00	37,285.00	0.00	0.00	37,285.00	100.00%	0.00	0.00
	BASEMENT SANITARY WASTE	L	19,728.00	19,728.00	0.00	0.00	19,728.00	100.00%	0.00	1,578.24
	BASEMENT SANITARY WASTE	M	19,728.00	19,728.00	0.00	0.00	19,728.00	100.00%	0.00	0.00
	LEVEL 1 SANITARY WASTE	L	25,380.00	25,380.00	0.00	0.00	25,380.00	100.00%	0.00	2,030.40
	LEVEL 1 SANITARY WASTE	M	25,380.00	25,380.00	0.00	0.00	25,380.00	100.00%	0.00	0.00
	LEVEL 2 SANITARY WASTE	L	28,296.00	28,296.00	0.00	0.00	28,296.00	100.00%	0.00	2,263.68
	LEVEL 2 SANITARY WASTE	M	28,296.00	28,296.00	0.00	0.00	28,296.00	100.00%	0.00	0.00
	LEVEL 3 SANITARY WASTE	L	12,528.00	12,528.00	0.00	0.00	12,528.00	100.00%	0.00	1,002.24
	LEVEL 3 SANITARY WASTE	M	12,528.00	12,528.00	0.00	0.00	12,528.00	100.00%	0.00	0.00
	LEVEL 4 SANITARY WASTE	L	11,412.00	11,412.00	0.00	0.00	11,412.00	100.00%	0.00	912.96
	LEVEL 4 SANITARY WASTE	M	11,412.00	11,412.00	0.00	0.00	11,412.00	100.00%	0.00	0.00
	PENTHOUSE SANITARY WASTE	L	1,188.00	1,188.00	0.00	0.00	1,188.00	100.00%	0.00	95.04
	PENTHOUSE SANITARY WASTE	M	1,188.00	1,188.00	0.00	0.00	1,188.00	100.00%	0.00	0.00
	UNDERGROUND STORM	L	18,215.00	18,215.00	0.00	0.00	18,215.00	100.00%	0.00	1,457.20
	UNDERGROUND STORM	M	15,500.00	15,500.00	0.00	0.00	15,500.00	100.00%	0.00	0.00
	BASEMENT STORM	L	6,144.60	6,144.60	0.00	0.00	6,144.60	100.00%	0.00	491.57
	BASEMENT STORM	M	8,256.00	8,256.00	0.00	0.00	8,256.00	100.00%	0.00	0.00
	LEVEL 1 STORM	L	14,574.00	14,574.00	0.00	0.00	14,574.00	100.00%	0.00	1,165.92
	LEVEL 1 STORM	M	26,372.00	26,372.00	0.00	0.00	26,372.00	100.00%	0.00	0.00
	LEVEL 2 STORM	L	4,242.00	4,242.00	0.00	0.00	4,242.00	100.00%	0.00	339.36
	LEVEL 2 STORM	M	7,680.00	7,680.00	0.00	0.00	7,680.00	100.00%	0.00	0.00
	LEVEL 3 STORM	L	3,444.00	3,444.00	0.00	0.00	3,444.00	100.00%	0.00	275.52
	LEVEL 3 STORM	M	6,232.00	6,232.00	0.00	0.00	6,232.00	100.00%	0.00	0.00
	LEVEL 4 STORM	L	14,448.00	14,448.00	0.00	0.00	14,448.00	100.00%	0.00	1,155.84
	LEVEL 4 STORM	M	26,980.00	26,980.00	0.00	0.00	26,980.00	100.00%	0.00	0.00
	PENTHOUSE STORM	L	2,478.00	2,478.00	0.00	0.00	2,478.00	100.00%	0.00	198.24
	PENTHOUSE STORM	M	4,484.00	4,484.00	0.00	0.00	4,484.00	100.00%	0.00	0.00
00400-J	LEVEL 1 COMPRESSED AIR	L	4,108.00	4,108.00	0.00	0.00	4,108.00	100.00%	0.00	328.64
	LEVEL 1 COMPRESSED AIR	M	3,081.00	3,081.00	0.00	0.00	3,081.00	100.00%	0.00	0.00
	LEVEL 2 COMPRESSED AIR	L	1,040.00	1,040.00	0.00	0.00	1,040.00	100.00%	0.00	83.20

LEVEL 2 COMPRESSED AIR	M	780.00	780.00	0.00	0.00	780.00	100.00%	0.00	0.00
LEVEL 3 COMPRESSED AIR	L	8,684.00	8,684.00	0.00	0.00	8,684.00	100.00%	0.00	694.72
LEVEL 3 COMPRESSED AIR	M	6,513.00	6,513.00	0.00	0.00	6,513.00	100.00%	0.00	0.00
LEVEL 4 COMPRESSED AIR	L	1,794.00	1,794.00	0.00	0.00	1,794.00	100.00%	0.00	143.52
LEVEL 4 COMPRESSED AIR	M	1,345.50	1,345.50	0.00	0.00	1,345.50	100.00%	0.00	0.00
PENTHOUSE COMPRESSED AIR	L	569.40	569.40	0.00	0.00	569.40	100.00%	0.00	45.55
PENTHOUSE COMPRESSED AIR	M	427.00	427.00	0.00	0.00	427.00	100.00%	0.00	0.00
PENTHOUSE CHILLED WATER	L	40,037.51	40,037.51	0.00	0.00	40,037.51	100.00%	(0.00)	3,203.00
PENTHOUSE CHILLED WATER	M	46,221.86	46,221.86	0.00	0.00	46,221.86	100.00%	0.00	0.00
BASEMENT CONDENSATE DRAINS	L	1,477.00	1,477.00	0.00	0.00	1,477.00	100.00%	0.00	118.16
BASEMENT CONDENSATE DRAINS	M	884.00	884.00	0.00	0.00	884.00	100.00%	0.00	0.00
LEVEL 1 CONDENSATE DRAINS	L	619.00	619.00	0.00	0.00	619.00	100.00%	0.00	49.52
LEVEL 1 CONDENSATE DRAINS	M	371.00	371.00	0.00	0.00	371.00	100.00%	0.00	0.00
LEVEL 2 CONDENSATE DRAINS	L	455.00	455.00	0.00	0.00	455.00	100.00%	0.00	36.40
LEVEL 2 CONDENSATE DRAINS	M	275.00	275.00	0.00	0.00	275.00	100.00%	0.00	0.00
PENTHOUSE CONDENSATE DRAINS	L	1,236.00	1,236.00	0.00	0.00	1,236.00	100.00%	0.00	98.88
PENTHOUSE CONDENSATE DRAINS	M	741.00	741.00	0.00	0.00	741.00	100.00%	0.00	0.00
PENTHOUSE CONDENSER WATER	L	25,763.37	25,763.37	0.00	0.00	25,763.37	100.00%	(0.00)	2,061.07
PENTHOUSE CONDENSER WATER	M	32,895.07	32,895.07	0.00	0.00	32,895.07	100.00%	0.00	0.00
BASEMENT HEATING HOT WATER	L	22,134.00	22,134.00	0.00	0.00	22,134.00	100.00%	0.00	1,770.72
BASEMENT HEATING HOT WATER	M	22,623.00	22,623.00	0.00	0.00	22,623.00	100.00%	0.00	0.00
LEVEL 1 HEATING HOT WATER	L	30,834.00	30,834.00	0.00	0.00	30,834.00	100.00%	0.00	2,466.72
LEVEL 1 HEATING HOT WATER	M	31,516.00	31,516.00	0.00	0.00	31,516.00	100.00%	0.00	0.00
LEVEL 2 HEATING HOT WATER	L	18,665.00	18,665.00	0.00	0.00	18,665.00	100.00%	0.00	1,493.20
LEVEL 2 HEATING HOT WATER	M	19,078.00	19,078.00	0.00	0.00	19,078.00	100.00%	0.00	0.00
LEVEL 3 HEATING HOT WATER	L	14,668.00	14,668.00	0.00	0.00	14,668.00	100.00%	0.00	1,173.44
LEVEL 3 HEATING HOT WATER	M	14,992.50	14,992.50	0.00	0.00	14,992.50	100.00%	0.00	0.00
LEVEL 4 HEATING HOT WATER	L	15,417.00	15,417.00	0.00	0.00	15,417.00	100.00%	0.00	1,233.36
LEVEL 4 HEATING HOT WATER	M	15,758.00	15,758.00	0.00	0.00	15,758.00	100.00%	0.00	0.00
PENTHOUSE HEATING HOT WATER	L	21,010.00	21,010.00	0.00	0.00	21,010.00	100.00%	0.00	1,680.80
PENTHOUSE HEATING HOT WATER	M	21,475.00	21,475.00	0.00	0.00	21,475.00	100.00%	0.00	0.00
BASEMENT DOMESTIC WATER	L	32,080.00	32,080.00	0.00	0.00	32,080.00	100.00%	0.00	2,566.40
BASEMENT DOMESTIC WATER	M	56,115.00	56,115.00	0.00	0.00	56,115.00	100.00%	0.00	0.00
LEVEL 1 DOMESTIC WATER	L	31,421.00	31,421.00	0.00	0.00	31,421.00	100.00%	0.00	2,513.68
LEVEL 1 DOMESTIC WATER	M	44,500.00	44,500.00	0.00	0.00	44,500.00	100.00%	0.00	0.00
LEVEL 2 DOMESTIC WATER	L	14,208.00	14,208.00	0.00	0.00	14,208.00	100.00%	0.00	1,136.64
LEVEL 2 DOMESTIC WATER	M	22,225.00	22,225.00	0.00	0.00	22,225.00	100.00%	0.00	0.00
LEVEL 3 DOMESTIC WATER	L	35,964.00	35,964.00	0.00	0.00	35,964.00	100.00%	0.00	2,877.12
LEVEL 3 DOMESTIC WATER	M	43,740.00	43,740.00	0.00	0.00	43,740.00	100.00%	0.00	0.00
LEVEL 4 DOMESTIC WATER	L	5,328.00	5,328.00	0.00	0.00	5,328.00	100.00%	0.00	426.24
LEVEL 4 DOMESTIC WATER	M	6,480.00	6,480.00	0.00	0.00	6,480.00	100.00%	0.00	0.00
PENTHOUSE DOMESTIC WATER	L	6,290.00	6,290.00	0.00	0.00	6,290.00	100.00%	0.00	503.20
PENTHOUSE DOMESTIC WATER	M	7,605.00	7,605.00	0.00	0.00	7,605.00	100.00%	0.00	0.00
BASEMENT NATURAL GAS	L	13,830.00	13,830.00	0.00	0.00	13,830.00	100.00%	0.00	1,106.40
BASEMENT NATURAL GAS	M	12,245.00	12,245.00	0.00	0.00	12,245.00	100.00%	0.00	0.00
LEVEL 1 NATURAL GAS	L	8,080.00	8,080.00	0.00	0.00	8,080.00	100.00%	0.00	646.40
LEVEL 1 NATURAL GAS	M	9,995.00	9,995.00	0.00	0.00	9,995.00	100.00%	0.00	0.00
LEVEL 2 NATURAL GAS	L	5,920.00	5,920.00	0.00	0.00	5,920.00	100.00%	0.00	473.60
LEVEL 2 NATURAL GAS	M	6,797.00	6,797.00	0.00	0.00	6,797.00	100.00%	0.00	0.00
LEVEL 3 NATURAL GAS	L	5,920.00	5,920.00	0.00	0.00	5,920.00	100.00%	0.00	473.60
LEVEL 3 NATURAL GAS	M	6,797.00	6,797.00	0.00	0.00	6,797.00	100.00%	0.00	0.00
LEVEL 4 NATURAL GAS	L	4,240.00	4,240.00	0.00	0.00	4,240.00	100.00%	0.00	339.20
LEVEL 4 NATURAL GAS	M	3,336.00	3,336.00	0.00	0.00	3,336.00	100.00%	0.00	0.00
PENTHOUSE NATURAL GAS	L	9,520.00	9,520.00	0.00	0.00	9,520.00	100.00%	0.00	761.60
PENTHOUSE NATURAL GAS	M	8,495.00	8,495.00	0.00	0.00	8,495.00	100.00%	0.00	0.00
REFRIGERATION PIPING	L	4,768.00	4,768.00	0.00	0.00	4,768.00	100.00%	0.00	381.44
REFRIGERATION PIPING	M	3,268.00	3,268.00	0.00	0.00	3,268.00	100.00%	0.00	0.00
BASEMENT DUCTWORK	L	54,563.00	54,563.00	0.00	0.00	54,563.00	100.00%	0.00	4,365.04
BASEMENT DUCTWORK	M	98,000.00	98,000.00	0.00	0.00	98,000.00	100.00%	0.00	0.00
LEVEL 1 DUCTWORK	L	43,979.30	43,979.30	0.00	0.00	43,979.30	100.00%	0.00	3,518.34
LEVEL 1 DUCTWORK	M	84,000.00	84,000.00	0.00	0.00	84,000.00	100.00%	0.00	0.00
LEVEL 2 DUCTWORK	L	36,176.00	36,176.00	0.00	0.00	36,176.00	100.00%	0.00	2,894.08
LEVEL 2 DUCTWORK	M	73,000.00	73,000.00	0.00	0.00	73,000.00	100.00%	0.00	0.00
LEVEL 3 DUCTWORK	L	33,364.00	33,364.00	0.00	0.00	33,364.00	100.00%	0.00	2,669.12
LEVEL 3 DUCTWORK	M	80,200.00	80,200.00	0.00	0.00	80,200.00	100.00%	0.00	0.00
LEVEL 4 DUCTWORK	L	22,306.00	22,306.00	0.00	0.00	22,306.00	100.00%	0.00	1,784.48
LEVEL 4 DUCTWORK	M	45,220.00	45,220.00	0.00	0.00	45,220.00	100.00%	0.00	0.00
PENTHOUSE DUCTWORK	L	35,207.00	35,207.00	0.00	0.00	35,207.00	100.00%	0.00	2,816.56
PENTHOUSE DUCTWORK	M	55,591.00	55,591.00	0.00	0.00	55,591.00	100.00%	0.00	0.00
AIR SIDE EQUIPMENT	L	49,894.06	49,894.06	0.00	0.00	49,894.06	100.00%	(0.00)	3,991.52

AIR SIDE EQUIPMENT	M	56,530.95	56,530.95	0.00	0.00	56,530.95	100.00%	0.00	0.00
DAMPERS & ACCESSORIES	L	3,857.06	3,857.06	0.00	0.00	3,857.06	100.00%	(0.00)	308.56
DAMPERS & ACCESSORIES	M	5,650.56	5,650.56	0.00	0.00	5,650.56	100.00%	0.00	0.00
SLEEVES, CORING & CAULKING	L	13,901.53	13,901.53	0.00	0.00	13,901.53	100.00%	(0.00)	1,112.12
SLEEVES, CORING & CAULKING	M	31,500.00	31,500.00	0.00	0.00	31,500.00	100.00%	0.00	0.00
EQUIPMENT PADS	L	9,500.00	9,500.00	0.00	0.00	9,500.00	100.00%	0.00	760.00
EQUIPMENT PADS	M	21,609.00	21,609.00	0.00	0.00	21,609.00	100.00%	0.00	0.00
PIPE IDENTIFICATION	L	1,761.00	1,761.00	0.00	0.00	1,761.00	100.00%	0.00	140.88
PIPE IDENTIFICATION	M	1,726.00	1,726.00	0.00	0.00	1,726.00	100.00%	0.00	0.00
PLUMBING EQUIPMENT	L	26,890.00	26,890.00	0.00	0.00	26,890.00	100.00%	0.00	2,151.20
PLUMBING EQUIPMENT	M	85,000.00	85,000.00	0.00	0.00	85,000.00	100.00%	0.00	0.00
EXCAVATION	L	21,104.09	21,104.09	0.00	0.00	21,104.09	100.00%	0.00	1,688.33
EXCAVATION	M	24,112.80	24,112.80	0.00	0.00	24,112.80	100.00%	0.00	0.00
PLUMBING FIXTURES	L	41,102.00	40,700.00	202.00	0.00	40,902.00	99.51%	200.00	3,272.16
PLUMBING FIXTURES	M	100,720.00	100,720.00	0.00	0.00	100,720.00	100.00%	0.00	0.00
DRAINAGE FIXTURES	L	56,538.00	56,538.00	0.00	0.00	56,538.00	100.00%	0.00	4,523.04
DRAINAGE FIXTURES	M	75,459.00	75,459.00	0.00	0.00	75,459.00	100.00%	0.00	0.00
BOILERS	L	18,000.00	18,000.00	0.00	0.00	18,000.00	100.00%	0.00	1,440.00
BOILERS	M	115,000.00	115,000.00	0.00	0.00	115,000.00	100.00%	0.00	0.00
CHILLERS	L	17,500.00	17,500.00	0.00	0.00	17,500.00	100.00%	0.00	1,400.00
CHILLERS	M	192,000.00	192,000.00	0.00	0.00	192,000.00	100.00%	0.00	0.00
COOLING TOWERS	L	21,000.00	21,000.00	0.00	0.00	21,000.00	100.00%	0.00	1,680.00
COOLING TOWERS	M	109,100.00	109,100.00	0.00	0.00	109,100.00	100.00%	0.00	0.00
HVAC PUMPS	L	27,231.00	27,231.00	0.00	0.00	27,231.00	100.00%	0.00	2,178.48
HVAC PUMPS	M	60,000.00	60,000.00	0.00	0.00	60,000.00	100.00%	0.00	0.00
HVAC TERMINAL UNITS	L	22,000.00	22,000.00	0.00	0.00	22,000.00	100.00%	0.00	1,760.00
HVAC TERMINAL UNITS	M	23,000.00	23,000.00	0.00	0.00	23,000.00	100.00%	0.00	0.00
AIR HANDLING UNITS	L	22,900.00	22,900.00	0.00	0.00	22,900.00	100.00%	0.00	1,832.00
AIR HANDLING UNITS	M	310,000.00	310,000.00	0.00	0.00	310,000.00	100.00%	0.00	0.00
VARIABLE FREQUENCY DRIVES	L	8,000.00	8,000.00	0.00	0.00	8,000.00	100.00%	0.00	640.00
VARIABLE FREQUENCY DRIVES	M	75,989.00	75,989.00	0.00	0.00	75,989.00	100.00%	0.00	0.00
SUB TEMPERATURE CONTROL	S	357,000.00	354,520.00	1,480.00	0.00	356,000.00	99.72%	1,000.00	28,480.00
SUB INSULATION	S	286,314.00	285,610.00	704.00	0.00	286,314.00	100.00%	0.00	0.00
SUB BALANCING	S	34,650.00	6,000.00	2,000.00	0.00	8,000.00	23.09%	26,650.00	640.00
SUB CORING & SAWING	S	8,158.50	8,158.50	0.00	0.00	8,158.50	100.00%	0.00	0.00
SUB WATER TREATMENT	S	9,671.70	9,671.70	0.00	0.00	9,671.70	100.00%	0.00	773.74
CHANGE ORDERS									
NO. 1	L	54,757.00	54,757.00	0.00	0.00	54,757.00	100.00%	0.00	4,380.56
NO. 1	M	15,457.00	15,457.00	0.00	0.00	15,457.00	100.00%	0.00	0.00
NO. 2	L	10,359.00	10,359.00	0.00	0.00	10,359.00	100.00%	0.00	828.72
NO. 2	M	12,011.67	12,011.67	0.00	0.00	12,011.67	100.00%	0.00	0.00
TOTAL		5,604,361.67	5,495,820.30	21,597.00	0.00	5,517,417.30	98.45%	86,944.37	170,328.77

OK, WTH

Certified Payroll Report

TP MECHANICAL CONTRACTORS
 2105 Schappelle Ln
 Cincinnati OH 45240

Job: A1.697 SCHOOL OF CREATIVE & PERFORMING ARTS
 1112 RACE STREET
 CINCINNATI, OH 45202

GC Job#/Contract
 State Job #

Week Ending 11-28-2009

*Received
 12/10/09*

GARY		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE		32	\$736.00	40.00	920.00	221.96	197.46	500.58
Caucasian								
FRANK		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE		32	\$768.00	40.00	960.00	207.57	21.97	730.46
Caucasian								
BRANDON		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE		32	\$496.00	40.00	620.00	129.12	54.05	436.83
Caucasian								
SHAWN		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE		32	\$1,142.08	40.00	1,427.60	452.01	20.60	954.99
RONALD		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE		24	\$779.40	40.00	1,298.40	284.13	90.53	923.74
Totals		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deduct	Net Paid
		152.00	\$3,921.48	200.00	5,226.00	1,294.79	384.61	3,546.60

Certified Payroll Report

TP MECHANICAL CONTRACTORS
 2105 Schappelle Ln
 Cincinnati OH 45240

Job: A1.697 SCHOOL OF CREATIVE & PERFORMING ARTS
 1112 RACE STREET
 CINCINNATI, OH 45202

GC Job#/Contract
 State Job #

Week Ending 11-21-2009

WILFREDO		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE	Hispanic							0.00
GARY		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE	Caucasian	40	\$920.00	40.00	920.00	225.79	197.46	496.75
FRANK		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE	Caucasian	40	\$960.00	40.00	960.00	211.60	21.97	726.43
BRANDON		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE	Caucasian	40	\$590.00	40.00	590.00	122.97	54.05	412.98
SHAWN		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE		32	\$1,142.08	40.00	1,427.60	452.01	20.60	954.99
Totals		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deduct	Net Paid
		152.00	\$3,612.08	160.00	3,897.60	1,012.37	294.08	2,591.15

Certified Payroll Report

T.P. MECHANICAL CONTRACTORS
 2105 Schappelle Ln
 Cincinnati OH 45240

Job: A1.697 SCHOOL OF CREATIVE & PERFORMING ARTS
 1112 RACE STREET
 CINCINNATI, OH 45202

GC Job#/Contract
 State Job #

Week Ending 11-14-2009

WILFREDO		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE	Hispanic	16	\$331.20	40.00	828.00	110.14	78.85	639.01
GARY		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE	Caucasian	32	\$736.00	32.00	736.00	163.70	179.06	393.24
FRANK		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE	Caucasian	40	\$960.00	44.50	1,122.00	255.64	25.21	841.15
BRANDON		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE	Caucasian	32	\$472.00	45.50	711.69	156.39	54.05	501.25
SHAWN		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deducts	Net Paid
MALE		26	\$927.94	40.00	1,427.60	450.73	20.60	956.27
Totals		Total Hours	Project Gross	Total Hours All Jobs	Total Gross All Jobs	Taxes Withheld	Vol Deduct	Net Paid
		146.00	\$3,427.14	202.00	4,825.29	1,136.60	357.77	3,330.92

Cincinnati Public Schools

2315 Iowa Avenue
Cincinnati, Ohio 45206

*Received
12/10/09*

Contractor's Name: TP Mechanical Contractors
Address: 2105 Schappelle Lane, Cinn.OH 45240

Contractor Pay Application Summary

Project Name : Cincinnati School for the Creative and Performing Arts
Bid Package No. : #3 and #5

1	Original Contract Amount	\$	\$5,511,777.00
2	Net Changes to Date	\$	92584.67
3	Current Contract Amount	\$	5604361.67
4	Labor Completed to Date	\$	
5	Material Completed to Date	\$	
6	Total Work Completed to Date	\$	5517417.30
7	Stored Material to Date	\$	
8	Less Retained to Date	\$	170328.77
9	Total Amount Due	\$	5347088.53
10	Less Previous Payments	\$	5327055.77
11	Less Amount Retained to Cover Lien	\$	
12	Less Amount Retained for Liquidated Damages	\$	
13	Less Other Amounts Withheld	\$	
14	Current Due	\$	20032.76
15	Balance to Complete	\$	257273.14

OK, WTH.

OSFC approval required for the following contract adjustments:

1. Assessment of liquidated damages
2. Other amounts withheld

Ohio School Facilities Commission

Date

Comments:

Part Load Rating



Issue Date: 8/07
 Project: Project
 Engineer: Sales Eng
 Customer: customer

Program: LTC
 Rev: v_75.12d
 Date: 03/11/07
 Page: 1 of 1

MODEL	YKARASQ3-CKC	(MOTOR SELECTED BY USER)	
REFRIGERANT	134A	GEAR CODE	XC(SPEC)
RATED CAPACITY (TR)	300	SPECIFIED CAPACITY (TR)	300
INPUT POWER (KW)	214	MAX MOTOR LOAD (KW)	213
VOLTAGE / HZ	460 / 60	OIL COOLER	REFRIG CLR
ORIFICE (VARY)	VALVE-2	OPTISOUND CONTROL	NO
ISOLATION VALVE	YES		
FLA	308	LRA	1950
MIN CIR. AMPS.	385	MAX.C.B.	800
FULL LOAD (KW/TR)	0.713	NPLV	0.478

STARTER TYPE (10) VARIABLE SPEED DRIVE

	Evaporator	Condenser
FLUID	WATER*	WATER*
% BY WEIGHT	0.0*	0.0*
TUBE MTI NO.	271*	260*
PASSES	2*	2*
FOUL FACTOR	0.00010*	0.00025*
FLUID ENT TEMP (°F)	57.65	85.00*
FLUID LEV TEMP (°F)	42.00*	99.65
FLUID FLOW (gpm)	460.0*	585.0*
FLUID PRDROP (ft)	14.8	10.9

(*) Designates Specified Input

PART LOAD PERFORMANCE:

Pct Load	CAP (TR)	Pct Power	Inp Pwr (KW)	EEFT (°F)	ELFT (°F)	CEFT (°F)	CLFT (°F)	Sys Perf (KW/TR)
100.0	300.0	100.0	214	57.65	42.00	85.00	99.65	0.713
80.0	240.0	69.2	148	54.52	42.00	80.00	91.44	0.617
60.0	180.0	47.2	101	51.39	42.00	75.00	83.45	0.591
40.0	120.0	29.4	63	49.26	42.00	70.00	76.65	0.525
20.0	60.0	15.9	34	46.13	42.00	65.00	67.76	0.567

Rating certified in accordance with ARI STD. 550/590.
 Water-chilling packages using the vapor compression cycle certification program.
 Compliant with ASHRAE 90.1

Materials and construction per mechanical specifications - Form 160.73-EG1.



A JOHNSON CONTROLS COMPANY

SOLUTION AIR HANDLING UNIT PERFORMANCE SPECIFICATION

Unit Tag	Qty	Model	Air Flow (CFM)
ERU-1	1	Solution Indoor Air Handler 72 x 126	25000

Coils & Spacers Listed Starting In Direction Of Air Flow

HC Coil - 01				Air Side Performance	Fluid Side Performance
Coil General/Physical Details					
Location:	0 Rows:	2	Air Flow(CFM):	25000	EWT (°F): 180.0
Tag:	AirCoil Fins Per Inch:	8	Altitude (ft.):	1004	LWT (°F): 141.3
Application:	Heating Tubes Per Circuit:	2	EAT-DB (°F):	39.1	GPM: 70.0
Coil Type:	Water Finned Height (in.):	60.00	LAT-DB (°F):	86.7	WPD (ft): 2.5
Face Type:	Full Finned Length (in.):	114	FV (ft/min):	526	FPS: 2.6
Tube Diameter:	1/2" BDW Coil Face Area (ft²):	47.5	TMBH:	1316.5	Fluid Type: Water
Tube Material:	Copper Coil Conn. Loc.: Right(Right)		APD (in. w.g.):	0.13	Fluid Weight(lb): 105.0
Tube Wall Thickness:	.020" Supp Conn Size:	3"			Fluid Volume(ft³): 1.7
Fin Type:	Corrugated Rtn Conn Size:	3"			
Fin Thickness:	.006" # of Supply	1			
Fin Material:	Aluminum Conn. (per coil):				
Casing Material:	Galvanized				
Connection Material:	Steel*				
Connection Type:	MPT				
Coating:	None				

*York suggests using red brass or copper connectors when the coil is to be attached to a copper or brass piping system. All water, R-22 DX and steam coils are certified in accordance to ARI Standard 410.

CC Coil - 01				Air Side Performance	Fluid Side Performance
Coil General/Physical Details					
Location:	0 Rows:	6	Air Flow(CFM):	25000	EWT (°F): 42.0
Tag:	AirCoil Fins Per Inch:	12	Altitude (ft.):	1004	LWT (°F): 58.0
Application:	Cooling Tubes Per Circuit:	4	EAT-DB (°F):	85.0	GPM: 152.1
Coil Type:	Water Finned Height (in.):	60.00	EAT-WB (°F):	67.0	WPD (ft): 11.7
Face Type:	Full Finned Length (in.):	114	LAT-DB (°F):	50.4	FPS: 3.8
Tube Diameter:	1/2" BDW Coil Face Area (ft²):	47.5	LAT-WB (°F):	49.7	Fluid Type: Water
Tube Material:	Copper Coil Conn. Loc.: Right(Right)		FV (ft/min):	526	Fluid Weight(lb): 255.0
Tube Wall Thickness:	.020" Supp Conn Size:	3"	SMBH:	898.0	Fluid Volume(ft³): 4.1
Fin Type:	Corrugated Rtn Conn Size:	3"	TMBH:	1221.0	
Fin Thickness:	.010" # of Supply Conn.	1	APD (in. w.g.):	0.68	
Fin Material:	Aluminum (per coil):				
Connection Material:	Steel*				
Connection Type:	MPT				
Casing Material:	Galvanized				
Coating:	None				

*York suggests using red brass or copper connectors when the coil is to be attached to a copper or brass piping system. All water, R-22 DX and steam coils are certified in accordance to ARI Standard 410.

Project Name: CPS - SCPA (AHU'S) 10-5	Sold To: TP MECHANICAL CONTRACTORS	
Location: CINCINNATI, OH	Customer Purchase Order No.: A1697-67208	
Engineer:	York Contract No.: 08132519	
Contractor: TURNER CONSTRUCTION CO./	Date:	Revision Date:

Printed: 11/5/2007 at 17:59

Unit Folder: ERU-1

11/1/2007 15:40:36

ERU-1Performance

Page 8 of 12

Airxchange AIRX ERC DESIGN POINT ANALYSIS

<u>DESIGN CONDITIONS</u>	<u>Dry Bulb, F</u>	<u>Wet Bulb, F</u>	<u>Enthalpy, Btu/lb</u>
SUMMER, Outdoor	94.00	71.00	35.21
SUMMER, Indoor	78.00	63.00	28.81
WINTER, Outdoor	6.00	4.00	2.03
WINTER, Indoor	72.00	54.00	22.77

Project Unit:	ERU1&2	Model Number:	ERC-110220C
SUPPLY AIR FLOW RATE, cfm	25000		25000
EXHAUST AIR FLOW RATE, cfm	24000		24000
Latent Effectiveness	69.79%		70.50%
Sensible Effectiveness	72.34%		73.02%
Measured Effectiveness (S/W)	71.8%		72.7%

SUPPLY AIR CONDITIONS	Summer	Winter
Dry Bulb Temperature, F	82.72	50.63
Wet Bulb Temperature, F	65.56	41.15
Enthalpy, Btu/lb	30.76	15.91
Relative Humidity, %	40.5	43.5

DESIGN LOADS, Btu/h	Summer	Winter
Outside Air, Sensible	406,708	1,791,331
Outside Air, Latent	270,411	554,464
Outside Air, Total	677,119	2,345,795

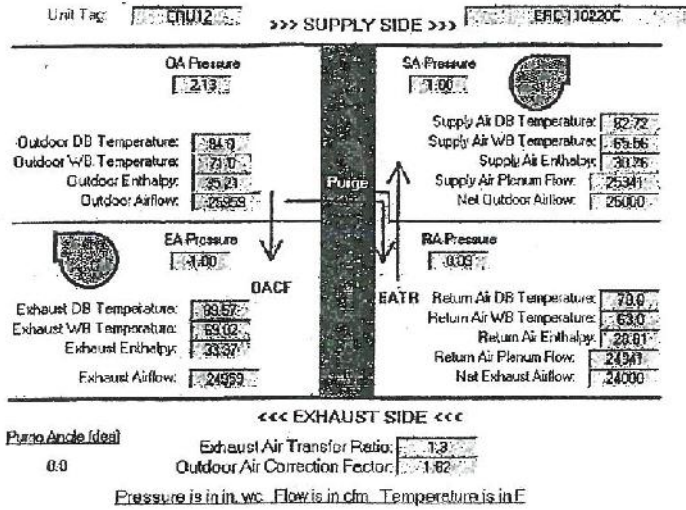
RECOVERED LOADS, Btu/h	Summer	Winter
Sensible Recovered	285,076	1,127,074
Latent Recovered	183,411	432,863
Total Recovered	468,487	1,559,938

Net OA Load	208,632	785,858
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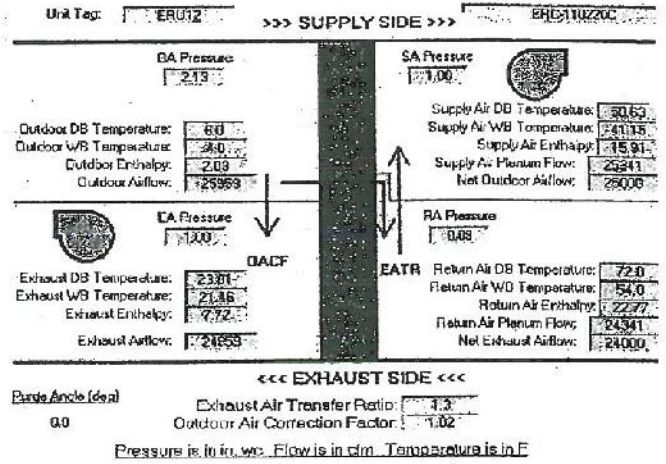
INSTALLED HVAC REDUCTION

COOLING, Tons	39.04	
HEATING, Btu/h		1,559,938

Summer Process Diagram



Winter Process Diagram





A JOHNSON CONTROLS COMPANY

SOLUTION AIR HANDLING UNIT PERFORMANCE SPECIFICATION

Unit Tag	Qty	Model	Air Flow (CFM)
ERU-2	1	Solution Indoor Air Handler 72 x 126	25000

Coils & Spacers Listed Starting In Direction Of Air Flow

HC Coil - 01				Air Side Performance		Fluid Side Performance	
Coil General/Physical Details				Air Side Performance		Fluid Side Performance	
Location:	0 Rows:	2	Air Flow(CFM):	25000	EWT (°F):	180.0	
Tag:	AirCoil Fins Per Inch:	8	Altitude (ft.):	1004	LWT (°F):	141.3	
Application:	Heating Tubes Per Circuit:	2	EAT-DB (°F):	39.1	GPM:	70.0	
Coil Type:	Water Finned Height (in.):	60.00	LAT-DB (°F):	86.7	WPD (ft):	2.5	
Face Type:	Full Finned Length (in.):	114	FV (ft/min):	526	FPS:	2.6	
Tube Diameter:	1/2" BDW Coil Face Area (ft²):	47.5	TMBH:	1316.5	Fluid Type:	Water	
Tube Material:	Copper Coil Conn. Loc.: Right(Right)		APD (in. w.g.):	0.13	Fluid Weight(lb):	105.0	
Tube Wall Thickness:	.020" Supp Conn Size:	3"			Fluid	1.7	
Fin Type:	Corrugated Rtn Conn Size:	3"			Volume(ft³):		
Fin Thickness:	.006" # of Supply	1					
Fin Material:	Aluminum Conn. (per coil):						
Casing Material:	Galvanized						
Connection Material:	Steel*						
Connection Type:	MPT						
Coating:	None						

*York suggests using red brass or copper connectors when the coil is to be attached to a copper or brass piping system. All water, R-22 DX and steam coils are certified in accordance to ARI Standard 410.

CC Coil - 01				Air Side Performance		Fluid Side Performance	
Coil General/Physical Details				Air Side Performance		Fluid Side Performance	
Location:	0 Rows:	6	Air Flow(CFM):	25000	EWT (°F):	42.0	
Tag:	AirCoil Fins Per Inch:	12	Altitude (ft.):	1004	LWT (°F):	58.0	
Application:	Cooling Tubes Per Circuit:	4	EAT-DB (°F):	85.0	GPM:	152.1	
Coil Type:	Water Finned Height (in.):	60.00	EAT-WB (°F):	67.0	WPD (ft):	11.7	
Face Type:	Full Finned Length (in.):	114	LAT-DB (°F):	50.4	FPS:	3.8	
Tube Diameter:	1/2" BDW Coil Face Area (ft²):	47.5	LAT-WB (°F):	49.7	Fluid Type:	Water	
Tube Material:	Copper Coil Conn. Loc.: Right(Right)		FV (ft/min):	526	Fluid Weight(lb):	255.0	
Tube Wall Thickness:	.020" Supp Conn Size:	3"	SMBH:	898.0	Fluid Volume(ft³):	4.1	
Fin Type:	Corrugated Rtn Conn Size:	3"	TMBH:	1221.0			
Fin Thickness:	.010" # of Supply	1	APD (in. w.g.):	0.68			
Fin Material:	Aluminum (per coil):						
Connection Material:	Steel*						
Connection Type:	MPT						
Casing Material:	Galvanized						
Coating:	None						

*York suggests using red brass or copper connectors when the coil is to be attached to a copper or brass piping system. All water, R-22 DX and steam coils are certified in accordance to ARI Standard 410.

Project Name: CPS - SCPA (AHU'S) 10-5	Sold To: TP MECHANICAL CONTRACTORS	
Location: CINCINNATI, OH	Customer Purchase Order No.: A1697-67208	
Engineer:	York Contract No.: 08132519	
Contractor: TURNER CONSTRUCTION CO./	Date:	Revision Date:

Printed: 11/5/2007 at 18:09

Unit Folder: ERU-2

11/1/2007 15:40:55

ERU-2Performance

Page 8 of 12

Airxchange AIRX ERC DESIGN POINT ANALYSIS

<u>DESIGN CONDITIONS</u>	<u>Dry Bulb, F</u>	<u>Wet Bulb, F</u>	<u>Enthalpy, Btu/lb</u>
SUMMER, Outdoor	94.00	71.00	35.21
SUMMER, Indoor	78.00	63.00	28.81
WINTER, Outdoor	6.00	4.00	2.03
WINTER, Indoor	72.00	54.00	22.77

Project Unit:	ERU1&2	Model Number:	ERC-110220C
SUPPLY AIR FLOW RATE, cfm	25000		25000
EXHAUST AIR FLOW RATE, cfm	24000		24000
Latent Effectiveness	69.79%		70.50%
Sensible Effectiveness	72.34%		73.02%
Measured Effectiveness (S/W)	71.8%		72.7%

SUPPLY AIR CONDITIONS	Summer	Winter
Dry Bulb Temperature, F	82.72	50.63
Wet Bulb Temperature, F	65.56	41.15
Enthalpy, Btu/lb	30.76	15.91
Relative Humidity, %	40.5	43.5

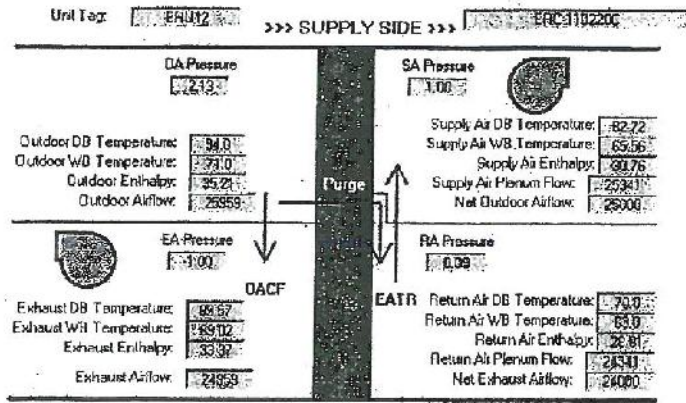
DESIGN LOADS, Btu/h	Summer	Winter
Outside Air, Sensible	406,708	1,791,331
Outside Air, Latent	270,411	554,464
Outside Air, Total	677,119	2,345,795

RECOVERED LOADS, Btu/h	Summer	Winter
Sensible Recovered	285,076	1,127,074
Latent Recovered	183,411	432,863
Total Recovered	468,487	1,559,938

Net OA Load	208,632	785,858
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INSTALLED HVAC REDUCTION		
COOLING, Tons	39.04	
HEATING, Btu/h		1,559,938

Summer Process Diagram



<<< EXHAUST SIDE <<<

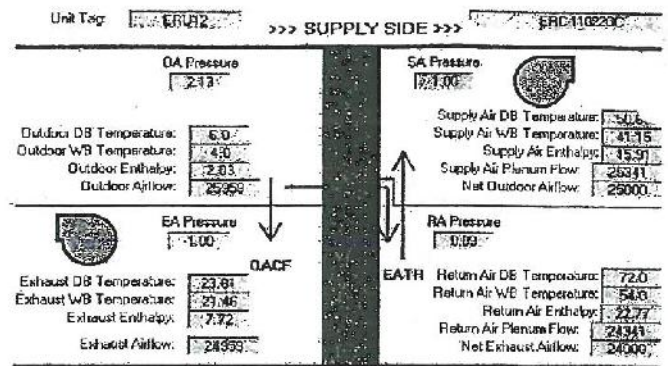
Purge Angle (deg)

0.0

Exhaust Air Transfer Ratio: 1.3
Outdoor Air Correction Factor: 1.02

Pressure is in in. wc. Flow is in cfm. Temperature is in F

Winter Process Diagram



<<< EXHAUST SIDE <<<

Purge Angle (deg)

0.0

Exhaust Air Transfer Ratio: 1.3
Outdoor Air Correction Factor: 1.02

Pressure is in in. wc. Flow is in cfm. Temperature is in F

HEAT RECOVERY WHEEL SAVINGS SUMMARY

	AHU-1	AHU-2	TOTAL
kWh:	17,426.4	17,426.4	34,852.7
Dollars:	\$ 1,394.11	\$ 1,394.11	\$ 2,788.22
75%	\$ 1,045.58	\$ 1,045.58	\$ 2,091.16

HEAT RECOVERY WHEEL SAVINGS

AHU-1

INPUTS

Minimum Fraction Outdoor Air:	96%
Heat Recover Effectiveness:	71.8%
Set Point Temperature:	78 F
Set Point Enthalpy:	28.81 Btu/lba
Supply Air Temperature:	50.4 F
Supply Air Enthalpy:	20.10 Btu/lba
Supply Air Volume:	25000 cfm
Supply Air Density:	0.075 lb/ft^3

Rate:	\$0.08
Chiller IPLV	25.105

SAVINGS

Cooling kWh:	17,426.36
Dollars:	\$1,394.11
75%	\$1,045.58

StrTemp	EndTemp	Toa(F)	hoa(Btu/lba)	hrs	foa	Tma(F)	hma(Btu/lba)	Q (mmBTU)
105	109	107.0	0	0	96%	105.8	1.15	0.00
100	104	102.0	0	0	96%	101.0	1.15	0.00
95	99	96.1	42.6	12	96%	95.4	42.05	12.83
90	94	92.2	39.6	41	96%	91.6	39.17	34.30
85	89	87.6	37.7	142	96%	87.2	37.34	97.89
80	84	82.4	35.0	250	96%	82.2	34.75	120.00
75	79	77.2	33.4	287	100%	77.2	33.40	106.41
70	74	72.5	31.9	241	100%	72.5	31.90	60.15
65	69	68.0	29.1	252	100%	68.0	29.10	5.90
60	64	62.6	24.8	322	100%	62.6	24.80	0.00
55	59	57.1	21.9	222	100%	57.1	21.90	0.00
50	54	52.0	19.2	226	100%	52.0	19.20	0.00
45	49	47.5	17.3	151	96%	48.7	17.76	0.00
40	44	43.1	15.2	211	96%	44.5	15.74	0.00
35	39	37.6	12.9	206	96%	39.2	13.54	0.00
30	34	32.4	10.8	135	96%	34.2	11.52	0.00
25	29	27.7	9.0	99	96%	29.7	9.79	0.00
20	24	23.3	7.5	66	96%	25.5	8.35	0.00
15	19	18.3	5.9	36	96%	20.7	6.82	0.00
10	14	12.5	4.1	16	96%	15.1	5.09	0.00
5	9	7.5	2.7	5	96%	10.3	3.74	0.00
0	4	3.0	1.4	0	96%	6.0	2.50	0.00
								437.49

HEAT RECOVERY WHEEL SAVINGS

AHU-2

INPUTS

Minimum Fraction Outdoor Air:	96%
Heat Recover Effectiveness:	71.8%
Set Point Temperature:	78 F
Set Point Enthalpy:	28.81 Btu/lba
Supply Air Temperature:	50.4 F
Supply Air Enthalpy:	20.10 Btu/lba
Supply Air Volume:	25000 cfm
Supply Air Density:	0.075 lb/ft^3

Rate:	\$0.08
Chiller IPLV	25.105

SAVINGS

Cooling kWh:	17,426.36
Dollars:	\$1,394.11
75%	\$1,045.58

StrTemp	EndTemp	Toa(F)	hoa(Btu/lba)	hrs	foa	Tma(F)	hma(Btu/lba)	Q (mmBTU)
105	109	107	0	0	96%	105.8	1.15	0.00
100	104	102	0	0	96%	101.0	1.15	0.00
95	99	96.1	42.6	12	96%	95.4	42.05	12.83
90	94	92.2	39.6	41	96%	91.6	39.17	34.30
85	89	87.6	37.7	142	96%	87.2	37.34	97.89
80	84	82.4	35	250	96%	82.2	34.75	120.00
75	79	77.2	33.4	287	100%	77.2	33.40	106.41
70	74	72.5	31.9	241	100%	72.5	31.90	60.15
65	69	68	29.1	252	100%	68.0	29.10	5.90
60	64	62.6	24.8	322	100%	62.6	24.80	0.00
55	59	57.1	21.9	222	100%	57.1	21.90	0.00
50	54	52	19.2	226	100%	52.0	19.20	0.00
45	49	47.5	17.3	151	96%	48.7	17.76	0.00
40	44	43.1	15.2	211	96%	44.5	15.74	0.00
35	39	37.6	12.9	206	96%	39.2	13.54	0.00
30	34	32.4	10.8	135	96%	34.2	11.52	0.00
25	29	27.7	9	99	96%	29.7	9.79	0.00
20	24	23.3	7.5	66	96%	25.5	8.35	0.00
15	19	18.3	5.9	36	96%	20.7	6.82	0.00
10	14	12.5	4.1	16	96%	15.1	5.09	0.00
5	9	7.5	2.7	5	96%	10.3	3.74	0.00
0	4	3	1.4	0	96%	6.0	2.50	0.00
								437.49