

Cincinnati Public Schools Mercantile Self
Direct Prescriptive Applications – Part 2 of 3

Mt Airy School
Supporting Documentation

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 |
|----------------|--------------|----------------|--------------|
| 8940-3651-01 | | | |
| | | | |
| | | | |
| | | | |

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 type="checkbox"/> Proof of payment.* | <input type="checkbox"/> Manufacturer's Spec sheets | <input type="checkbox"/> Energy model/calculations and detailed inputs for Custom applications |
|--|---|---|--|

* 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 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 type="checkbox"/> MSD Custom General Worksheet <input 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 Ohio Lighting Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.

Is this application: **NEW** (original) or **REVISED** (changes made to original application)

| Building Type – Required (check one) | | |
|--|--|---|
| <input type="checkbox"/> Data Centers | <input type="checkbox"/> Full Service Restaurant | <input type="checkbox"/> Office |
| <input checked="" type="checkbox"/> Education/K-12 | <input type="checkbox"/> Healthcare | <input type="checkbox"/> Public Assembly |
| <input type="checkbox"/> Education Other | <input type="checkbox"/> Industrial | <input type="checkbox"/> Public Order/Safety |
| <input type="checkbox"/> Elder Care/Nursing Home | <input type="checkbox"/> Lodging | <input type="checkbox"/> Religious Worship/Church |
| <input type="checkbox"/> Food Sales/Grocery | <input type="checkbox"/> Retail (Small Box) | <input type="checkbox"/> Service |
| <input type="checkbox"/> Fast Food Restaurant | <input type="checkbox"/> Retail (Big Box) | <input type="checkbox"/> Warehouse |
| <input type="checkbox"/> Other: | | |

| How did you hear about the program? (check one) | | |
|---|--------------------------------------|--------------------------------|
| <input type="checkbox"/> Duke Energy Representative | <input type="checkbox"/> Web Site | <input type="checkbox"/> Radio |
| <input checked="" type="checkbox"/> Contractor / Vendor | <input type="checkbox"/> Other _____ | |

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

| | | | |
|--|---|--|--|
| <input type="checkbox"/> All sections of application | <input type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer | <input type="checkbox"/> Tax ID number for payee | <input type="checkbox"/> Customer/vendor agree to Terms and Conditions |
|--|---|--|--|

| Customer Information | | | |
|---|---------------------------|------------------|--------------|
| Customer/Business | Cincinnati Public Schools | Contact | Don Elbe |
| Phone | 614-580-3352 | Account Number | 8940-3651-01 |
| Street Address (Where incentive should be mailed) | | 2651 Burnett Ave | |
| City | Cincinnati | State | OH |
| Zip Code | 45219 | | |
| Installation Street Address | 5730 Colerain Ave | | |
| City | Cincinnati | State | OH |
| Zip Code | 45239 | | |
| E-mail Address | | | |

*Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.

| Vendor Information | | | |
|--------------------|---------------------------|----------------------------|----------------|
| Vendor | Plug Smart | Contact | Lucas Dixon |
| Phone | 614-580-3352 | Fax | 1-800-518-5576 |
| Street Address | | 1275 Kinnear Road Suit 229 | |
| City | Columbus | State | OH |
| Zip Code | 43212 | | |
| E-mail Address | lucas.dixon@plugsmart.com | | |

If Duke Energy has questions about this application, who should we contact? Customer Vendor

| Payment Information | |
|---|---|
| Who should receive incentive payment? | <input checked="" type="checkbox"/> Customer <input type="checkbox"/> Vendor (Customer must sign below) |
| I hereby authorize payment of incentive directly to the vendor: | Customer Signature (written signature) |
| | Date |
| Provide Tax ID Number for Payee | Customer Tax ID # |
| | Vendor Tax ID # |
| | 31-6000758 |
| | 26-2368277 |

| Terms and Conditions | | | |
|--|--------------------|------------------|--------------------|
| I have read and hereby agree to the Terms & Conditions and Program Requirements. | | | |
| Customer Signature | <i>Don Elbe</i> | Vendor Signature | <i>[Signature]</i> |
| Date | 11-23-11 | Date | 11/23/2011 |
| Title | Utility Mgmt Coord | Title | Project Manager |

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|--------------------------------|-----------------------|-----|---|----------------------------|-------------------------------------|-----------------|
| T-12 fixtures replaced by T8 (T8 U tube lamps are eligible for incentives based on the total measured length of the lamp.) | | | | | | | |
| T8 8ft 2 lamp replacing T12 8ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$3.50 | | Hrs. | | | |
| T8 8ft 1 lamp replacing T12 8ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$2.50 | | Hrs. | | | |
| T8 4ft 4 lamp replacing T12 4ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$5.50 | | Hrs. | | | |
| T8 4ft 3 lamp replacing T12 4ft 3 lamp (retrofit only) | Ballast model# Lamp model # | \$4.50 | | Hrs. | | | |
| T8 4ft 2 lamp replacing T12 4ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 4ft 1 lamp replacing T12 4ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |
| T8 3ft 4 lamp replacing T12 3ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| T8 3ft 3 lamp replacing T12 3ft 3 lamp (retrofit only) | Ballast model# Lamp model # | \$3.25 | | Hrs. | | | |
| T8 3ft 2 lamp replacing T12 3ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 3ft 1 lamp replacing T12 3ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |
| T8 2ft 4 lamp replacing T12 2ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$3.00 | | Hrs. | | | |
| T8 2ft 3 lamp replacing T12 2ft 3 lamp (retrofit only) | Ballast model# Lamp model # | \$2.10 | | Hrs. | | | |
| T8 2ft 2 lamp replacing T12 2ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 2ft 1 lamp replacing T12 2ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%.
- *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|--------------------------------|-----------------------|-----|---|----------------------------|-------------------------------------|-----------------|
| T-12 fixtures replaced by T8 (T8 U tube lamps are eligible for incentives based on the total measured length of the lamp.) | | | | | | | |
| T8 HO 8ft 1 lamp replacing T12 HO 8ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| T8 HO 8ft 2 lamp replacing T12 HO 8ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$7.00 | | Hrs. | | | |
| T8 HB 4ft 3L replacing 150-249W HID(retrofit only) | Ballast model# Lamp model # | \$15.00 | | Hrs. | | | |
| T8 HB 4ft 4L a replacing 250-399W HID(retrofit only) | Ballast model# Lamp model # | \$20.00 | | Hrs. | | | |
| T8 HB 4ft 6L replacing 400-999W HID (retrofit only) | Ballast model# Lamp model # | \$25.00 | | Hrs. | | | |
| T8 HB 4ft 8L replacing a 400-999W HID(retrofit only) | Ballast model# Lamp model # | \$20.00 | | Hrs. | | | |
| 2 fixtures – T8 HB 4ft 8 Lamp (32W) replacing 1,000 W HID (2 for 1 replacement (retrofit only) | Ballast model# Lamp model # | \$60.00 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%.
- *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Fixtures = Lamps + Ballast <i>Fixtures must be permanently retrofitted to the lamp count specified. Reflectors may be utilized to maintain necessary lighting levels.</i> | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|----------------------------------|-----------------------|-----|--|----------------------------|-------------------------------------|-----------------|
| T-12 fixtures replaced by T8 with delamping | | | | | | | |
| T8 8ft 1 lamp replacing T12 8 ft 2 lamp (retrofit only)* | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| T8 4ft 2 lamp replacing T12 4ft 3 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.50 | | Hrs. | | | |
| T8 4ft 1 lamp replacing T12 4ft 2 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.50 | | Hrs. | | | |
| T8 3ft 3 lamp replacing T12 3ft 4 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 3ft 2 lamp replacing T12 3 ft 3 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 3ft 1 lamp replacing T12 3 ft 2 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 2ft 3 lamp replacing T12 2 ft 4 lamp (retrofit only)* | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |
| T8 2ft 2 lamp replacing T12 2 ft 3 lamp (retrofit only)* | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |
| T8 2ft 1 lamp replacing T12 2ft 2 lamp (retrofit only)* | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps .
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|--------------------------------|-----------------------------|-----|--|----------------------------------|---|--------------------|
| T12 8ft and 4ft fixture replaced by T8 High Performance Replace T12 and T12 HO 8' fixtures with High Performance T8 4ft lamps and ballast. Approved lamps and ballasts must be listed on the CEE High performance T8 qualified product list found on the web at www.cee1.org . | | | | | | | |
| High Performance T8 4ft 2 lamp fixture replacing T12 8ft 1 lamp fixture | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| High Performance T8 4ft 4 lamp fixture replacing T12 8ft 2 lamp fixture | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| High Performance T8 4ft 2 lamp fixture replacing T12 High Output 8ft 1 lamp fixture | Ballast model# Lamp model # | \$10.00 | | Hrs. | | | |
| High Performance T8 4ft 4 lamp fixture replacing T12 High Output 8ft 2 lamp fixture | Ballast model# Lamp model # | \$12.50 | | Hrs. | | | |
| High Performance T8 4ft 1 lamp fixture replacing T12 4ft 1 lamp | Ballast model# Lamp model # | \$3.00 | | Hrs. | | | |
| High Performance T8 4ft 2 lamp fixture replacing T12 4ft 2 lamp | Ballast model# Lamp model # | \$4.00 | | Hrs. | | | |
| High Performance T8 4ft 3 lamp fixture replacing T12 4 ft 3 lamp | Ballast model# Lamp model # | \$6.00 | | Hrs. | | | |
| High Performance T8 4ft 4 lamp fixture replacing T12 4 ft 4 lamp | Ballast model# Lamp model # | \$8.00 | | Hrs. | | | |
| T-12 4ft fixture replaced by Reduced Wattage T8 Lighting Replace standard T12 systems with 4' 25W lamps, 28W lamps, and approved CEE ballast. In order to qualify for incentives, bulbs and ballasts must be from CEE reduced-wattage approved list. To view the CEE Reduced Wattage T8 qualified product list, go to www.cee1.org . Note: Reduced Watt T8 compatibility varies; consult manufacturer's literature before specifying products. | | | | | | | |
| Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T12 4ft 1 lamp – 34 W | Ballast model# Lamp model # | \$4.00 | | Hrs. | | | |
| Reduced Wattage T8 4ft 2 lamp of 28 W or less & ballast replacing standard T12 4 ft 2 lamp – 34 W | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| Reduced Wattage T8 4ft 3 lamp of 28 W or less & ballast replacing standard T12 4 ft 3 lamp – 34 W | Ballast model# Lamp model # | \$7.00 | | Hrs. | | | |
| Reduced Wattage T8 4ft 4 lamp of 28 W or less & ballast replacing standard T12 4 ft 4 lamp – 34 W | Ballast model# Lamp model # | \$9.00 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Normal or low ballast factor ballasts must be utilized to be eligible.
- Reduced watt T8 lamps should not be used in dimming applications unless the lamp and ballast manufacturers have approved a specific application for dimming or frequent switching. May demonstrate dim light, spiraling, pulsing and other undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|--|--------------------------------|-----------------------------|-----|--|----------------------------------|---|--------------------|
| T-12 fixtures replaced with T5 Electronic Ballasts | | | | | | | |
| T5 4ft (28 watt) 1 lamp replacing T12 4ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$2.50 | | Hrs. | | | |
| T5 4ft (28 watt) 2 lamp replacing T12 4ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$4.00 | | Hrs. | | | |
| T5 4ft (28 watt) 3 lamp replacing T12 4ft 3 lamp (retrofit only) | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| T5 4ft (28 watt) 4 lamp replacing T12 4ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$6.00 | | Hrs. | | | |
| T5 HO 4ft 1 (54 watt) lamp replacing 34W T12 4ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$3.00 | | Hrs. | | | |
| T5 HO 4ft 2 (54 watt) lamp replacing 34W T12 4ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$4.50 | | Hrs. | | | |
| T5 HO 4ft 2 (54 watt) lamp replacing 60W T12 8 ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$4.50 | | Hrs. | | | |
| T5 HO 4ft 3 (54 watt) lamp replacing 95W T12 HO 8ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$5.50 | | Hrs. | | | |
| T5 HO 4ft 4 (54 watt) lamp replacing 60W T12 8ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$6.50 | | Hrs. | | | |
| T5 HO 4ft 4 (54 watt) lamp replacing 95W T12 VHO 8ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$6.50 | | Hrs. | | | |
| T5 HO HB 2L replacing 150-249W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$15.00 | | Hrs. | | | |
| T5 HO HB 3L replacing 250-399W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$20.00 | | Hrs. | | | |
| T5 HO HB 4L replacing 400-999W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$25.00 | | Hrs. | | | |
| T5 HO HB 6L replacing 400-999W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$20.00 | | Hrs. | | | |
| T5 HO HB 8L replacing 750-999W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$37.50 | | Hrs. | | | |
| 2 fixtures – T5 HO HB 6 Lamp replacing 1,000 W HID (2 for 1 retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$60.00 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-5 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- Eligible T5 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%. *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.

- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|--------------------------------|--------------------------|-----|--|----------------------------------|---|--------------------|
| T-8 Fixtures replaced by High Performance T8 Lighting Replace standard T8 systems with High Performance T8 4ft lamps and ballast. Approved lamps and ballasts must be listed on the CEE High performance T8 qualified product list found on the web at www.cee1.org . | | | | | | | |
| T8 4ft High Performance 1 lamp & ballast replacing standard T8 4ft 1 lamp fixture | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 4ft High Performance 2 lamp & ballast replacing standard T8 4ft 2 lamp fixture | Ballast model# Lamp model # | \$3.00 | | Hrs. | | | |
| T8 4ft High Performance 3 lamp & ballast replacing standard T8 4ft 3 lamp fixture | Ballast model# Lamp model # | \$3.10 | | Hrs. | | | |
| T8 4ft High Performance 4 lamp & ballast replacing standard T8 4ft 4 lamp fixture | Ballast model# Lamp model # | \$6.00 | | Hrs. | | | |
| T-8 Fixtures replaced by Reduced Wattage High Performance T8 Lighting Replace standard T8 systems with 4' 25W lamps, 28W lamps approved CEE ballast OR relamp existing T8 fixtures with reduced wattage T8 lamps 28W or less. In order to qualify for incentives bulbs and ballasts must be from CEE reduced-wattage approved list. To view the CEE Reduced Wattage T8 qualified product list, go to www.cee1.org . Note: reduced wattage T8 compatibility varies; consult manufacturer's literature before specifying products. | | | | | | | |
| Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T8 4ft 1 lamp – 32W | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| Reduced Wattage T8 4ft 2 lamp of 28W or less & ballast replacing standard T8 4ft 2 lamp – 32W | Ballast model# Lamp model # | \$3.00 | | Hrs. | | | |
| Reduced Wattage T8 4ft 3 lamp of 28W or less & ballast replacing standard T8 4ft 3 lamp – 32W | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| Reduced Wattage T8 4ft 4 lamp of 28W or less & ballast replacing standard T8 4ft 4 lamp – 32W | Ballast model# Lamp model # | \$6.00 | | Hrs. | | | |
| Relamp T8 4ft 32W fixtures with Reduced Wattage T8 lamps 28 watts or less | Ballast model# Lamp model # | \$2.50 / lamp | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps .
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Reduced watt T8 lamps should not be used in dimming applications unless the lamp and ballast manufacturers have approved a specific application for dimming or frequent switching. May demonstrate dim light, spiraling, pulsing and other undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| CFL Lamps and Fixtures | Incentive | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|--|------------------|-----|--|----------------------------|-------------------------------------|-----------------|
| 42W 8 lamp HB CFL replacing 400W HID (retrofit only) Model Number | \$25.00 | | Hrs. | | | |
| CFL – Screw In (lamp only) replacing an incandescent (retrofit only) Model Number | \$0.75 / lamp | | Hrs. | | | |
| CFL – Screw-In dimmable or 3-way bulb replacing an incandescent dimmable or 3-way bulb (retrofit only) Model Number | \$1.00 / lamp | | Hrs. | | | |
| CFL – Hardwired Fixture replacing incandescent fixture (only pin based CFL's qualify) Model Number | \$5.00 / fixture | | Hrs. | | | |
| Up to 30W CFL Flood Lamp with Reflector replacing 100W or less incandescent (retrofit only) Model Number | \$1.50 / lamp | | Hrs. | | | |
| 33W – 115W CFL lamp replacing 100 W or more incandescent Model Number | \$2.50 / lamp | | Hrs. | | | |
| Energy Star LED Lamps | | | | | | |
| Replace incandescent bulbs with Energy Star LED (retrofit only) <i>LED lamps must be listed on the Energy Star Qualified Light Bulbs list to qualify.</i> http://www.energystar.gov/index.cfm?fuseaction=iledl.display_products_pdf Model Number | \$5.00 / lamp | | Hrs. | | | |
| Replace 60-100W incandescent with ENERGY STAR qualified LED downlight 18 Watts or less. (retrofit only) <i>Product must appear on ENERGY STAR Qualified LED Lighting qualified products list, and must contain the word "downlight".</i> http://www.energystar.gov/index.cfm?fuseaction=ssl.display_products_com_pd Model Number | \$7.50 / fixture | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.

| Metal Halide | | | | | | |
|--|-------------|--|--|------|--|--|
| 320W Pulse Start Halide replacing 400W HID (retrofit only) **check one <input type="checkbox"/> R <input type="checkbox"/> FE Model Number | \$12.50 | | | Hrs. | | |
| Ceramic Metal Halide | | | | | | |
| 20W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescent or <input type="checkbox"/> Halogen of at least 100 W Model Number | \$15.00 | | | Hrs. | | |
| 39W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescent or <input type="checkbox"/> Halogen of at least 150 W Model Number | \$15.00 | | | Hrs. | | |
| 50W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogen for a total of 195W Model Number | \$15.00 | | | Hrs. | | |
| 70W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogen for a total of 225W Model Number | \$15.00 | | | Hrs. | | |
| 100W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogens for a total of 270W Model Number | \$15.00 | | | Hrs. | | |
| 150W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogens for a total of 360W Model Number | \$15.00 | | | Hrs. | | |
| 25 W or less Ceramic Metal Halide with integral ballast replacing 70 W or greater incandescent flood light Model Number | \$5.00/lamp | | | Hrs. | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- Incentives for pulse start metal halide fixtures are for 320w pulse start metal halide lamp/ballast combinations. In a retrofit application, the fixture must be hard-wired ballast retrofit or new fixture. Screw in retrofit lamps do not qualify. Pulse start lamp wattage must be lower than existing probe start lamp wattage.
- Ceramic Metal Halide Incentive is for complete hardwired fixtures containing ceramic metal halide lamp and electronic ceramic metal halide ballast.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Measure | Incentive | Qty | Annual Operating Hrs (minimum of 1800) | Equipment cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|-------------------|-----|--|----------------------------|-------------------------------------|-----------------|
| 21" Tubular Skylight/Light Tube (at least one light fixture per light tube must be controlled by a "daylight" sensor (no additional daylight sensor incentive applies) Check One ** <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number | \$37.50 / fixture | | | | | |
| LED Exit Signs (replacing or retrofitting existing incandescent or compact fluorescent exit sign) Check one <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number | \$5.00 / fixture | | | | | |
| LED Lighting In Reach-in Freezer or Cooler Case (replacing fluorescent fixtures) Model Number | \$25.00 / door | | | | | |
| LED Case Lighting Sensor Controls Check one <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number Model Number | 5.00 / sensor | | | | | |
| Under 500 W connected to sensor check one <input type="checkbox"/> R <input checked="" type="checkbox"/> NC <input type="checkbox"/> FE Model Number CM-PDT-10, WV-PDT-16 | \$10.00 / sensor | 23 | 2800 | \$2,711.47 | 8/19/2008 | \$230.00 |
| Over 500 W connected to sensor check one <input type="checkbox"/> R <input checked="" type="checkbox"/> NC <input type="checkbox"/> FE Model Number CM-PDT-10, WV-PDT-16 | \$20.00 / sensor | 110 | 2800 | \$12,967.90 | 8/19/2008 | \$2,200.00 |

- Replacement must result in energy savings to qualify
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- Tubular Skylight requires at least one light fixture per light tube that must be controlled by a "daylight" sensor (no additional daylight sensor incentive applies)
- LED exit signs shall use 5 watts or less including the battery charger when active. They must meet State Fire Marshal codes and be UL rated.
- Occupancy Sensors (under and over 500) must be either wall, ceiling, or fixture mounted. Rapid or programmed start ballasts are recommended for fluorescent fixtures.
- Occupancy Sensors (under 500W) installed on or built into High Bay fixtures are eligible for incentives.
- LED Lighting in Reach-in Freezer or Cooler Case: Must install a LED lighting system and replace (or in lieu of) a fluorescent lighting system for reach-in refrigerated display case.
- Fluorescent magnetic ballasts cannot be used to power the LED case lighting system. Existing fluorescent fixture end connectors and ballasts must be removed.
- LED case lighting system must be a permanently installed luminaire. LED lamps that install into fluorescent lamp sockets are not eligible for incentives.
- LED Case Lighting Sensor Controls may only be installed with LED lighting systems. End of aisle and individual case sensors qualify.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Outdoor Lighting | Incentive | Qty | Annual Operating Hrs (minimum of 1800) | Equipment cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|--|-----------------|-----|--|----------------------------|-------------------------------------|-----------------|
| Exterior LED or Induction fixture replacing up to 175W HID Model Number | \$20 / fixture | | | | | |
| Exterior LED or Induction fixture replacing 176W – 250W HID Model Number | \$25 / fixture | | | | | |
| Exterior LED or Induction fixture replacing 251W – 400W HID Model Number | \$40 / fixture | | | | | |
| Exterior LED or Induction fixture replacing > 400 W HID Model Number | \$75/ fixture | | | | | |
| Garage LED or Induction fixture replacing up to 175 W HID Model Number | \$50/ fixture | | | | | |
| Garage LED or Induction fixture replacing 176W – 250W HID Model Number | \$75/ fixture | | | | | |
| Garage LED or Induction fixture replacing 251W – 400 W HID Model Number | \$125/ fixture | | | | | |
| Garage LED or Induction fixture replacing > 400 W HID Model Number | \$200/ fixture | | | | | |
| LED Auto Traffic Signals (replacing incandescent) Model Number | \$6.25 / lamp | | | | | |
| LED Pedestrian Signals (replacing incandescent) Model Number | \$12.50/ signal | | | | | |

- Replacement must result in energy savings to qualify
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- or and garage LED and induction lighting must result in a total power **reduction** of 40% or more.
- or and garage LEDs should be listed on either the Energy Star or Design Lights consortium qualifying products lists:
 1. http://www.energystar.gov/index.cfm?fuseaction=ssl.display_products_com_pdf
 2. <http://www.designlights.org/documents/NEEPDLCQPL.xls>
- and pedestrian signals using LED lights must replace conventional incandescent signals.
- ve capped at 50% of the equipment cost.
- construction or replacement of failed equipment must apply for Self Direct Custom program.

All
Outdo
Outdo
Traffic
Incenti
New

Program Requirements

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and it's affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties) and 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.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application. (Page7)
3. Purchase and install eligible energy-efficient equipment.
4. Complete and submit application for equipment that was installed after 1/1/2008.
5. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
6. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
8. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
8. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

Mercantile Self Direct Rebate Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.

Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to **513-419-5572**.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call **1-866.380.9580** or visit www.duke-energy.com.



Mercantile Self Direct Incentive Program

| Technology | Responsible for sales and not installs* | Responsible for sales and Installation* | Technology | Responsible for sales and not installs* | Responsible for sales and Installation* |
|--|--|--|--------------------|--|--|
| Lighting | <input type="checkbox"/> | <input type="checkbox"/> | Thermal Storage | <input type="checkbox"/> | <input type="checkbox"/> |
| Heating Ventilation & Cooling | <input type="checkbox"/> | <input type="checkbox"/> | Pumps/Motors/VFD's | <input type="checkbox"/> | <input type="checkbox"/> |
| Food Service | <input type="checkbox"/> | <input type="checkbox"/> | Chillers | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Heating | <input type="checkbox"/> | <input type="checkbox"/> | Refrigeration | <input type="checkbox"/> | <input type="checkbox"/> |
| Process Equipment (air compressors, injection molding, etc.) | <input type="checkbox"/> | <input type="checkbox"/> | Window Film | <input type="checkbox"/> | <input type="checkbox"/> |

* Check all that apply

Vendors who wish to be listed as a Mercantile Self Direct Incentive Program participating Vendor shall complete this form. A signed copy of this form must be on file at Duke Energy in order for the Vendor to receive incentive payments. Fax form to **513-419-5572** or email to SelfDirect@duke-energy.com.

I have read and understand the Mercantile Self Direct Incentive Program Requirements for Vendor Participation, and I agree to comply with all requirements set forth therein. By signing this agreement, I agree to provide my customers with information and documentation that is true and accurate to the best of my knowledge. I hereby represent and warrant that the Tax ID and Vendor Tax Status provided below are true and accurate. I agree that any confidential information concerning my customer, including but not limited to Duke Energy service account information, will be used for the sole purpose of facilitating the customer's participation in the Mercantile Self Direct Incentive Program. Further, I understand that I am responsible for making sure everyone working for me understands the requirements prior to soliciting customer participation.

| | |
|------------------------------|--|
| Vendor Federal Tax ID Number | |
|------------------------------|--|

To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a third-party vendor. The third-party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the third-party vendor have signed confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

| | | | | |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|
| Vendor Tax Status | <input type="checkbox"/> Corporation | <input type="checkbox"/> Individual/Sole Proprietor | <input type="checkbox"/> Partnership | <input type="checkbox"/> Other |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|

| | | | |
|----------------|--------------------------------|---------------------------------|-------------------------------|
| Contact me via | <input type="checkbox"/> Phone | <input type="checkbox"/> E-Mail | <input type="checkbox"/> Mail |
|----------------|--------------------------------|---------------------------------|-------------------------------|

| | |
|--------------------------|--|
| Company Name | |
| Mailing Address | |
| City, State, Zip | |
| Phone/Fax | |
| Primary E-mail Address | |
| Secondary E-mail Address | |
| Vendor Signature | |
| Title | |
| Print Name | |
| Date | |

For more information, call 1-866-380-9580 or visit www.duke-energy.com.



EXTENDED RANGE 360° SENSOR CEILING MOUNT • LOW VOLTAGE • DUAL TECHNOLOGY (PDT)

SPECIFICATIONS

FEATURES

- 100% Digital PIR Detection, Excellent RF Immunity
- 360° Coverage Pattern
- Patented Dual Technology with PIR / Microphonics Detection
- Push-Button Programmable
- Adjustable Time Delays
- Convenient Test Mode
- No Field Calibration or Sensitivity Adjustments Required
- 100 hr Lamp Burn-in Timer
- Green LED Indicator

LAMP MAXIMIZER® TECHNOLOGY

- Protects Lamp Life while Maximizing Energy Savings
- Minimum On Timer (15 min default)
- Occ. Time Delay (10 min default)
- LampMaximizer+ Mode - Optimizes Lamp Life & Energy Savings (disabled by default)
- Switch Counter (in 1000's)
- Total Lamp On Time (in khrs)

PHYSICAL SPECS

- SIZE 4.55" Dia. (11.56 cm)
1.55" Deep (3.94 cm)
- WEIGHT 6 oz
- MOUNTING
Ceiling Tile Surface
3.5" Octagon Box
Single Gang Handy Box
- COLOR White

ELECTRICAL SPECS

- OPERATING VOLTAGE
12-24 VAC/VDC
- CURRENT DRAW
Standard, 4 mA
w/ R option, 16 mA
- DIMMING LOAD Sinks < 20mA;
~40 Ballasts @ .5mA each
- RECOMMENDED POWER PACK
PP20

ENVIRONMENTAL SPECS

- OPERATING TEMP
14° to 160° F (-10° to 71° C)
- STORAGE TEMP
-14° to 160° F (-26° to 71° C)
- RELATIVE HUMIDITY
20 to 90% non-condensing
- SILICONE FREE
- ROHS COMPLIANT

OVERVIEW

Classrooms are ideal applications for the **CM PDT 10** Series Extended Range 360° occupancy sensor. When mounted at 9 ft (2.74 m), this sensor provides line of sight Passive Infrared (PIR) detection of walking type motions up to 28 ft (8.53 m) in all directions. Additionally, the **CM PDT 10** provides overlapping Microphonics™ technology to detect smaller motions and occupant movements that occur behind obstructions. This is important for classrooms filled with obstructions like shelving or hanging projects. When comparing small motion detection, the **CM PDT 10** far out performs dual technology sensors that are specified with 2,000 ft² of coverage. Spaces with low ceiling heights are also best covered by the **CM PDT 10**. For example, when mounted at the 7 ft (2.13 m) ceiling height of many distribution center pick aisles, the **CM PDT 10** provides a 32 ft (9.75 m) diameter pattern of coverage. Additionally, the **CM PDT 10** may be used in combination with other sensors to customize coverage for very large or irregularly shaped spaces.

SENSOR OPERATION

Sensors with Passive Dual Technology (PDT) first see motion using 100% digital Passive Infrared (PIR) detection and then engage Microphonics™ to hear sounds that indicate continued occupancy. This patented technology uses Automatic Gain Control (AGC) to dynamically self adapt a sensor to its environment by filtering out constant background noise and registering only noises typical of human activity. When occupancy is detected, a DC output goes high and can drive up to 200 mA of connected load. If needed, a 10 second grace period also allows the lights to be voice reactivated after shutting off. The sensor is powered with 12-24 VAC/VDC and typically operates with a **PP20** or **MP20** power pack, enabling complete 20 Amp circuits to be controlled.

LAMP MAXIMIZER®

This sensor also contains patent pending LampMaximizer technology that allows users to aggressively target energy savings while still protecting lamp life. A minimum on timer, factory set at 15 minutes, helps preserve lamp life by eliminating all lamp cycles shorter than lamp warranties specify. A standard occupancy time delay is also present that ensures lights turn off (assuming minimum on timer has elapsed) if no occupancy is detected. This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 20 minutes. These adjustments can be done manually, through the units push-button, or automatically every two weeks through an advanced mode, called LampMaximizer+, that determines the optimum time delay in order to maximize both lamp life and energy savings. Additionally, this sensor maintains statistics on total lamp on time and number of cycles.

OPTIC

LOW VOLTAGE RELAY (R)

- Enables sensors to interface with other systems (e.g., BMS, lighting panels)
- Provides dry contact closure via a SPDT, 1 Amp, 40 Volt relay
- Only one relay needed per zone
- Changes state when all connected sensors register unoccupied
- Relay requires sensor power to function

OCCUPANCY CONTROLLED DIMMING (D)

- Provides dimming output to control 0-10 VDC dimmable ballasts
- Provides a second occupancy time-out period that enables the lights to go to a dim setting before turning off
- Adjustable max/min dim setting
- Only one sensor per zone needs to have dimming output

PHOTOCELL (P)

- Auto set-point calibration
- Two selectable modes of operation
- On/Off mode: Photocell has full control during periods of occupancy
- Inhibit mode: Photocell can prevent lights from turning on if adequate daylight is available, but cannot turn lights off

PHOTOCELL W/ DIMMING (ADC)

- Photocell within sensor maintains total room light level by controlling levels of 0-10 VDC dimmable ballasts
- Photocell also has full on/off control during periods of occupancy
- Provides a second occupancy time-out period that enables the lights to go to a dim setting before turning off

Note: LampMaximizer+ features not available with ADC option

LOW TEMP/HIGH HUMIDITY (LT)

- Sensor is corrosion resistant to moisture
- Operates down to -4° F (-20° C)



TITLE 24
MADE in U.S.A.
5 YEAR WARRANTY

ORDERING INFO CM PDT 10 [RELAY] [DIMMING/PHOTOCELL] [TEMP/HUMIDITY]

RELAY

- Blank = None
- R = Low Voltage Relay

DIMMING / PHOTOCELL CHOOSE ONE ONLY

- Blank = None
- D = Occupancy Controlled Dimming
- P = Photocell
- ADC = Photocell w/ Dimming

TEMP/HUMIDITY

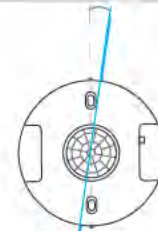
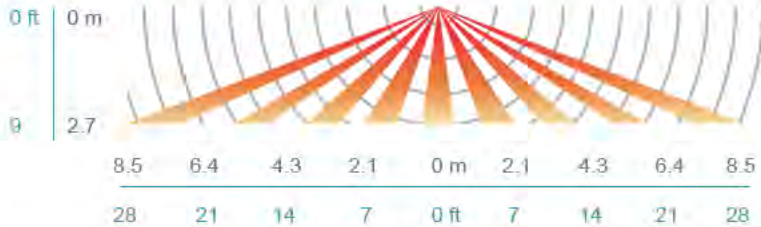
- Blank = Standard
- LT = Low Temp

COVERAGE PATTERN

10 EXTENDED RANGE 360° LENS WITH MICROPHONICS™

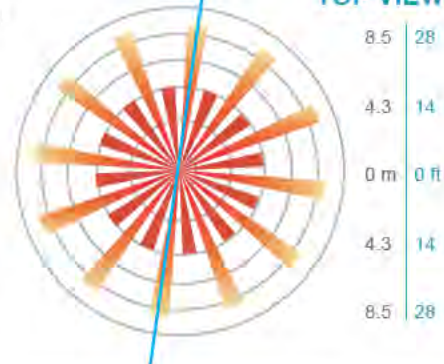
- Best choice for large motion (e.g. walking) detection
- Viewing angle of 67° in a 360° conical shaped pattern
- Provides 28 ft (8.53 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.

SIDE VIEW



Note: Sensor's screw axis is offset 7.5° from a long detection segment

TOP VIEW



WIRING (DO NOT WIRE HOT)

STANDARD WIRING

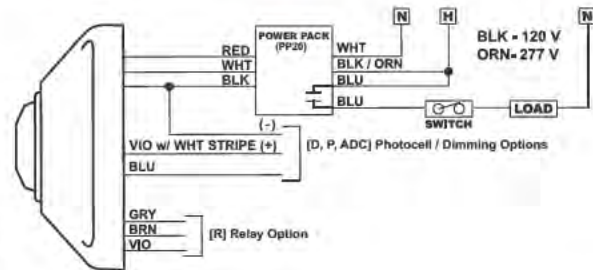
- RED** - Power Input (12-24 VAC/VDC)
- BLACK** - Common
- WHITE** - Occupancy State (high VDC for occupied)

PHOTOCELL/DIMMING OPTIONS (D, P, ADC)

BLUE - Direct output to power pack for providing photocell control and/or secondary dim time out. Output is high VDC with occupancy & low light. Output also held high during secondary dim time out. For multi-level control, use two power packs and connect White wire to primary load and Blue to daylight load.

VIOLET w/ WHITE STRIPE - Connect to 0-10 VDC control wire (typically Violet) from 0-10 VDC dimmable ballast

GRAY from Ballast - Connect to sensor Black wire

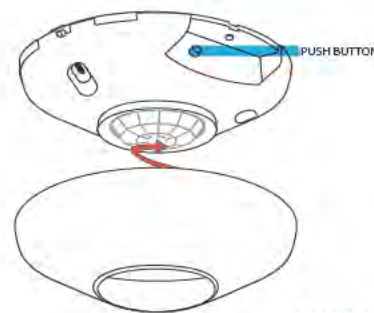


RELAY OPTION (R)

- GRAY / BROWN** - Connected during occupied state
 - VIOLET / BROWN** - Connected during unoccupied state
- Note:** Relay is energized during unoccupied state

INSTALLATION

- Mount sensor directly to a ceiling tile or a metallic grid (two self-tapping screws provided).
- Sensor's mounting holes also align with 3.5" octagon or single gang handy box (screws not provided).
- Sensor will detect motions crossing segments more effectively than motions parallel to beams.
- For optimal detection, position sensor such that segments are crossed upon entrance and unable to view outside the space.
- For maximum Microphonics™ sensitivity, avoid locating sensor near HVAC air diffusers.



*At 9ft Mtg.

- A:** When walking across beam, detection will occur at approximately 28 ft (8.53 m)
- B:** When walking into beam, detection will occur at approximately 24 ft (7.32 m)

PROGRAMMING

Refer to instruction card IC7.001 for default settings and directions on programming the sensor via the push-button.

sensorswitch

An Acuity Brands Company

900 Northrop Road, Wallingford, CT 06492 • 1.800.PASSIVE • FX 203.269.9621 • www.sensorswitch.com

WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.
LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.

TS-CM-004A



WIDE VIEW SENSOR CORNER MOUNT • LOW VOLTAGE • DUAL TECHNOLOGY (PDT)

SPECIFICATIONS

FEATURES

- PIR Occupancy Detection
- 120° by 40 ft (12.19 m) Coverage for Small Motion
- Adjustable Time Delay
- 100 Hr. Lamp Burn-In Timer Mode
- Green LED Indicator

PHYSICAL SPECS

- SIZE 3.0" H x 3.6" W x 1.75" D (7.62 cm x 9.14 cm x 4.45 cm)
- WEIGHT 5 oz
- MOUNTING Directly to corner or to ceiling using **WV BR** bracket
- COLOR White

ELECTRICAL SPECS

- OPERATING VOLTAGE 12-24 VAC/VDC
- CURRENT DRAW Standard, 4 mA w/ R option, 16 mA
- RECOMMENDED POWER PACK PP20

ENVIRONMENTAL SPECS

- OPERATING TEMP 14° to 160° F (-10° to 71° C)
- STORAGE TEMP -14° to 160° F (-26° to 71° C)
- RELATIVE HUMIDITY 20 to 90% non-condensing

OTHER

- UL and CUL Listed
- Title 24 Compliant
- 5 Year Warranty
- Made in the U.S.A.

Classrooms are the ideal application for the **WV PDT 16** Dual Technology Wide View Sensor. Installed in the corner of the room along the entrance wall, this inconspicuous sensor provides line of sight PIR detection of small movements up to 40 ft (12.19 m) away, and combines overlapping Microphonics™ for detection around obstructions. Many classrooms are filled with shelving, projects, or lab benches. Total coverage of the room is always maintained no matter how cluttered the space becomes. The **WV PDT 16** is also used in corridors due to its ability to view up to 70 ft (21.34 m) for walking motions, or large open storage areas where obstructions may block the PIR's ability to view. For large lecture halls, multiple **WV PDT 16s** may be wired together, or along with any other low voltage sensors.

SENSOR OPERATION

The sensor has Passive Dual Technology (PDT), which first sees motion using Passive Infrared (PIR), and then engages Microphonics™ to hear sounds that indicate continued occupancy. This patented technology uses Automatic Gain Control (AGC) to dynamically self-adapt the sensor to its environment by filtering out constant background noise and detecting only noises typical of human activity. When occupancy is detected, a DC output goes high and can drive up to 200 mA of connected load. The sensor is powered with 12-24 VAC/VDC and typically operates with a **PP20** or **MP20** power pack, enabling complete 20 Amp circuits to be controlled. An internal timer, factory set at 10 minutes, keeps the lights on during brief periods of inactivity. This timer is push-button programmable from 30 seconds to 20 minutes, and is reset every time occupancy is re-detected. This state-of-the-art sensor requires no field calibration or adjustment.

OPTIONS

LOW VOLTAGE RELAY (R)

- Enables sensors to interface with other systems (e.g., BMS, lighting panels)
- Provides dry contact closure via a SPDT, 1 Amp, 40 Volt relay
- Only one relay needed per zone
- Changes state when all connected sensors register unoccupied
- Relay requires sensor power to function

PHOTOCELL (P)

- Auto set-point calibration
- Two selectable modes of operation
- On/Off mode: Photocell has full control during periods of occupancy
- Inhibit mode: Photocell can prevent lights from turning on if adequate daylight is available, but cannot turn lights off

LOW TEMP/HIGH HUMIDITY (LT)

- Sensor is corrosion resistant to moisture
- Operates down to -4° F/ 20° C

ORDERING INFO WV PDT 16 [RELAY] [PHOTOCELL] [TEMP/HUMIDITY]

RELAY

- Blank = None
- R = Low Voltage Relay

PHOTOCELL

- Blank = None
- P = Photocell

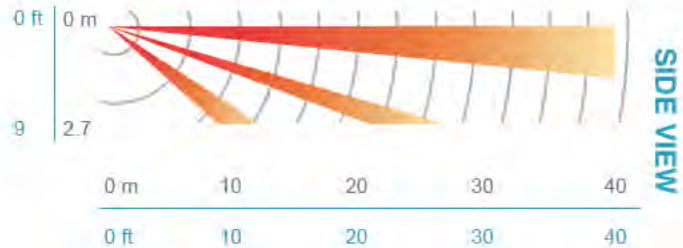
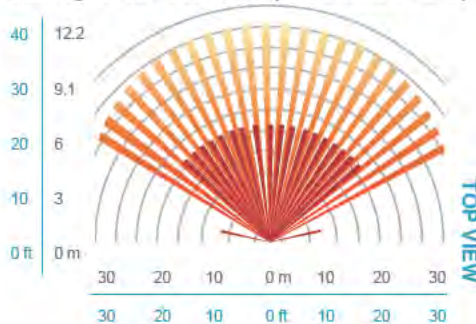
TEMP/HUMIDITY

- Blank = Standard
- LT = Low Temp

COVERAGE PATTERN

16 WIDE VIEW LENS WITH MICROPHONICS™

- Small motion (e.g. **hand movements**) detection up to 40 ft (12.19 m).
- Large motion (e.g. **walking**) detection up to 70 ft (21.34 m).
- Designed for 8 to 10 ft (2.44 to 3.05 m) high mounting in room corner.
- Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.



WIRING (DO NOT WIRE HOT)

STANDARD WIRING

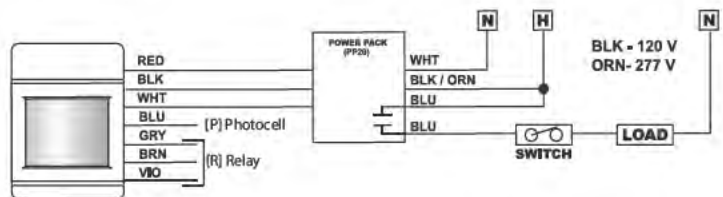
- RED** - Power Input (12-24 VAC/VDC)
- BLACK** - Common
- WHITE** - Output (high VDC for occupancy)

RELAY OPTION (R)

- GRAY/BROWN - Connected during occupied state
- VIOLET/BROWN - Connected during unoccupied state
- Note: Relay is energized during unoccupied state.

PHOTOCELL OPTION (P)

- BLUE** - Use in place of White output wire. Photocell output is high VDC with occupancy & low light.
- For multi-level control, use two power packs and connect White to primary load and Blue to daylight load.



INSTALLATION

- Sensor has rear enclosure, which is beveled so as to be corner mounted at 8-10 ft (2.44-3.05 m); see tilt settings below.
- Mount in corner above entrance door or in a corner along the same wall as the entrance.
- For mounting heights above 10 ft (3.05 m), use the **WV BR** and mount sensor to angled side to provide an initial 30° look down.

TILT ADJUSTMENT Mounting Height Position

- | | |
|-----------|------------------|
| 7' - 8' | Vertical |
| 8' - 9' | Center |
| 9' - 10' | Forward |
| Above 10' | Use WV BR |



CEILING MOUNT BRACKET (WV BR)

The **WV BR** Ceiling Mount Bracket allows the **WV PDT 16** to be mounted in the corner of the area from the ceiling for conditions where mounting to the wall is not possible.



PROGRAMMING

Refer to included instruction card for default settings and directions on programming the sensor via the push-button.



An Acuity Brands Company

WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.

LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.

T069-004P

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 |
|----------------|--------------|----------------|--------------|
| 8940-3651-01 | | | |
| | | | |
| | | | |
| | | | |

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 type="checkbox"/> All sections of appropriate application(s) are completed | <input type="checkbox"/> Proof of payment.* | <input type="checkbox"/> Manufacturer's Spec sheets | <input type="checkbox"/> Energy model/calculations and detailed inputs for Custom applications |
|---|---|---|--|

* 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 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 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 type="checkbox"/> MSD Custom General Worksheet <input 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 checked="" 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 Ohio Premium Motor/Pump/VFD Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.

Is this application: **NEW** (original) or **REVISED** (changes made to original application)

| Building Type – Required (check one) | | |
|--|--|---|
| <input type="checkbox"/> Data Centers | <input type="checkbox"/> Full Service Restaurant | <input type="checkbox"/> Office |
| <input checked="" type="checkbox"/> Education/K-12 | <input type="checkbox"/> Healthcare | <input type="checkbox"/> Public Assembly |
| <input type="checkbox"/> Education Other | <input type="checkbox"/> Industrial | <input type="checkbox"/> Public Order/Safety |
| <input type="checkbox"/> Elder Care/Nursing Home | <input type="checkbox"/> Lodging | <input type="checkbox"/> Religious Worship/Church |
| <input type="checkbox"/> Food Sales/Grocery | <input type="checkbox"/> Retail (Small Box) | <input type="checkbox"/> Service |
| <input type="checkbox"/> Fast Food Restaurant | <input type="checkbox"/> Retail (Big Box) | <input type="checkbox"/> Warehouse |
| <input type="checkbox"/> Other: | | |

| How did you hear about the program? (check one) | | |
|---|--------------------------------------|--------------------------------|
| <input type="checkbox"/> Duke Energy Representative | <input type="checkbox"/> Web Site | <input type="checkbox"/> Radio |
| <input checked="" type="checkbox"/> Contractor / Vendor | <input type="checkbox"/> Other _____ | |

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

| | | | |
|--|---|--|--|
| <input type="checkbox"/> All sections of application | <input type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer | <input type="checkbox"/> Tax ID number for payee | <input type="checkbox"/> Customer/vendor agree to Terms and Conditions |
|--|---|--|--|

| Customer Information | | | | | |
|---|---------------------------|-------------------|--------------|----------|-------|
| Customer/Business | Cincinnati Public Schools | Contact | Don Elbe | | |
| Phone | 614-580-3352 | Account Number | 8940-3651-01 | | |
| Street Address (Where incentive should be mailed) | | 2651 Burnett Ave | | | |
| City | Cincinnati | State | OH | Zip Code | 45219 |
| Installation Street Address | | 5730 Colerain Ave | | | |
| City | Cincinnati | State | OH | Zip Code | 45208 |
| E-mail Address | | | | | |

**Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.*

| Vendor Information | | | | | |
|--------------------|--------------|-----------------------------|----------------|----------|-------|
| Vendor | Plug Smart | Contact | Lucas Dixon | | |
| Phone | 614-580-3352 | Fax | 1-800-518-5576 | | |
| Street Address | | 1275 Kinnear Road Suite 229 | | | |
| City | Columbus | State | OH | Zip Code | 43212 |
| E-mail Address | | | | | |

If Duke Energy has questions about this application, who should we contact? Customer Vendor

| Payment Information | | |
|---|--|--|
| Who should receive incentive payment? | <input checked="" type="checkbox"/> Customer | <input type="checkbox"/> Vendor (Customer must sign below) |
| I hereby authorize payment of incentive directly to the vendor: | Customer Signature (written signature) | |
| | Date | |
| Provide Tax ID Number for Payee | Customer Tax ID # | 31-6000758 |
| | Vendor Tax ID # | 26-2368277 |

| Terms and Conditions | | | |
|--|--------------------|------------------|--------------------|
| I have read and hereby agree to the Terms & Conditions and Program Requirements. | | | |
| Customer Signature | <i>Don Elbe</i> | Vendor Signature | <i>[Signature]</i> |
| Date | 11-23-11 | Date | 11/23/2011 |
| Title | Utility Mgmt Coord | Title | Project Manager |

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

Motor incentives will be removed from the Prescriptive Program effective March 31, 2011. To qualify for the current incentives, motors must be purchased by March 31, 2011 and installed by June 30, 2011. Applications must be received by September 30, 2011.

Certain motors will still be eligible for incentives using the custom program. Please refer to the Duke Energy Mercantile Self Direct website for further detail.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

| Motor | | | | | | | | | | | |
|--------------|-------------------------|----------|---|--|-----------|-------|-------------------------------|--|----------------|-------------------------------------|-----------------|
| Motor | Make/Model or Catalog # | Quantity | Type | RPM | Incentive | HP | Installed Nominal Efficiency* | Annual Operating Hrs (Minimum of 2000) | Equipment Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1-5 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$5/HP | HP | % | Hrs | | | |
| 7.5-20 HP | Baldor EM3311T | 2 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$4/HP | 7.5HP | 91% | 2800Hrs | | 8/19/2008 | \$60.00 |
| 25-100 HP | Baldor EM2535T | 2 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2.50/HP | 30HP | 94.1% | 2800Hrs | | 8/19/2008 | \$150.00 |
| 125 – 250 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2/HP | HP | % | Hrs | | | |

*** See page four for required efficiency levels for motors.**

*Incentive capped at 50% of project cost (equipment and external labor).

- Qualifying motors must be three-phase open drip (ODP) or totally enclosed fan cooled (TEFC) units with nominal speeds of 1200, 1800, or 3600 RPM.
- Efficiencies are to be full-load nominal efficiencies tested in accordance with IEE Standards 112, Method B. Please refer to attached table to determine qualifying efficiencies.
- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor shall be squirrel cage design and conform to NEMA Premium design A, B or C torque characteristics.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Replaced motors shall be disposed of or recycled (not to be resold or rewound).
- Motor(s) and pump(s) must operate a minimum of 2000 hours annually to be eligible.

Motor incentives will be removed from the Prescriptive Program effective March 31, 2011. To qualify for the current incentives, motors must be purchased by March 31, 2011 and installed by June 30, 2011. Applications must be received by September 30, 2011.

Certain motors will still be eligible for incentives using the custom program. Please refer to the Duke Energy Mercantile Self Direct website for further detail.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

| Motor | | | | | | | | | | | |
|--------------|-------------------------|----------|---|--|-----------|------|-------------------------------|--|----------------|-------------------------------------|-----------------|
| Motor | Make/Model or Catalog # | Quantity | Type | RPM | Incentive | HP | Installed Nominal Efficiency* | Annual Operating Hrs (Minimum of 2000) | Equipment Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1-5 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$5/HP | HP | % | Hrs | | | |
| 7.5-20 HP | Baldor EM2515T | 1 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$4/HP | 20HP | 93% | 2800Hrs | | 8/19/2008 | \$80.00 |
| 25-100 HP | Baldor EM2543T | 1 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2.50/HP | 50HP | 94.5% | 2800Hrs | | 8/19/2008 | \$125.00 |
| 125 – 250 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2/HP | HP | % | Hrs | | | |

*** See page four for required efficiency levels for motors.**

*Incentive capped at 50% of project cost (equipment and external labor).

- Qualifying motors must be three-phase open drip (ODP) or totally enclosed fan cooled (TEFC) units with nominal speeds of 1200, 1800, or 3600 RPM.
- Efficiencies are to be full-load nominal efficiencies tested in accordance with IEE Standards 112, Method B. Please refer to attached table to determine qualifying efficiencies.
- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor shall be squirrel cage design and conform to NEMA Premium design A, B or C torque characteristics.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Replaced motors shall be disposed of or recycled (not to be resold or rewound).
- Motor(s) and pump(s) must operate a minimum of 2000 hours annually to be eligible.

Motor incentives will be removed from the Prescriptive Program effective March 31, 2011. To qualify for the current incentives, motors must be purchased by March 31, 2011 and installed by June 30, 2011. Applications must be received by September 30, 2011.

Certain motors will still be eligible for incentives using the custom program. Please refer to the Duke Energy Mercantile Self Direct website for further detail.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

| Motor | | | | | | | | | | | |
|--------------|-------------------------|----------|---|--|-----------|------|-------------------------------|--|----------------|-------------------------------------|-----------------|
| Motor | Make/Model or Catalog # | Quantity | Type | RPM | Incentive | HP | Installed Nominal Efficiency* | Annual Operating Hrs (Minimum of 2000) | Equipment Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1-5 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$5/HP | HP | % | Hrs | | | |
| 7.5-20 HP | Baldor EM2513T | 1 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$4/HP | 15HP | 93% | 2800Hrs | | 8/19/2008 | \$60.00 |
| 25-100 HP | Baldor EM2539T | 1 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2.50/HP | 40HP | 94.1% | 2800Hrs | | 8/19/2008 | \$100.00 |
| 125 – 250 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2/HP | HP | % | Hrs | | | |

* See page four for required efficiency levels for motors.

*Incentive capped at 50% of project cost (equipment and external labor).

- Qualifying motors must be three-phase open drip (ODP) or totally enclosed fan cooled (TEFC) units with nominal speeds of 1200, 1800, or 3600 RPM.
- Efficiencies are to be full-load nominal efficiencies tested in accordance with IEE Standards 112, Method B. Please refer to attached table to determine qualifying efficiencies.
- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor shall be squirrel cage design and conform to NEMA Premium design A, B or C torque characteristics.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Replaced motors shall be disposed of or recycled (not to be resold or rewound).
- Motor(s) and pump(s) must operate a minimum of 2000 hours annually to be eligible.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

| High Efficiency Pumps | | | | | | | | |
|-----------------------|-------------------------|----------|---------------|--|--|----------------|-------------------------------------|-----------------|
| Pump | Make/Model or Catalog # | Quantity | Incentive | Installed Nominal Efficiency* (pump curve) | Annual Operating Hrs (Minimum of 2000) | Equipment Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1.5 HP | | | \$61.00/PUMP | % | Hrs | | | |
| 2 HP | | | \$87.50/PUMP | % | Hrs | | | |
| 3 HP | | | \$87.50/PUMP | % | Hrs | | | |
| 5 HP | | | \$85.00/PUMP | % | Hrs | | | |
| 7.5 HP | | | \$124.50/PUMP | % | Hrs | | | |
| 10 HP | | | \$82.50/PUMP | % | Hrs | | | |
| 15 HP | | | \$145.00/PUMP | % | Hrs | | | |
| 20 HP | | | \$200.00/PUMP | % | Hrs | | | |

*** See on page four for required efficiency levels for pumps. Pump curves are required.**

*Incentive capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Pump efficiency is based on the design point on the pump curve. Documentation of the pump curve is required to receive an incentive.
- The pump efficiency at the design point on the pump curve must meet nominal efficiencies as stated in table on page 4.
- Duplicative to the first bullet point.

The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

| Variable Frequency Drives (VFDs) – For Process Fluid Pumping Only (Retrofit* Application only) | | | | | | | |
|---|-------------------------|----------|--------------|---|--------------|--|-----------------|
| Process pumping <u>does not</u> include HVAC or swimming pool fluid pumping systems. | | | | | | | |
| List Process Pumping Application | | | | | | | |
| VFD** | Make/Model or Catalog # | Quantity | Incentive*** | Annual Operating Hrs (Minimum of 2000) | Project Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 5 HP | | | \$20.00/HP | Hrs | | | |
| 7.5 HP | | | \$20.00/HP | Hrs | | | |
| 10 HP | | | \$20.00/HP | Hrs | | | |
| 15 HP | | | \$20.00/HP | Hrs | | | |
| 20 HP | | | \$20.00/HP | Hrs | | | |
| 25 HP | | | \$20.00/HP | Hrs | | | |
| 30 HP | | | \$20.00/HP | Hrs | | | |
| 40 HP | | | \$20.00/HP | Hrs | | | |
| 50 HP | | | \$20.00/HP | Hrs | | | |
| <p>*Retrofit only – incentives are only available for new VFDs installed on existing fluid process pump systems. ** VFDs over 50 HP and VFDs on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program. Please refer to the custom webpage for guidance. ***Incentives are capped at 50% of project cost (equipment and external labor).</p> | | | | | | | |

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- . Duplicative to the first bullet point.

The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

Variable Frequency Drives (VFDs) – Applied to HVAC Fans Only (Retrofit* Application only)

VFD HVAC Applications (please check one):
 Supply Fan Cooling Tower Fan Return Fan
 Exhaust Fan

| VFD** | Make/Model or Catalog # | Quantity | Incentive*** | Annual Operating Hrs (Minimum of 2000) | Project Cost | Date Installed and Operable (mm/yy) | Total Incentive |
|--------|-------------------------|----------|--------------|--|--------------|-------------------------------------|-----------------|
| 1.5 HP | | | \$50.00/HP | Hrs | | | |
| 2 HP | | | \$50.00/HP | Hrs | | | |
| 3 HP | | | \$50.00/HP | Hrs | | | |
| 5 HP | | | \$50.00/HP | Hrs | | | |
| 7.5 HP | | | \$50.00/HP | Hrs | | | |
| 10 HP | | | \$50.00/HP | Hrs | | | |
| 15 HP | | | \$50.00/HP | Hrs | | | |
| 20 HP | | | \$50.00/HP | Hrs | | | |
| 25 HP | | | \$50.00/HP | Hrs | | | |
| 30 HP | | | \$50.00/HP | Hrs | | | |
| 40 HP | | | \$50.00/HP | Hrs | | | |
| 50 HP | | | \$50.00/HP | Hrs | | | |

* Retrofit only – incentives are only available for new VFDs installed on existing HVAC fan systems.
 **VFDs over 50 HP and VFD's on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program.
 ***Incentives are capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- Duplicative to the first bullet point.

The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

| Variable Frequency Drives (VFDs) – Applied to HVAC Pumps Only (Retrofit* Application only) | | | | | | | |
|--|-------------------------|---|--------------|---|---|--|-----------------|
| VFD HVAC Applications (please check one): | | | | | | | |
| <input type="checkbox"/> Chilled Water Pump | | <input type="checkbox"/> Condenser Pump | | | <input type="checkbox"/> Hot Water Pump | | |
| VFD** | Make/Model or Catalog # | Quantity | Incentive*** | Annual Operating Hrs (Minimum of 2000) | Project Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1.5 HP | | | \$50.00/HP | Hrs | | | |
| 2 HP | | | \$50.00/HP | Hrs | | | |
| 3 HP | | | \$50.00/HP | Hrs | | | |
| 5 HP | | | \$50.00/HP | Hrs | | | |
| 7.5 HP | | | \$50.00/HP | Hrs | | | |
| 10 HP | | | \$50.00/HP | Hrs | | | |
| 15 HP | | | \$50.00/HP | Hrs | | | |
| 20 HP | | | \$50.00/HP | Hrs | | | |
| 25 HP | | | \$50.00/HP | Hrs | | | |
| 30 HP | | | \$50.00/HP | Hrs | | | |
| 40 HP | | | \$50.00/HP | Hrs | | | |
| 50 HP | | | \$50.00/HP | Hrs | | | |
| <p>* Retrofit only – incentives are only available for new VFDs installed on existing HVAC pumps systems.</p> <p>**VFDs over 50 HP and VFDs on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program. Please refer to the custom webpage for guidance.</p> <p>***Incentives are capped at 50% of project cost (equipment and external labor).</p> | | | | | | | |

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- . Duplicative to the first bullet point.

Efficiencies for Premium Motor/Pump Measures

| Nominal Efficiencies for "NEMA Premium" Induction Motors Rated 600 volts or less (random wound) | | | | | | |
|---|-----------------|----------|----------|-----------------------------|----------|----------|
| HP | Open Drip Proof | | | Totally Enclosed Fan-Cooled | | |
| | 1200 RPM | 1800 RPM | 3600 RPM | 1200 RPM | 1800 RPM | 3600 RPM |
| 1 | 82.5 | 85.5 | 77.0 | 82.5 | 85.5 | 77.0 |
| 1.5 | 86.5 | 86.5 | 84.0 | 87.5 | 86.5 | 84.0 |
| 2 | 87.5 | 86.5 | 85.5 | 88.5 | 86.5 | 85.5 |
| 3 | 88.5 | 89.5 | 85.5 | 89.5 | 89.5 | 86.5 |
| 5 | 89.5 | 89.5 | 86.5 | 89.5 | 89.5 | 88.5 |
| 7.5 | 90.2 | 91.0 | 88.5 | 91.0 | 91.7 | 89.5 |
| 10 | 91.7 | 91.7 | 89.5 | 91.0 | 91.7 | 90.2 |
| 15 | 91.7 | 93.0 | 90.2 | 91.7 | 92.4 | 91.0 |
| 20 | 92.4 | 93.0 | 91.0 | 91.7 | 93.0 | 91.0 |
| 25 | 93.0 | 93.6 | 91.7 | 93.0 | 93.6 | 91.7 |
| 30 | 93.6 | 94.1 | 91.7 | 93.0 | 93.6 | 91.7 |
| 40 | 94.1 | 94.1 | 92.4 | 94.1 | 94.1 | 92.4 |
| 50 | 94.1 | 94.5 | 93.0 | 94.1 | 94.5 | 93.0 |
| 60 | 94.5 | 95.0 | 93.6 | 94.5 | 95.0 | 93.6 |
| 75 | 94.5 | 95.0 | 93.6 | 94.5 | 95.4 | 93.6 |
| 100 | 95.0 | 95.4 | 93.6 | 95.0 | 95.4 | 94.1 |
| 125 | 95.0 | 95.4 | 94.1 | 95.0 | 95.4 | 95.0 |
| 150 | 95.4 | 95.8 | 94.1 | 95.8 | 95.8 | 95.0 |
| 200 | 95.4 | 95.8 | 95.0 | 95.8 | 96.2 | 95.4 |
| 250 | 95.4 | 95.8 | 95.0 | 95.8 | 96.2 | 95.8 |

| Nominal Efficiencies for Pumps | |
|--------------------------------|--------------------------------------|
| HP | Efficiency |
| 1.5 | efficiency of 65% or more for system |
| 2 | efficiency of 65% or more for system |
| 3 | efficiency of 67% or more for system |
| 5 | efficiency of 70% or more for system |
| 7.5 | efficiency of 73% or more for system |
| 10 | efficiency of 75% or more for system |
| 15 | efficiency of 77% or more for system |
| 20 | efficiency of 77% or more for system |

Program Requirements

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and its affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties and 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.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application. (Page7)
3. Purchase and install eligible energy-efficient equipment.
4. Complete and submit application for equipment that was installed after 1/1/2008.
5. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
6. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
8. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
8. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

Mercantile Self Direct Incentive Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.

Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to **513-419-5572**.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call **1-866.380.9580** or visit www.duke-energy.com.



Mercantile Self Direct Rebate Program

| Technology | Responsible for sales and not installs* | Responsible for sales and Installation* | Technology | Responsible for sales and not installs* | Responsible for sales and Installation* |
|--|--|--|-------------------|--|--|
| Lighting | <input type="checkbox"/> | <input type="checkbox"/> | Thermal Storage | <input type="checkbox"/> | <input type="checkbox"/> |
| Heating Ventilation & Cooling | <input type="checkbox"/> | <input type="checkbox"/> | Pumps/Motors/VFDs | <input type="checkbox"/> | <input type="checkbox"/> |
| Food Service | <input type="checkbox"/> | <input type="checkbox"/> | Chillers | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Heating | <input type="checkbox"/> | <input type="checkbox"/> | Refrigeration | <input type="checkbox"/> | <input type="checkbox"/> |
| Process Equipment (air compressors, injection molding, etc.) | <input type="checkbox"/> | <input type="checkbox"/> | Window Film | <input type="checkbox"/> | <input type="checkbox"/> |

* Check all that apply

Vendors who wish to be listed as a Mercantile Self Direct Incentive Program participating Vendor shall complete this form. A signed copy of this form must be on file at Duke Energy in order for the Vendor to receive incentive payments. Fax form to **513-419-5572** or email to SelfDirect@duke-energy.com.

I have read and understand the Mercantile Self Direct Incentive Program Requirements for Vendor Participation, and I agree to comply with all requirements set forth therein. By signing this agreement, I agree to provide my customers with information and documentation that is true and accurate to the best of my knowledge. I hereby represent and warrant that the Tax ID and Vendor Tax Status provided below are true and accurate. I agree that any confidential information concerning my customer, including but not limited to Duke Energy service account information, will be used for the sole purpose of facilitating the customer's participation in the Mercantile Self Direct Incentive Program. Further, I understand that I am responsible for making sure everyone working for me understands the requirements prior to soliciting customer participation.

| | |
|------------------------------|--|
| Vendor Federal Tax ID Number | |
|------------------------------|--|

To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a third-party vendor. The third-party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the third-party vendor have signed confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, As you will not be qualified to participate in the incentive program.

| | | | | |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|
| Vendor Tax Status | <input type="checkbox"/> Corporation | <input type="checkbox"/> Individual/Sole Proprietor | <input type="checkbox"/> Partnership | <input type="checkbox"/> Other |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|

| | | | | |
|----------------|--------------------------------|---------------------------------|-------------------------------|--|
| Contact me via | <input type="checkbox"/> Phone | <input type="checkbox"/> E-Mail | <input type="checkbox"/> Mail | |
|----------------|--------------------------------|---------------------------------|-------------------------------|--|

| | |
|--------------------------|--|
| Company Name | |
| Mailing Address | |
| City, State, Zip | |
| Phone/Fax | |
| Primary E-mail Address | |
| Secondary E-mail Address | |
| Vendor Signature | |
| Title | |
| Print Name | |
| Date | |

For more information, call 1-866-380-9580 or visit www.duke-energy.com.

AIR HANDLING UNITS

BASES OF DESIGN: VEHICULAR. REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS
 - WATER TYPE HEATING COIL CAPACITY BASED ON 180°F ENT./80°F LWT.
 - WATER TYPE COOLING COIL CAPACITY BASED ON 44°F ENT./55°F LWT.
 - MOTORS SHALL BE 460V/3Ø UNLESS NOTED OTHERWISE.

| UNIT NUMBER | AHU-1 | AHU-2 | AHU-3 |
|-------------------------------------|---------------|---------------|---------------|
| AREA SERVED | ACADEMIC | ADMIN MEDIA | GYM/CAFE |
| MAXIMUM SYSTEM AIRFLOW (CFM) | 37,000 | 34,000 | 25,000 |
| MINIMUM OA (CFM) | 14,350 | 8,250 | 3,020/ 9,660 |
| CFM | 37,000 | 34,000 | 25,000 |
| S.P. - IN W.G. EXT./TOTAL | 2.0 / 15.8 | 2.5 / 6.0 | 1.5/4.0 |
| WHEEL DIA. IN/OUT | 445 / 1189 | 565 / 1566 | 565 / 1566 |
| WHEEL TYPE / CLASS | AF PLENUM / B | AF PLENUM / B | PLENUM AF / B |
| MOTOR BHP / HP | 44 / 50 | 51.5 / 40 | 25.4 / 30 |
| VOLT / PHASE | 480 / 3 | 480 / 3 | 480 / 3 |
| CFM | 34,000 | 24,000 | |
| S.P. - IN W.G. EXT./TOTAL | 2.5 | 2.5 | |
| WHEEL DIA. IN/OUT | 445 / 916 | 565 / 1086 | |
| WHEEL TYPE / CLASS | PLENUM AF / B | PLENUM AF/B | |
| MOTOR BHP / HP | 25 / 30 | 15 / 20 | |
| VOLT / PHASE | 480 / 3 | 480 / 3 | |
| FACE AREA | 60.42 | 46.5 | 47.02 |
| CAPACITY MBH | 816 | 574 | 121 |
| ENT. AIR TEMP. | 50 | 45 | 35 |
| LVG. AIR TEMP. | 70 | 67 | 66.4 |
| CFM | 36,400 | 34,000 | 25,000 |
| MAX. AIR P.D. - IN W.G. | 0.1 | 0.1 | 0.2 |
| CFM | 55.9 | 58.2 | 76.6 |
| MAX WATER P.D. FT. | 5 | 5 | 6 |
| ROWS - FPI | 1 - 6 | 1 - 6 | 1 - 11 |
| FACE AREA S.F. | 75.5 | 48.75 | 81.25 |
| TOTAL CLG MBH | 1184 | 707.2 | 102.6 |
| SENSIBLE CLG MBH | 954 | 631.9 | 79.2 |
| ENT. AIR TEMP. DEWB | 77.2 / 63.5 | 77.5 / 65.6 | 80.0 / 67 |
| LVG. AIR TEMP. DEWB | 53.0 / 52.4 | 53.0 / 52.5 | 53.0 / 52.6 |
| CFM | 36,400 | 34,000 | 25,000 |
| MAX. AIR P.D. - IN W.G. | 0.8 | 0.8 | 1.0 |
| CFM | 175 | 124 | 157.4 |
| MAX WATER P.D. FT. | 12 | 10 | 12 |
| ROWS - FPI | 8 / 8 | 6 - 11 | 6 - 10 |
| TYPE - FPE | 50 | 50 | 30 |
| TYPE - FINAL | 65 | 65 | 65 |
| MAX VELOCITY (FPM) | 500 | 500 | 500 |
| P.D. IN W.G. PRE-FILTERS, CLANDRITY | 0.2/0.7 | 0.3/0.7 | 0.3/0.7 |
| P.D. IN W.G. FIN-FILTERS, CLANDRITY | 0.5/1.0 | 0.5/1.0 | 0.5/1.0 |
| OUTSIDE AIR - CFM | 14,350 | 8,250 | |
| EXHAUST AIR - CFM | 11,500 | 4,770 | |
| 0.A. E.A.T. - DEWB °F | 80 / 74 | 80 / 74 | |
| 0.A. L.A.T. - DEWB °F | 80.9 / 66.7 | 82.5 / 67.5 | |
| R.A. E.A.T. - DEWB °F | 75 / 62.8 | 75 / 62.5 | |
| R.A. L.A.T. - DEWB °F | 5 / 2 | 5 / 2 | |
| 0.A. E.A.T. - DEWB °F | 51 / 42.9 | 45.1 / 38.9 | |
| R.A. E.A.T. - DEWB °F | 72 / 56.9 | 72 / 56.9 | |
| ENERGY RECOVERED SUMMER (TOT/SEN) | 572 / 176 | 166.7 / 87.9 | |
| ENERGY RECOVERED WINTER (TOT/SEN) | 993 / 666 | 483.2 / 329.3 | |
| MAX. FACE VEL. - FPM | 860 | 800 | |
| MAX. AIR P.D. W.G. OUTSIDE AIR | 0.54 | 0.77 | |
| MAX. AIR P.D. W.G. RELIEF AIR | 0.74 | 0.46 | |
| TOTAL RECOVERY EFFECTIVE, SUMMER | 79 % | 86 % | |
| TOTAL RECOVERY EFFECTIVE, WINTER | 81 % | 86 % | |
| RPEC NOTE | 1, 2, 3 | 1, 2, 3 | 4 |

REQ'D ACCESS:
 1. EMS CONTRACTOR SHALL DISABLE WHEEL OPERATION WHEN UNIT ENTERS ECONOMIZER MODE.
 2. PACKAGED HEAT RECOVERY UNIT WITH SINGLE POINT POWER CONNECTION PACKAGE AND STOP/LOD ECONOMIZER WHEEL CONTROLS, UNIT SHALL BE 480-3Ø. PROVIDE INTEGRAL MOTOR, STARTERS.
 3. VFD FROST CONTROL (BACKNET COMPATIBLE DOCS VFD FOR HEAT WHEEL (2 HP, 460V, 5Ø) BY HEAT WHEEL MANUFACTURER.
 4. HIGH O.A. CFM USE FOR EVENT MODE ONLY CONTROLLED BY EMS.

CHILLER

| TAG | DESCRIPTION | E.W.T. | L.W.T. | GPM | FOULING FACTOR | MAX EVAP. PD (FT. HD.) | TONS | IPLY EFF. | IPLY EFF. | ELECTRICAL DATA VOLTS PHASE MCA MOCP | MFR. ** | MODEL | REQ'D ACCESS. |
|-------|--------------------|--------|--------|-----|----------------|------------------------|------|-----------|-----------|---|---------|---------|---------------|
| ACH-1 | AIR COOLED CHILLER | 58 | 44 | 350 | 0.0001 | 10 | 204 | 15.74 | 15.74 | 460 3 422.9 480 | CARRIER | 30R2B20 | ALL |

REQ'D ACCESS:
 1. FACTORY MOUNTED & WIRED DISCONNECT
 2. COIL TRIM PANEL
 3. SINGLE POINT POWER CONNECTION
 4. WATER FLOW SWITCH
 5. MINIMUM LOAD CONTROL
 6. R404A REFRIGERANT
 7. BORDILL TYPE COMPRESSOR

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

GAS FIRED BOILERS

| TAG | DESCRIPTION | E.W.T. | L.W.T. | GPM | MAX. P.D. FT. | MBH INPUT | MBH OUTPUT | ELECTRICAL AMP @ 200% VOLTS PHASE | OPER. GAS PRESS. IN. WC | MFR. ** | MODEL | REQ'D ACCESS. |
|-----|------------------------|--------|--------|-----|---------------|-----------|------------|--|-------------------------|------------------|------------|---------------|
| B-1 | NATURAL GAS COPPER FIN | 180 | 150 | 165 | 10 | 2,000 | 1,760 | 2.5 / 15 460 3 | 7 | THERMAL-SOLUTION | EVAM-2000B | ALL |
| B-2 | NATURAL GAS COPPER FIN | 180 | 150 | 165 | 10 | 2,000 | 1,760 | 2.5 / 15 460 3 | 7 | THERMAL-SOLUTION | EVAM-2000B | ALL |

REQ'D ACCESS:
 1. MODULATING FIRING CONTROLS
 2. STANDARD DISCONNECT FACTORY MOUNTED & WIRED
 3. FINAL GAS CONNECTION BY FC

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

PUMPS

| TAG | DESCRIPTION | SERVICE | MFR. ** | MODEL | CAPACITY GPM FT. HD. | MOTOR DATA HP VOLTAGE PHASE | RPM | MIN. EFF. % | CONNECTION SIZES SUCT. DISCH. | REQ'D ACCESS. |
|-------|-----------------------------|-------------------------|---------|---------|---------------------------|------------------------------------|------|-------------|------------------------------------|---------------|
| HWP-1 | INLINE | PRIMARY HEATING WATER | TACO | KS-3007 | 160 20 | 1.5 460 3 | 1750 | 64.8 | 3" 3" | - |
| HWP-2 | INLINE | PRIMARY HEATING WATER | TACO | KS-3007 | 165 20 | 1.5 460 3 | 1750 | 64.8 | 3" 3" | - |
| HWP-3 | BASE MOUNTED CLOSED COUPLED | SECONDARY HEATING WATER | TACO | G-2509 | 175 75 | 7.5 460 3 | 1750 | 66.5 | 4" 2 1/2" | 1 |
| SWP-1 | BASE MOUNTED CLOSED COUPLED | SECONDARY CLOAKING PUMP | TACO | G-2509 | 175 75 | 7.5 460 3 | 1750 | 66.5 | 4" 2 1/2" | 1 |
| CWP-1 | INLINE | PRIMARY CHILLED WATER | TACO | KS-4007 | 350 40 | 5 460 3 | 1750 | 80.1 | 4" 4" | - |
| CWP-2 | BASE MOUNTED CLOSED COUPLED | SECONDARY CHILLED WATER | TACO | G-301 | 350 85 | 15 460 3 | 1750 | 74.0 | 4" 3" | 1 |

REQ'D ACCESS:
 1. PROVIDED BY THE PUMP PACKAGE.

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

AIR COOLED CONDENSING UNIT

- DISCONNECT BY ELECTRICAL CONTRACTOR - AMBIENT OUTDOOR TEMP. BASED ON 86°F.
 - 65°F ENT. WB TEMP.

| TAG | SERVICE | REFRIG. LINE SIZES LIQUID SUCTION | CLG. CAPACITY (BTU/H) TOTAL SENS. | ELECTRICAL DATA VOLTS PHASE MOCP | REFRIG. SUCT. TEMP. | NO. OF CIRCUITS | MFR. ** | MODEL | REQ'D ACCESS. |
|------|---------------------|--|-------------------------------------|---|---------------------|-----------------|---------|----------|---------------|
| CU-1 | TECH CONTROL CENTER | 1/2" 7/8" | 50,000 45,000 | 480 3 15 | 40°F | 1 | CARRIER | 380C-080 | ALL |

REQ'D ACCESS:
 1. RUBBER IN SHEAR ISOLATORS
 2. REFRIGERATION SYSTEM CONTROLS INCLUDING CONDENSER FAN, COMPRESSOR CONTACTORS, FIBERGLASS MOUNTING PAD, LOW AMBIENT KIT (307°F).

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

COMPUTER ROOM AIR CONDITIONER (CRAC)

- COOLING CAPACITY BASED ON EAT OF 78.1°F DB / 62.5°F WB, LAT OF 82.0°F DB / 51.3°F WB
 - AMBIENT CONDENSING UNIT TEMPERATURE BASED ON 95°F.

| TAG | TYPE | CFM | COOLING CAPACITY (MBH) TOTAL SENS. | HEATING CAPY (MBH) HTG GPM FT. PD | MIN OA | FAN MOTOR DATA VOLT PHASE HP ESP (IN) | MFR. | MODEL | REQ'D ACCESS. |
|--------|--------------------------|------|--------------------------------------|---------------------------------------|--------|--|---------|----------|---------------|
| CRAC-1 | ABOVE CEILING HORIZONTAL | 1400 | 91.0 35.8 | - - - | - | 120 1 1/2 0.56 | CARRIER | 42 BH-16 | ALL |

REQ'D ACCESS:
 1. EMS MFR'S APPLICATION SPECIFIC CONTROLLER AND ALL AUXILIARY DEVICES AND SENSORS SHALL BE FIELD MOUNTED AND COORDINATED WITH UNIT MANUFACTURER.
 2. DIRECT EXPANSION COIL PACKAGE WITH FACTORY MOUNTED THERMAL EXPANSION VALVE AND EQUALIZING TUBE.
 3. R-13 VIBRATION ISOLATORS.
 4. UL LISTED

ROOF RELIEF/INTAKE VENTILATORS

| TAG | DESCRIPTION | SERVICE | CFM | MAX PD (IN) | THROAT AREA (SQ FT) | THROAT SIZE (INCHES) | THROAT VEL (FPM) | HOOD CAP SIZE (INCHES) | MFR. | MODEL | REQ'D ACCESS. |
|-------|---------------------|------------|--------|-------------|---------------------|----------------------|------------------|------------------------|------|-------|---------------|
| RAV-1 | AHU-1, RELIEF AIR | AHU-1 3000 | 34,200 | 0.2 | 54 | 144x54" | 650 | 149.5 x 59.5 | COOK | TRE | 1,5,4,5 |
| RAV-2 | EXHAUST AIR | GEN. EDI. | 3,000 | - | 54 | 144x54" | - | 149.5 x 59.5 | COOK | TRE | 1,5,4,5 |
| RAV-3 | AHU-3, RELIEF AIR | GYM 1003 | 10,000 | 0.1 | 15 | 72x56" | 550 | 106 x 72 | COOK | GR | 1,2,3,6 |
| RAV-4 | AHU-3, RELIEF AIR | CAFE 1009 | 10,000 | 0.1 | 15 | 72x56" | 550 | 106 x 72 | COOK | GR | 1,2,3,6 |
| IAV-1 | AHU-2,5 O.A. INTAKE | AHU-2, 5 | 50,000 | 0.15 | 50 | 120x60" | 900 | 160 x 120 | COOK | GR | 1,2,3,7 |

REQ'D ACCESS:
 1. ALUMINUM CONSTRUCTION WITH ENAMEL FINISH AND GALVANIZED BIRDSCREEN
 2. 18" HIGH INSULATED ROOF CURB
 3. CUSTOM COLOR BY ARCHITECT
 4. GRAVITY DAMPER BY MANUFACTURER.
 5. SPECIAL ROOF CURB BY G.C.
 6. MOTORIZED DAMPER BY MANUFACTURER (20VOLT) AND WIRED BY EC.
 7. NO DAMPER REQUIRED.

EXPANSION TANKS

| TAG | DESCRIPTION | SERVICE | CFM | MAX PD (IN) | THROAT AREA (SQ FT) | THROAT SIZE (INCHES) | THROAT VEL (FPM) | HOOD CAP SIZE (INCHES) | MFR. | MODEL | REQ'D ACCESS. |
|-----|-------------|---------|-----|-------------|---------------------|----------------------|------------------|------------------------|------|-------|---------------|
|-----|-------------|---------|-----|-------------|---------------------|----------------------|------------------|------------------------|------|-------|---------------|

CustomPack W-2-37i-PP (9344)



| | | | |
|----------------------------|---------------------------|-------------|----------------|
| PROJECT: Cinps Mt. Airy | | | FILE: C419-06 |
| SYSTEM TAG: AHU-1 | DRAWING NUMBER: C41963466 | REVISION: - | TOTAL PAGE: 2 |
| PREPARED BY: André Laroche | | | DATE: 10-25-06 |

| ITEM | DESCRIPTION |
|----------------------------------|---|
| CASING | |
| UNIT TYPE | INDOOR |
| ROOF | 2" THICK INSULATION FLAT ROOF |
| EXTERIOR FINISH | CORROSION RESISTANT PAINT WITH PRIMER (COLOR: VENMAR GREY) |
| INTERIOR FINISH | NO SPECIAL COATING |
| INSULATION | 2" THICK MINERAL WOOL (3.5 pcf), R8.4 |
| FRAME | 12/29/06 - Corrections |
| PANELS (EXT./INT.) | Frame - 10 ga. Galvanized Steel (G90) |
| MIDDLE WALL AND DOORS | Panels - 16 ga. Galvanized Steel (G90) External & 22 ga. |
| DOOR ACCESSORIES | Galvanized Steel (G90) Internal |
| FLOOR / SUB FLOOR | Floor - 12 ga. Galvanized Steel (G90) Floor and 18 ga. |
| DRAIN PAN | Galvanized Steel Sub-floor. |
| BASE | |
| LIFTING ACCESSORIES | |
| NUMBER OF SECTIONS | 4 |
| TOTAL WEIGHT | 18860 LBS |
| WEIGHT PER SECTIONS | SECTION #1: 5840 LBS SECTION #2: 8050 LBS SECTION #3: 1590 LBS SECTION #4: 3380 LBS |
| HEAT EXCHANGER* | |
| HEAT EXCHANGER | ARI CERTIFIED ENTHALPY WHEEL, INNERGYTECH #HWL-T-78 (QTY: 1) |
| ACCESSORIES/OPTIONS: | C/W LABYRINTH SEALS (NO PURGE) |
| SUPPLY FAN* | |
| MODEL | AF-Plenum FAN, MECHANOVENT #3P_445,2 |
| AIRFLOW | 37000 CFM |
| EXTERNAL / TOTAL STATIC PRESSURE | 2 in.wg. / 5.59 in.wg. |
| MOTOR | 50 HP, PREMIUM EFFICIENCY, ODP, 1775 RPM, 326T |
| VIBRATION ISOLATOR | 2" SEISMIC RESTRAINT SPRINGS C/W FLEXIBLE CONNECTIONS |
| ACCESSORIES: | BELT GUARD AND EXTENDED LUBRIFICATION LINES |
| EXHAUST FAN* | |
| MODEL | AF-PLENUM FAN, MECHANOVENT #3P_445,2 |
| AIRFLOW | 34300 CFM |
| EXTERNAL / TOTAL STATIC PRESSURE | 2.5 in.wg. / 3.32 in.wg. |
| MOTOR | 30 HP, PREMIUM EFFICIENCY, ODP, 1770 RPM, 286T |
| VIBRATION ISOLATOR | 2" SEISMIC RESTRAINT SPRINGS C/W FLEXIBLE CONNECTIONS |
| ACCESSORIES: | BELT GUARD AND EXTENDED LUBRIFICATION LINES |
| PRE-FILTERS | |
| SUPPLY PRE-FILTERS | AAF PLEATED FILTERS, 25-30% EFF., 20" x 25" x 2" (QTY: 21) C/W SLIDING RACKS (SIDE ACCESS) |
| ACCESSORIES | DWYER MAGNAHELIC |
| SUPPLY PRE-FILTERS (SECOND SET) | AAF PLEATED FILTERS, 25-30% EFF., 20" x 20" x 2" (QTY: 20); 20" x 25" x 2" (QTY: 5) C/W UNIVERSAL HOLDING FRAMES (UPSTREAM ACCESS) |
| ACCESSORIES | DWYER MAGNAHELIC |
| EXHAUST PRE-FILTERS | AAF PLEATED FILTERS, 25-30% EFF., 24" x 20" x 2" (QTY: 8) C/W UNIVERSAL HOLDING FRAMES (UPSTREAM ACCESS) |
| ACCESSORIES | DWYER MAGNAHELIC |
| FILTERS | |
| SUPPLY FILTERS | AAF HIGH EFF. FILTERS, 60-65% EFF., 20" x 20" x 12" (QTY: 20); 20" x 25" x 12" (QTY: 5) C/W UNIVERSAL HOLDING FRAMES (UPSTREAM ACCESS) |
| ACCESSORIES | DWYER MAGNAHELIC |

CustomPack W-2-24i-PP (9336)




VENMAR CES
COST EFFECTIVE COMMERCIAL VENTILATION

| | | | | | |
|---------------|-----------------|----------------|-------------|----------|---------|
| PROJECT: | | Cinps Mt. Airy | | FILE: | C419-06 |
| SYSTEM TAG: | DRAWING NUMBER: | REVISION: | TOTAL PAGE: | | |
| AHU-2 | C41963467 | - | 2 | | |
| PREPARED BY: | | | | DATE: | |
| André Laroche | | | | 10-25-06 | |

| ITEM | DESCRIPTION |
|----------------------------------|--|
| CASING | |
| UNIT TYPE | INDOOR |
| ROOF | 2" THICK INSULATION FLAT ROOF |
| EXTERIOR FINISH | CORROSION RESISTANT PAINT WITH PRIMER (COLOR: VENMAR GREY) |
| INTERIOR FINISH | NO SPECIAL COATING |
| INSULATION | 2" THICK MINERAL WOOL (3.5 pcf), R8.4 |
| FRAME | 12/29/06 - Corrections |
| PANELS (EXT./INT.) | Frame - 10 ga. Galvanized Steel (G90) |
| MIDDLE WALL AND DOORS | Panels - 16 ga. Galvanized Steel (G90) External & 22 ga. |
| DOOR ACCESSORIES | Galvanized Steel (G90) Internal |
| FLOOR / SUB FLOOR | Floor - 12 ga. Galvanized Steel (G90) Floor and 18 ga. |
| DRAIN PAN | Galvanized Steel Sub-floor. |
| BASE | |
| LIFTING ACCESSORIES | |
| NUMBER OF SECTIONS | 3 |
| TOTAL WEIGHT | 13840 LBS |
| WEIGHT PER SECTIONS | SECTION #1: 4320 LBS SECTION #2: 6210 LBS SECTION #3: 3310 LBS |
| HEAT EXCHANGER* | |
| HEAT EXCHANGER | ARI CERTIFIED ENTHALPY WHEEL, INNERGYTECH #HWL-T-62 (QTY: 1) |
| ACCESSORIES/OPTIONS: | C/W LABYRINTH SEALS (NO PURGE) |
| SUPPLY FAN* | |
| MODEL | AF-Plenum FAN, MECHANOVENT #3P_365,2 |
| AIRFLOW | 24000 CFM |
| EXTERNAL / TOTAL STATIC PRESSURE | 2.5 in.wg. / 5.54 in.wg. |
| MOTOR | 40 HP, PREMIUM EFFICIENCY, ODP, 1775 RPM, 324T |
| VIBRATION ISOLATOR | 2" SEISMIC RESTRAINT SPRINGS C/W FLEXIBLE CONNECTIONS |
| ACCESSORIES: | BELT GUARD AND EXTENDED LUBRIFICATION LINES |
| EXHAUST FAN* | |
| MODEL | AF-PLENUM FAN, MECHANOVENT #3P_365,2 |
| AIRFLOW | 21400 CFM |
| EXTERNAL / TOTAL STATIC PRESSURE | 1.5 in.wg. / 3.12 in.wg. |
| MOTOR | 20 HP, PREMIUM EFFICIENCY, ODP, 1775 RPM, 256T |
| VIBRATION ISOLATOR | 2" SEISMIC RESTRAINT SPRINGS C/W FLEXIBLE CONNECTIONS |
| ACCESSORIES: | BELT GUARD AND EXTENDED LUBRIFICATION LINES |
| PRE-FILTERS | |
| SUPPLY PRE-FILTERS | AAF PLEATED FILTERS, 25-30% EFF., 20" x 20" x 2" (QTY: 18) C/W SLIDING RACKS (SIDE ACCESS) |
| ACCESSORIES | DWYER MAGNAHELIC |
| SUPPLY PRE-FILTERS (SECOND SET) | AAF PLEATED FILTERS, 25-30% EFF., 20" x 20" x 2" (QTY: 8); 20" x 25" x 2" (QTY: 8) C/W UNIVERSAL HOLDING FRAMES (UPSTREAM ACCESS) |
| ACCESSORIES | DWYER MAGNAHELIC |
| EXHAUST PRE-FILTERS | AAF PLEATED FILTERS, 25-30% EFF., 16" x 25" x 2" (QTY: 6) C/W UNIVERSAL HOLDING FRAMES (UPSTREAM ACCESS) |
| ACCESSORIES | DWYER MAGNAHELIC |
| FILTERS | |
| SUPPLY FILTERS | AAF HIGH EFF. FILTERS, EFF., 20" x 20" x 12" (QTY: 8); 20" x 25" x 12" (QTY: 8) C/W UNIVERSAL HOLDING FRAMES (UPSTREAM ACCESS) |
| ACCESSORIES | DWYER MAGNAHELIC |

CustomPack A-2-25i-PP (9333)

| | | | |
|--|--|---------------------------|----------------|
|  VENMAR CES <small>LOWEST-EFFECTIVE COMMERCIAL VENTILATION</small> | PROJECT: Cinps Mt. Airy | | FILE: C419-06 |
| | SYSTEM TAG: AHU-3 | DRAWING NUMBER: C41963468 | REVISION: - |
| | PREPARED BY: André Laroche | | TOTAL PAGE: 1 |
| | | | DATE: 10-25-06 |
| ITEM | DESCRIPTION | | |
| CASING | | | |
| UNIT TYPE | INDOOR | | |
| ROOF | 2" THICK INSULATION FLAT ROOF | | |
| EXTERIOR FINISH | CORROSION RESISTANT PAINT WITH PRIMER (COLOR: VENMAR GREY) | | |
| INTERIOR FINISH | NO SPECIAL COATING | | |
| INSULATION | 2" THICK MINERAL WOOL (3.5 pcf), R8.4 | | |
| FRAME | 12/29/06 - Corrections | | |
| PANELS (EXT./INT.) | Frame - 10 ga. Galvanized Steel (G90) | | |
| MIDDLE WALL AND DOORS | Panels - 16 ga. Galvanized Steel (G90) External & 22 ga. | | |
| DOOR ACCESSORIES | Galvanized Steel (G90) Internal | | |
| FLOOR / SUB FLOOR | Floor - 12 ga. Galvanized Steel (G90) Floor and 18 ga. | | |
| DRAIN PAN | Galvanized Steel Sub-floor. | | |
| BASE | | | |
| LIFTING ACCESSORIES | | | |
| NUMBER OF SECTIONS | 1 | | |
| TOTAL WEIGHT | 8230 LBS | | |
| SUPPLY FAN* | | | |
| MODEL | AF-Plenum FAN, MECHANOVENT #365,2 | | |
| AIRFLOW | 25000 CFM | | |
| EXTERNAL / TOTAL STATIC PRESSURE | 2.5 in.wg. / 4.79 in.wg. ← 12/29/06 - Correction 1.5 in.wg. / 4.79 in.wg. | | |
| MOTOR | 30 HP, PREMIUM EFFICIENCY, ODP, 1770 RPM, 286T | | |
| VIBRATION ISOLATOR | 2" SEISMIC RESTRAINT SPRINGS C/W FLEXIBLE CONNECTIONS | | |
| ACCESSORIES: | BELT GUARD AND EXTENDED LUBRICATION LINES | | |
| PRE-FILTERS | | | |
| SUPPLY PRE-FILTERS | AAF PLEATED FILTERS, 25-30% EFF., 20" x 20" x 2" (QTY: 8); 20" x 25" x 2" (QTY: 8) C/W UNIVERSAL HOLDING FRAMES (UPSTREAM ACCESS) | | |
| ACCESSORIES | DWYER MAGNAHELIC | | |
| FILTERS | | | |
| SUPPLY FILTERS | AAF HIGH EFF. FILTERS, 60-65% EFF., 20" x 20" x 12" (QTY: 8); 20" x 25" x 12" (QTY: 8) C/W UNIVERSAL HOLDING FRAMES (UPSTREAM ACCESS) | | |
| ACCESSORIES | DWYER MAGNAHELIC | | |
| DAMPER | | | |
| OUTSIDE AIR DAMPER | NON-INSULATED: MOTORIZED, OPPOSED BLADES, A, 60" W x 53" H (QTY: 1) | | |
| RETURN | NON-INSULATED: MOTORIZED, OPPOSED BLADES, 80" W x 27" H (QTY: 1) | | |
| HEATING COIL* | | | |
| HOT WATER COIL | VENTROL #5WC-2-42X82X1-10AL (QTY: 2) | | |
| COOLING COIL* | | | |
| CHILLED WATER COIL | VENTROL #5WC-10-45X82X6-10AL (QTY: 2) | | |
| ELECTRICAL | | | |
| VOLTAGE (Volt/Ph./Hz) | 460/3/60 | | |

*See attached performance sheets for details



**RAMSAY-COHRON
MECHANICAL EQUIPMENT, INC.**

11275 Sebring Drive Cincinnati, Ohio 45240
(513) 742-1110 FAX (513) 742-1399
1 (800) 333-RCME

SUBMITTAL SCHEDULE

| MOTOR DATA | | | | DRIVE DATA | |
|------------|--|--|--|------------|--|
|------------|--|--|--|------------|--|

| TAG # | HP | AMPS | VOLT | MODEL # | VOLT |
|--------|-----|------|-------|--------------------------|-------|
| AHU-1S | 50 | * | 480/3 | 883958EPG4VYA07B08A09-CB | 480/3 |
| AHU-2S | 40 | * | 480/3 | 883958ENG4VYA07B08A09-CB | 480/3 |
| AHU-3S | 30 | * | 480/3 | 883958EMG4VYA07B08A09-CB | 480/3 |
| AHU-1R | 30 | * | 480/3 | 883958EMG4VYA07B08A09-CB | 480/3 |
| AHU-2R | 20 | * | 480/3 | 883958EKG4VYA07B08A09-CB | 480/3 |
| CWP-2 | 15 | * | 480/3 | 883958EJG4VYA07B08A09-CB | 480/3 |
| HWP-3 | 7.5 | * | 480/3 | 883958EGG4VYA07B08A09-CB | 480/3 |
| SWP-1 | 7.5 | * | 480/3 | 883958EGG4VYA07B08A09-CB | 480/3 |

* Please Advise – Mechanical Contractor and Equipment Supplier to Verify Motor FLA's Before Order is released.

ALL MOTORS MUST BE SUPPLIED AS PREMIUM EFFICIENCY/INVERTER DUTY FOR VFD APPLICATIONS

THE ABOVE TO INCLUDE:

- Dual rating – Variable torque rated (110% OI./1 minute)
- Motor Auto Tuning for optimum energy savings
 - Full Dynamic Tuning (spinning motor)
 - Static Tuning (loaded motor, no spinning)
 - On-Line Tuning (continuous tuning while running)
- NEMA 1 Enclosure
- -10° C to 50° C (14° F to 122° F)
- Saflink compatible
- Dynamic braking built in 15 HP and below
- Soft switching output to eliminate output filters
- 2 second control power ride-through
- Serial communication (RS485 Modbus standard)
- +/- 0-10 Vdc or 4-20 mA reference inputs
- Programmable I/O



Product Quick Search
 EM3311T Go

[WHERE TO BUY](#) | [CONTACT US](#) | [SITE MAP](#)

HOME
PRODUCTS
SUPPORT
NEWS/EVENTS
ABOUT BALDOR

General Information

- [Overview](#)
- [Specifications](#)
- [Performance Data](#)
- [Parts List](#)
- [Drawings](#)

More Information

- [Where To Buy](#)
- [Baldor Sales Offices](#)

◀ [Return to List](#)

[AC Motors](#) | [Premium Efficient](#) | [7.5 HP](#) | [1400-1800 RPM](#) |

Specifications: EM3311T

| | |
|------------------------|---------------|
| SPEC. NUMBER: | 37F614S520G1 |
| CATALOG NUMBER: | EM3311T |
| FL AMPS: | 20.4-19.4/9.7 |
| 208V AMPS: | -- |
| BEARING-DRIVE-END: | 6307 |
| BEARING-OPP-DRIVE-END: | 6206 |
| DESIGN CODE: | A |
| DOE-CODE: | 010A |
| FL EFFICIENCY: | 91 |
| ENCLOSURE: | OPSB |
| FRAME: | 213T |
| HERTZ: | 60 |
| INSULATION-CLASS: | F |
| KVA-CODE: | J |
| SPEED [rpm]: | 1770 |
| OUTPUT [hp]: | 7.5 |
| PHASE: | 3 |
| POWER-FACTOR: | 79 |
| RATING: | 40C AMB-CONT |
| SERIAL-NUMBER: | -- |
| SERVICE FACTOR: | 1.15 |
| VOLTAGE: | 208-230/460 |

* For certified information, contact your local [Baldor office](#).

[Home](#) | [Products](#) | [Support](#) | [News/Events](#) | [About Baldor](#) | [RSS](#)  | [YouTube](#) 

Copyright © 2001-2011 Baldor Electric Company. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)

1 of 1

11/14/2011 12:09 PM



Product Quick Search
 EM2513T Go

[WHERE TO BUY](#) | [CONTACT US](#) | [SITE MAP](#)

HOME
PRODUCTS
SUPPORT
NEWS/EVENTS
ABOUT BALDOR

General Information

- [Overview](#)
- [Specifications](#)
- [Performance Data](#)
- [Parts List](#)
- [Drawings](#)

More Information

- [Where To Buy](#)
- [Baldor Sales Offices](#)

◀ [Return to List](#)

[AC Motors](#) | [Premium Efficient](#) | [15 HP](#) | [1400-1800 RPM](#) |

Specifications: EM2513T

| | |
|------------------------|--------------|
| SPEC. NUMBER: | 39K057W916 |
| CATALOG NUMBER: | EM2513T |
| FL AMPS: | 35.4/17.7 |
| 208V AMPS: | 37.4 |
| BEARING-DRIVE-END: | 6309 |
| BEARING-OPP-DRIVE-END: | 6208 |
| DESIGN CODE: | B |
| DOE-CODE: | 010A |
| FL EFFICIENCY: | 93 |
| ENCLOSURE: | OPSB |
| FRAME: | 254T |
| HERTZ: | 60 |
| INSULATION-CLASS: | F |
| KVA-CODE: | G |
| SPEED [rpm]: | 1765 |
| OUTPUT [hp]: | 15 |
| PHASE: | 3 |
| POWER-FACTOR: | 86 |
| RATING: | 40C AMB-CONT |
| SERIAL-NUMBER: | -- |
| SERVICE FACTOR: | 1.15 |
| VOLTAGE: | 230/460 |

* For certified information, contact your local [Baldor office](#).

[Home](#) | [Products](#) | [Support](#) | [News/Events](#) | [About Baldor](#) | [RSS](#)  | [YouTube](#) 

Copyright © 2001-2011 Baldor Electric Company. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)



Product Quick Search
 EM2515T Go

[WHERE TO BUY](#) | [CONTACT US](#) | [SITE MAP](#)

HOME
PRODUCTS
SUPPORT
NEWS/EVENTS
ABOUT BALDOR

General Information

- [Overview](#)
- [Specifications](#)
- [Performance Data](#)
- [Parts List](#)
- [Drawings](#)

More Information

- [Where To Buy](#)
- [Baldor Sales Offices](#)

◀ [Return to List](#)

[AC Motors](#) | [Premium Efficient](#) | [20 HP](#) | [1400-1800 RPM](#) |

Specifications: EM2515T

| | | |
|------------------------|--------------|--|
| SPEC. NUMBER: | 39K057W915 | |
| CATALOG NUMBER: | EM2515T | |
| FL AMPS: | 47/23.5 | |
| 208V AMPS: | 49.4 | |
| BEARING-DRIVE-END: | 6309 | |
| BEARING-OPP-DRIVE-END: | 6208 | |
| DESIGN CODE: | B | |
| DOE-CODE: | 010A | |
| FL EFFICIENCY: | 93 | |
| ENCLOSURE: | OPSB | |
| FRAME: | 256T | |
| HERTZ: | 60 | |
| INSULATION-CLASS: | F | |
| KVA-CODE: | H | |
| SPEED [rpm]: | 1765 | |
| OUTPUT [hp]: | 20 | |
| PHASE: | 3 | |
| POWER-FACTOR: | 86 | |
| RATING: | 40C AMB-CONT | |
| SERIAL-NUMBER: | -- | |
| SERVICE FACTOR: | 1.15 | |
| VOLTAGE: | 230/460 | |

* For certified information, contact your local [Baldor office](#).



Product Quick Search
EM2535T



WHERE TO BUY | CONTACT US | SITE MAP

- HOME
- PRODUCTS
- SUPPORT
- NEWS/EVENTS
- ABOUT BALDOR

General Information

- Overview
- Specifications
- Performance Data
- Parts List
- Drawings
- More Information
- Where To Buy
- Baldor Sales Offices
- Return to List

[AC Motors](#) | [Premium Efficient](#) | [30 HP](#) | [1400-1800 RPM](#) |

Specifications: EM2535T

| | |
|--------------------------|--------------|
| 208V AMPS: | 74.1 |
| BEARING-DRIVE-END: | 6311 |
| BEARING-OPP-DRIVE-END: | 6309 |
| CUSTOMER-PART-NUMBER: | -- |
| DESIGN CODE: | B |
| DOE-CODE: | 010A |
| FL EFFICIENCY: | 94.1 |
| ENCLOSURE: | OPSB |
| FRAME: | 286T |
| GREASE: | POLYREX EM |
| HERTZ: | 60 |
| CATALOG NUMBER: | EM2535T |
| SPEC. NUMBER: | 40G048W942 |
| INSULATION-CLASS: | F |
| KVA-CODE: | G |
| MAX. SPACE HEATER TEMP.: | -- |
| SPEED [rpm]: | 1770 |
| OUTPUT [hp]: | 30 |
| PHASE: | 3 |
| POWER-FACTOR: | 85 |
| RATING: | 40C AMB-CONT |
| SERIAL-NUMBER: | -- |
| SERVICE FACTOR: | 1.15 |
| SPACE-HEATER-AMPS: | -- |
| SPACE-HEATER-VOLTS: | -- |
| VOLTAGE: | 230/460 |
| FL AMPS: | 70/35 |

* For certified information, contact your local [Baldor office](#).

[Home](#) | [Products](#) | [Support](#) | [News/Events](#) | [About Baldor](#) | [RSS](#) | [YouTube](#)

Copyright © 2001-2011 Baldor Electric Company. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)



Product Quick Search
EM2539T



[WHERE TO BUY](#) | [CONTACT US](#) | [SITE MAP](#)

- HOME
- PRODUCTS
- SUPPORT
- NEWS/EVENTS
- ABOUT BALDOR

General Information

- [Overview](#)
- [Specifications](#)
- [Performance Data](#)
- [Parts List](#)
- [Drawings](#)
- More Information**
- [Where To Buy](#)
- [Baldor Sales Offices](#)
- ◀ [Return to List](#)

[AC Motors](#) | [Premium Efficient](#) | [40 HP](#) | [1400-1800 RPM](#) |

Specifications: EM2539T

| | |
|--------------------------|--------------|
| 208V AMPS: | 99 |
| BEARING-DRIVE-END: | 6312 |
| BEARING-OPP-DRIVE-END: | 6309 |
| CUSTOMER-PART-NUMBER: | -- |
| DESIGN CODE: | A |
| DOE-CODE: | 010A |
| FL EFFICIENCY: | 94.1 |
| ENCLOSURE: | OPSB |
| FRAME: | 324T |
| GREASE: | POLYREX EM |
| HERTZ: | 60 |
| CATALOG NUMBER: | EM2539T |
| SPEC. NUMBER: | 40J002X166G1 |
| INSULATION-CLASS: | F |
| KVA-CODE: | H |
| MAX. SPACE HEATER TEMP.: | -- |
| SPEED [rpm]: | 1770 |
| OUTPUT [hp]: | 40 |
| PHASE: | 3 |
| POWER-FACTOR: | 82 |
| RATING: | 40C AMB-CONT |
| SERIAL-NUMBER: | -- |
| SERVICE FACTOR: | 1.15 |
| SPACE-HEATER-AMPS: | -- |
| SPACE-HEATER-VOLTS: | -- |
| VOLTAGE: | 230/460 |
| FL AMPS: | 98/49 |

* For certified information, contact your local [Baldor office](#).

[Home](#) | [Products](#) | [Support](#) | [News/Events](#) | [About Baldor](#) | [RSS](#) | [YouTube](#)

Copyright © 2001-2011 Baldor Electric Company. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)



Product Quick Search
EM2543T



WHERE TO BUY | CONTACT US | SITE MAP

- HOME
- PRODUCTS
- SUPPORT
- NEWS/EVENTS
- ABOUT BALDOR

General Information

- Overview
- Specifications
- Performance Data
- Parts List
- Drawings
- More Information
 - Where To Buy
 - Baldor Sales Offices
- Return to List

[AC Motors](#) | [Premium Efficient](#) | [50 HP](#) | [1400-1800 RPM](#) |

Specifications: EM2543T

| | |
|--------------------------|--------------|
| 208V AMPS: | 121 |
| BEARING-DRIVE-END: | 6312 |
| BEARING-OPP-DRIVE-END: | 6311 |
| CUSTOMER-PART-NUMBER: | -- |
| DESIGN CODE: | B |
| DOE-CODE: | 010A |
| FL EFFICIENCY: | 94.5 |
| ENCLOSURE: | OPSB |
| FRAME: | 326T |
| GREASE: | POLYREX EM |
| HERTZ: | 60 |
| CATALOG NUMBER: | EM2543T |
| SPEC. NUMBER: | 42F056W387 |
| INSULATION-CLASS: | F |
| KVA-CODE: | G |
| MAX. SPACE HEATER TEMP.: | -- |
| SPEED [rpm]: | 1775 |
| OUTPUT [hp]: | 50 |
| PHASE: | 3 |
| POWER-FACTOR: | 87 |
| RATING: | 40C AMB-CONT |
| SERIAL-NUMBER: | -- |
| SERVICE FACTOR: | 1.15 |
| SPACE-HEATER-AMPS: | -- |
| SPACE-HEATER-VOLTS: | -- |
| VOLTAGE: | 230/460 |
| FL AMPS: | 114/57 |

* For certified information, contact your local [Baldor office](#).

[Home](#) | [Products](#) | [Support](#) | [News/Events](#) | [About Baldor](#) | [RSS](#) | [YouTube](#)

Copyright © 2001-2011 Baldor Electric Company. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)

March 2, 2012



To whom it may concern:

This letter is to confirm that for the renovation to Cincinnati Public school Mount Airy (5730 Colerain), for the custom rebate application, the lighting and HRW project were installed with a minimum unit cost listed below.

| DESCRIPTION | QUANTITY | PRICE/FIXTURE | AMOUNT |
|---|----------|---------------|-------------|
| C1 - Metalux DIMN-232 | 19 | \$94.00 | \$1,786.00 |
| B2 - Metalux 2GC8 232A125 | 50 | \$90.00 | \$4,500.00 |
| B3 - Metalux 2GC8 332A125 | 724 | \$95.00 | \$68,780.00 |
| B7 - Metalux 2RDI - 332RP | 16 | \$183.00 | \$2,928.00 |
| H1 - Metalux 2HB 632G | 35 | \$78.00 | \$2,730.00 |
| B10 - Focal Point FSK 4T5HO | 24 | \$115.00 | \$2,760.00 |
| F4 - Portfolio HD7-7701 | 16 | \$52.00 | \$832.00 |
| F1 - Portfolio C7226E-7251 | 19 | \$94.00 | \$1,786.00 |
| B5 - Metalux 2RDI 2BX40RP | 8 | \$187.00 | \$1,496.00 |
| B8 - Metalux 2RDI 2BX40RP | 4 | \$187.00 | \$748.00 |
| NovelAire ECW 844 Energy Conservation Wheel | 2 | \$8,000.00 | \$16,000.00 |

| | |
|--------------|---------------------|
| TOTAL | \$104,346.00 |
|--------------|---------------------|

This is also to confirm that for the renovation to Mount Airy (5730 Colerain), for the prescriptive rebate application, occupancy sensors and motors were installed with a minimum unit cost listed below.

| DESCRIPTION | Model Number | QUANTITY | Nominal Size (Tons) | PRICE/FIXTURE | AMOUNT |
|-----------------------------|----------------------|----------|---------------------|---------------|-------------|
| SelfDirect Occupancy Sensor | CM-PDT-10, WV-PDT-16 | 133 | - | \$117.89 | \$15,679.37 |
| SelfDirect Motor | Baldor EM3311T | 2 | - | \$1,220.00 | \$2,440.00 |
| SelfDirect Motor | Baldor EM2535T | 2 | - | \$3,052.00 | \$6,104.00 |
| SelfDirect Motor | Baldor EM2515T | 1 | - | \$2,290.00 | \$2,290.00 |
| SelfDirect Motor | Baldor EM2543T | 1 | - | \$4,394.00 | \$4,394.00 |
| SelfDirect Motor | Baldor EM2513T | 1 | - | \$2,091.00 | \$2,091.00 |

| | | | | | |
|------------------|----------------|---|---|------------|------------|
| SelfDirect Motor | Baldor EM2539T | 1 | - | \$3,982.00 | \$3,982.00 |
|------------------|----------------|---|---|------------|------------|

| | |
|--------------|--------------------|
| TOTAL | \$36,980.37 |
|--------------|--------------------|

Thank you for your attention to this matter,



Don Elbe
Utility Management Coordinator

Turner  **TYS**
Rebuilding Cincinnati Public Schools

May 21, 2008

Angie Tolle
Cincinnati Public Schools
2315 Iowa Avenue
Cincinnati, OH 45206

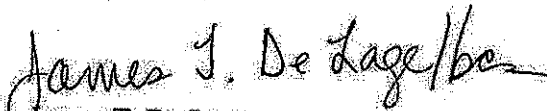
Dear Angie:

Attached are Pay Applications for the Mt. Airy School, please process for payment.

| Contractor | Application # | Monthly Billing | Total Billing To Date | Contract Amount to Date |
|----------------|---------------|-----------------|-----------------------|-------------------------|
| BP#5 ESI, Inc. | #20 | \$ 45,614.40 | \$1,889,005.00 | \$ 1,889,005.00 |

Please call if you have any questions.

Sincerely,
TURNER/DAG/TYS



James T. De Lage
Project Executive

/bcs

Attachments

cc: Derek Howard - DH Architects
Kim Scott - Turner/DAG/TYS
File 0025 - 10960PA

T:PROJECTS/Mt. Airy/00250 Pay Application/2008-05-21 ESI Pay App. Ltr. Doc

The Ohio School Facilities Commission
 10 West Broad Street
 Suite 1400
 Columbus, Ohio 43215

Contractor's Name: **ESI, INC**
 Address: **4696 DEVITT DRIVE**
CINCINNATI, OHIO 45246

Contractor Pay Application Summary

Project Name MT AIRY SCHOOL
Bid Package No. # 5

| | | | |
|----|---|----|--------------|
| 1 | Original Contract Amount | \$ | 1,869,000.00 |
| 2 | Net Changes to Date | \$ | 20,005.00 |
| 3 | Current Contract Amount | \$ | 1,889,005.00 |
| 4 | Labor Completed to Date | \$ | 752,130.00 |
| 5 | Material Completed to Date | \$ | 1,136,875.00 |
| 6 | Total Work Completed to Date | \$ | 1,889,005.00 |
| 7 | Store Material to Date | \$ | |
| 8 | Less Retained to Date | \$ | |
| 9 | Total Amount Due | \$ | 1,889,005.00 |
| 10 | Less Previous Payments | \$ | 1,843,390.60 |
| 11 | Less Amount Retained to Cover Lien | \$ | |
| 12 | Less Amount Retained for Liquidated Damages | \$ | |
| 13 | Less Other Amounts Withheld | \$ | |
| 14 | Current Due | \$ | 45,614.40 |
| 15 | Balance to Complete | \$ | |

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:

BOARD OF EDUCATION OF THE
CINCINNATI PUBLIC SCHOOL DISTRICT

PROJECT:

MT AIRY SCHOOL
5730 COLERAIN AVE
CINCINNATI, OH 45206

APPLICATION NO:

PERIOD TO:

20
04/30/08

PROJECT NOS:

CONTRACT DATE:

FROM CONTRACTOR:

ESI, INC
4696 DEWITT DRIVE
CINCINNATI, OHIO 45246

VIA ARCHITECT:

CONTRACT FOR:

BID PKG # 5

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.....\$ 1,889,005.00
- 2. Net Change by Change Orders.....\$ 20,005.00
- 3. CONTRACT SUM TO DATE.....\$ 1,889,005.00
- 4. TOTAL COMPLETED & STORED TO DATE.....\$ 1,889,005.00
- 5. RETAINAGE
 - a. 8-50% of Completed Labor.....\$
 - b. 8% of Stored Material.....\$
 - Total Retainage.....\$

6. TOTAL EARNED LESS RETAINAGE.....\$ 1,889,005.00

7. LESS PREVIOUS CERTIFICATES FOR PAYMENT.....\$ 1,843,390.60

8. CURRENT PAYMENT DUE.....\$ 45,614.40

9. BALANCE TO FINISH, INCLUDING RETAINAGE.....\$

| Change Order/Contract | ADDITIONS | DEDUCTIONS |
|--|------------------|--------------------|
| Total Changes approved in Previous months by Owner | 25,716.00 | (12,741.00) |
| Total approved this month | 8,525.00 | (1,495.00) |
| TOTALS | 34,241.00 | (14,236.00) |
| NET CHANGES by Change Order | | 20,005.00 |

The Contractor certifies 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.

Contractor [Signature] Date 4/30/08

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

Architect [Signature] Date 5-15-08

Construction Manager [Signature] Date 5/2/08

Approved:

School District Treasurer _____ Date _____

Application and Certificate For Payment -- page 2

To Owner: TURNER DAG TYS
 From (Contractor): ESI, INC.
 Project: MT AIRY SCHOOL

Application No: 20 Date: 04/28/08
 Contractor's Job Number: 65606
 Architect's Project No:

| Item Number | Description | Scheduled Value | Week Completed | | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|-------------|--------------------------------|-----------------|----------------------|-------------|------|----------------------------|------------------------------|------|-------------------|-----------|------|
| | | | Previous Application | This Period | | | | | | | |
| 001 | GENERAL CONDITIONS | 84,000.00 | 84,000.00 | 0.00 | 0.00 | 84,000.00 | 100.00 | 0.00 | 0.00 | | |
| 002 | BOND INSURANCE | 23,000.00 | 23,000.00 | 0.00 | 0.00 | 23,000.00 | 100.00 | 0.00 | 0.00 | | |
| 003 | CLOSE OUT | 6,000.00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 100.00 | 0.00 | 0.00 | | |
| 004 | MOBILIZATION | 47,000.00 | 47,000.00 | 0.00 | 0.00 | 47,000.00 | 100.00 | 0.00 | 0.00 | | |
| 005 | COORDINATION | 62,000.00 | 62,000.00 | 0.00 | 0.00 | 62,000.00 | 100.00 | 0.00 | 0.00 | | |
| 006 | L-FIELD SUPERVISION | 38,000.00 | 38,000.00 | 0.00 | 0.00 | 38,000.00 | 100.00 | 0.00 | 0.00 | | |
| 007 | L-CLEAN UP | 30,000.00 | 30,000.00 | 0.00 | 0.00 | 30,000.00 | 100.00 | 0.00 | 0.00 | | |
| 008 | L-CONTINGENCY ALLOWANCE | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | | |
| 009 | L-TEMPORARY ELECTRIC | 35,000.00 | 35,000.00 | 0.00 | 0.00 | 35,000.00 | 100.00 | 0.00 | 0.00 | | |
| 010 | L-SITE WORK | 45,000.00 | 45,000.00 | 0.00 | 0.00 | 45,000.00 | 100.00 | 0.00 | 0.00 | | |
| 011 | L-SWITCHGEAR#20 430 440 455#70 | 11,000.00 | 11,000.00 | 0.00 | 0.00 | 11,000.00 | 100.00 | 0.00 | 0.00 | | |
| 012 | M-SWITCHGEAR#20 430 440 455#70 | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00 | 0.00 | 0.00 | | |
| 013 | L-LUMINAIRES 18501 | 55,000.00 | 55,000.00 | 0.00 | 0.00 | 55,000.00 | 100.00 | 0.00 | 0.00 | | |
| 014 | M-LUMINAIRES 18501 | 180,000.00 | 180,000.00 | 0.00 | 0.00 | 180,000.00 | 100.00 | 0.00 | 0.00 | | |
| 015 | L-FIRE ALARM 18721 | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | | |
| 016 | M-FIRE ALARM 18721 | 13,000.00 | 13,000.00 | 0.00 | 0.00 | 13,000.00 | 100.00 | 0.00 | 0.00 | | |
| 017 | L-WIRING DEVICES 18240 | 4,000.00 | 4,000.00 | 0.00 | 0.00 | 4,000.00 | 100.00 | 0.00 | 0.00 | | |
| 018 | M-WIRING DEVICES 18240 | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | | |
| 019 | L-CONDUIT/FITTINGS 18200 | 155,800.00 | 155,800.00 | 0.00 | 0.00 | 155,800.00 | 100.00 | 0.00 | 0.00 | | |
| 020 | M-CONDUIT/FITTINGS 18200 | 256,200.00 | 256,200.00 | 0.00 | 0.00 | 256,200.00 | 100.00 | 0.00 | 0.00 | | |
| 021 | L-WIRE/CABLE 18220 | 75,000.00 | 75,000.00 | 0.00 | 0.00 | 75,000.00 | 100.00 | 0.00 | 0.00 | | |
| 022 | M-WIRE/CABLE 18220 | 125,000.00 | 125,000.00 | 0.00 | 0.00 | 125,000.00 | 100.00 | 0.00 | 0.00 | | |
| 023 | L-GENERATORS/ATS 18621 | 2,500.00 | 2,500.00 | 0.00 | 0.00 | 2,500.00 | 100.00 | 0.00 | 0.00 | | |
| 024 | M-GENERATORS/ATS 18621 | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | | |
| 025 | L-TVSS 16480 | 1,200.00 | 1,200.00 | 0.00 | 0.00 | 1,200.00 | 100.00 | 0.00 | 0.00 | | |
| 026 | M-TVSS 16480 | 4,000.00 | 4,000.00 | 0.00 | 0.00 | 4,000.00 | 100.00 | 0.00 | 0.00 | | |

Application and Certificate For Payment -- page 3

To Owner: TURNER DAG TYS
 From (Contractor): ESI, INC.
 Project: MT AIRY SCHOOL

Application No: 20 Date: 04/28/08
 Contractor's Job Number: 65606
 Architect's Project No:

| Item Number | Description | Scheduled Value | Work Completed | | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|-------------|---------------------------|-----------------|----------------------|-------------|------|----------------------------|------------------------------|------|-------------------|-----------|------|
| | | | Previous Application | This Period | | | | | | | |
| 027 | L- CABLE TRAY 16210 | 1,800.00 | 1,800.00 | 0.00 | 0.00 | 1,800.00 | 100.00 | 0.00 | 0.00 | | |
| 028 | M- CABLE TRAY 16210 | 12,000.00 | 12,000.00 | 0.00 | 0.00 | 12,000.00 | 100.00 | 0.00 | 0.00 | | |
| 029 | L- COMM CABLING 17800 | 35,000.00 | 35,000.00 | 0.00 | 0.00 | 35,000.00 | 100.00 | 0.00 | 0.00 | | |
| 030 | M- COMM CABLING 17800 | 100,000.00 | 100,000.00 | 0.00 | 0.00 | 100,000.00 | 100.00 | 0.00 | 0.00 | | |
| 031 | L- DATA HARDWARE 17782 | 2,000.00 | 2,000.00 | 0.00 | 0.00 | 2,000.00 | 100.00 | 0.00 | 0.00 | | |
| 032 | M- DATA HARDWARE 17782 | 60,000.00 | 60,000.00 | 0.00 | 0.00 | 60,000.00 | 100.00 | 0.00 | 0.00 | | |
| 033 | L- VIDEO SYSTEM 17785 | 18,000.00 | 18,000.00 | 0.00 | 0.00 | 18,000.00 | 100.00 | 0.00 | 0.00 | | |
| 034 | M- VIDEO SYSTEM 17785 | 105,000.00 | 105,000.00 | 0.00 | 0.00 | 105,000.00 | 100.00 | 0.00 | 0.00 | | |
| 035 | L- PA SOUND 17823 | 11,000.00 | 11,000.00 | 0.00 | 0.00 | 11,000.00 | 100.00 | 0.00 | 0.00 | | |
| 036 | M- PA SOUND 17823 | 18,000.00 | 18,000.00 | 0.00 | 0.00 | 18,000.00 | 100.00 | 0.00 | 0.00 | | |
| 037 | L- CAFETERIUM SOUND 17784 | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00 | 0.00 | 0.00 | | |
| 038 | M- CAFETERIUM SOUND 17784 | 14,000.00 | 14,000.00 | 0.00 | 0.00 | 14,000.00 | 100.00 | 0.00 | 0.00 | | |
| 039 | L- GYM SOUND 17786 | 6,000.00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 100.00 | 0.00 | 0.00 | | |
| 040 | M- GYM SOUND 17786 | 17,000.00 | 17,000.00 | 0.00 | 0.00 | 17,000.00 | 100.00 | 0.00 | 0.00 | | |
| 041 | L- MUSIC ROOM SOUND 17783 | 2,500.00 | 2,500.00 | 0.00 | 0.00 | 2,500.00 | 100.00 | 0.00 | 0.00 | | |
| 042 | M- MUSIC ROOM SOUND 17783 | 9,000.00 | 9,000.00 | 0.00 | 0.00 | 9,000.00 | 100.00 | 0.00 | 0.00 | | |
| 043 | L- CLASSROOM SOUND 17787 | 6,000.00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 100.00 | 0.00 | 0.00 | | |
| 044 | M- CLASSROOM SOUND 17787 | 38,000.00 | 39,000.00 | 0.00 | 0.00 | 39,000.00 | 100.00 | 0.00 | 0.00 | | |
| 045 | L- SECURITY SYSTEM 17791 | 9,000.00 | 9,000.00 | 0.00 | 0.00 | 9,000.00 | 100.00 | 0.00 | 0.00 | | |
| 046 | M- SECURITY SYSTEM 17791 | 13,000.00 | 13,000.00 | 0.00 | 0.00 | 13,000.00 | 100.00 | 0.00 | 0.00 | | |
| 047 | L- CCTV SYSTEM 17795 | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | | |
| 048 | M- CCTV SYSTEM 17795 | 29,000.00 | 29,000.00 | 0.00 | 0.00 | 29,000.00 | 100.00 | 0.00 | 0.00 | | |
| CO01 | CHANGE ORDER # 1 | 9,452.00 | 9,452.00 | 0.00 | 0.00 | 9,452.00 | 100.00 | 0.00 | 0.00 | | |
| CO02 | CHANGE ORDER # 2 | -12,741.00 | -12,741.00 | 0.00 | 0.00 | -12,741.00 | 100.00 | 0.00 | 0.00 | | |
| CO03 | CHANGE ORDER # 3 | 3,358.00 | 3,358.00 | 0.00 | 0.00 | 3,358.00 | 100.00 | 0.00 | 0.00 | | |
| CO04 | CHANGE ORDER # 4 | 2,334.00 | 2,334.00 | 0.00 | 0.00 | 2,334.00 | 100.00 | 0.00 | 0.00 | | |

Application and Certificate For Payment -- page 4

To Owner: TURNER DAG TYS
 From (Contractor): ESI, INC.
 Project: MT AIRY SGHOOI

Application No: 20 Date: 04/28/08
 Contractor's Job Number: 65606
 Architect's Project No:

Period To: 04/28/08

| Item Number | Description | Scheduled Value | Work Completed | | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|--------------------------|------------------|---------------------|----------------------|-------------|-------------|----------------------------|------------------------------|-------------|-------------------|-----------|------|
| | | | Previous Application | This Period | | | | | | | |
| CO06 | CHANGE ORDER # 5 | 933.00 | 933.00 | 0.00 | 0.00 | 933.00 | 100.00 | 0.00 | 0.00 | | |
| CO06 | CHANGE ORDER # 6 | 2,992.00 | 2,992.00 | 0.00 | 0.00 | 2,992.00 | 100.00 | 0.00 | 0.00 | | |
| CO07 | CHANGE ORDER # 7 | 3,397.00 | 3,397.00 | 0.00 | 0.00 | 3,397.00 | 100.00 | 0.00 | 0.00 | | |
| CO08 | CHANGE ORDER # 8 | 3,250.00 | 3,250.00 | 0.00 | 0.00 | 3,250.00 | 100.00 | 0.00 | 0.00 | | |
| CO09 | CHANGEORDER#9 | 279.00 | 279.00 | 0.00 | 0.00 | 279.00 | 100.00 | 0.00 | 0.00 | | |
| CO10 | CHANGEORDER#10 | 4,361.00 | 4,361.00 | 0.00 | 0.00 | 4,361.00 | 100.00 | 0.00 | 0.00 | | |
| CO11 | CHANGEORDER#11 | 2,120.00 | 2,120.00 | 0.00 | 0.00 | 2,120.00 | 100.00 | 0.00 | 0.00 | | |
| CO12 | CHANGEORDER#12 | 1,335.00 | 1,335.00 | 0.00 | 0.00 | 1,335.00 | 100.00 | 0.00 | 0.00 | | |
| CO13 | CHANGEORDER#13 | 430.00 | 430.00 | 0.00 | 0.00 | 430.00 | 100.00 | 0.00 | 0.00 | | |
| CO14 | CHANGEORDER#14 | -1,495.00 | -1,495.00 | 0.00 | 0.00 | -1,495.00 | 100.00 | 0.00 | 0.00 | | |
| Application Total | | 1,889,005.00 | 1,889,005.00 | 0.00 | 0.00 | 1,889,005.00 | 100.00 | 0.00 | 0.00 | | |

DHARCHITECTS, INC.

5306 S. GILMORE RD.

(513)874-8338

FAIRFIELD, OHIO 45014

FAX#(513)874-8695

LETTER OF TRANSMITTAL

TO: TURNER/DAG/TYS

DATE 5-15-08
PROJECT # 2005.01
PROJECT MT. AIRBORNER/DAG/TYS

FAX # _____
ATTENTION: BRIDGETT STAMPS

MAY 20 2008
RECEIVED

WE TRANSMIT:

UNDER SEPERATE COVER VIA: _____

THE FOLLOWING:

DRAWINGS CORRESPONDENCE SHOP DRAWING PRINTS PRODUCT LITERATURE
 SPECIFICATIONS CHANGE ORDER PAY REQUEST PROPOSAL REQUEST

FOR:

APPROVAL YOUR USE YOUR RECORDS _____
 REVIEW & COMMENT DISTRIBUTION YOUR INFORMATION _____

| COPIES: | DATE: | REV. NO. | DESCRIPTION: |
|----------|-------|----------|--------------------------|
| <u>4</u> | _____ | _____ | <u>EST PAY APP. # 20</u> |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

REMARKS:

COPIES TO:

DAG file

PREPARED BY:

[Signature]

APPLICATION AND CERTIFICATION FOR PAYMENT

CONSTRUCTION MANAGER-ADVISER EDITION

PAGE ONE OF PAGES

TO OWNER: Turner DAG/TYS,
2315 Iowa Avenue
Cincinnati, OH 45206

PROJECT: Mt Airy New School HVAC

APPLICATION NO: 18

PERIOD TO: 9/24/08

PROJECT NOS.:

FROM CONTRACTOR:

RPC Mechanical Inc.
5301 Lester Road
Cincinnati, OH 45213

VIA CONSTRUCTION MANAGER:
VIA ARCHITECT:

CONTRACT DATE:

Distribution to:
 OWNER
 ARCHITECT
 CONTRACTOR

CONTRACTOR'S APPLICATION FOR PAYMENT

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

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

1. ORIGINAL CONTRACT SUM \$ 1,505,000.00
 2. Net change by Change Orders \$ 25,767.00
 3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 1,530,767.00
 4. TOTAL COMPLETED & STORED TO DATE (Column G) \$ 1,530,767.00
 5. RETAINAGE:
 a. 0 % of Completed Work \$ 0
 b. 0 % of Stored Material \$ 0

CONTRACTOR: RPC MECHANICAL, INC

By: [Signature] Date: 09/24/08

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

ARCHITECT: [Signature] Date: 10-2-08

CONSTRUCTION MANAGER: [Signature] Date: 10/2/08

Approved:

SCHOOL DISTRICT TREASURER:
By: _____ Date: _____

Total Retainage (Lines 5a + 5b or Total in Column I) \$ 0.00
 6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total) \$ 1,530,767.00
 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 1,491,150.00
 8. CURRENT PAYMENT DUE \$ 39,617.00
 9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6) \$ 0.00

| CHANGE ORDER SUMMARY | ADDITIONS | DEDUCTIONS |
|--|-----------|------------|
| Total changes approved in previous months by Owner | \$28,710 | (\$2,943) |
| Total approved this Month | | \$0 |
| TOTALS | \$28,710 | (\$2,943) |
| NET CHANGES by Change Order | \$25,767 | |

CONTINUATION SHEET

Contractor's signed certification is attached.
 In tabulations below, amounts are stated to the nearest dollar.
 Use Column I on Contracts where variable retainage for line items may apply.

RPC #06131

APPLICATION NO: 18
 APPLICATION DATE: 09/24/08
 PERIOD TO: 09/24/08
 ARCHITECT'S PROJECT NO:

| A ITEM NO. | B DESCRIPTION OF WORK | C SCHEDULED VALUE | D WORK COMPLETED | | E THIS PERIOD | F MATERIALS PRESENTLY STORED (NOT IN D OR E) | G TOTAL | | H BALANCE TO FINISH (C - G) | I RETAINAGE (IF VARIABLE RATE) |
|------------------|---------------------------|-------------------------|---|-------------|------------------|---|---|--------------|--------------------------------------|---|
| | | | FROM PREVIOUS APPLICATION (D + E) | THIS PERIOD | | | COMPLETED AND STORED TO DATE (D+E+G) | % (G + C) | | |
| 1 | Bond, Insurance, Permits | \$39,000 | \$39,000 | \$0 | \$0 | | \$39,000 | \$0 | \$0 | |
| 2 | Mobilization | \$15,000 | \$15,000 | \$0 | \$0 | | \$15,000 | \$0 | \$0 | |
| 3 | Engineering | \$20,000 | \$20,000 | \$0 | \$0 | | \$20,000 | \$0 | \$0 | |
| 4 | Coordination | \$38,000 | \$38,000 | \$0 | \$0 | | \$38,000 | \$0 | \$0 | |
| 5 | Equipment (M) | \$552,000 | \$552,000 | \$0 | \$0 | \$0 | \$552,000 | \$0 | \$0 | |
| 6 | (L) | \$12,000 | \$12,000 | \$0 | \$0 | | \$12,000 | \$0 | \$0 | |
| 7 | Sheetmetal Equipment (M) | \$50,000 | \$50,000 | \$0 | \$0 | | \$50,000 | \$0 | \$0 | |
| 8 | (L) | \$10,000 | \$10,000 | \$0 | \$0 | | \$10,000 | \$0 | \$0 | |
| 9 | <u>Gym/Kitchen/Dining</u> | | | | | | | | | |
| 10 | Piping (M) | \$13,000 | \$13,000 | \$0 | \$0 | | \$13,000 | \$0 | \$0 | |
| 11 | (L) | \$19,000 | \$19,000 | \$0 | \$0 | | \$19,000 | \$0 | \$0 | |
| 12 | Sheetmetal (M) | \$24,000 | \$24,000 | \$0 | \$0 | | \$24,000 | \$0 | \$0 | |
| 13 | (L) | \$20,000 | \$20,000 | \$0 | \$0 | | \$20,000 | \$0 | \$0 | |
| 14 | Insulation (M) | \$4,000 | \$4,000 | \$0 | \$0 | | \$4,000 | \$0 | \$0 | |
| 15 | (L) | \$6,000 | \$6,000 | \$0 | \$0 | | \$6,000 | \$0 | \$0 | |
| 16 | <u>Common Area</u> | | | | | | | | | |
| 17 | Piping (M) | \$26,000 | \$26,000 | \$0 | \$0 | | \$26,000 | \$0 | \$0 | |
| 18 | (L) | \$38,000 | \$38,000 | \$0 | \$0 | | \$38,000 | \$0 | \$0 | |
| 19 | Sheetmetal (M) | \$65,000 | \$65,000 | \$0 | \$0 | | \$65,000 | \$0 | \$0 | |
| 20 | (L) | \$53,000 | \$53,000 | \$0 | \$0 | | \$53,000 | \$0 | \$0 | |
| 21 | Insulation (M) | \$8,000 | \$8,000 | \$0 | \$0 | | \$8,000 | \$0 | \$0 | |
| 22 | (L) | \$12,000 | \$12,000 | \$0 | \$0 | | \$12,000 | \$0 | \$0 | |
| 23 | <u>Academic Wing</u> | | | | | | | | | |
| 24 | Piping (M) | \$30,000 | \$30,000 | \$0 | \$0 | | \$30,000 | \$0 | \$0 | |
| 25 | (L) | \$45,000 | \$45,000 | \$0 | \$0 | | \$45,000 | \$0 | \$0 | |
| 26 | Sheetmetal (M) | \$76,000 | \$76,000 | \$0 | \$0 | | \$76,000 | \$0 | \$0 | |
| 27 | (L) | \$64,000 | \$64,000 | \$0 | \$0 | | \$64,000 | \$0 | \$0 | |
| 28 | Insulation (M) | \$10,000 | \$10,000 | \$0 | \$0 | | \$10,000 | \$0 | \$0 | |
| 29 | (L) | \$14,000 | \$14,000 | \$0 | \$0 | | \$14,000 | \$0 | \$0 | |

ACORD CERTIFICATE OF LIABILITY INSURANCE

OP ID MR
RPCME-1

DATE (MM/DD/YYYY)
09/26/08

PRODUCER

Roeding Group Companies, Inc.
2734 Chancellor Dr
Crestview Hills KY 41017-0900
Phone: 859-341-0202 Fax: 859-341-3709

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED

RPC Mechanical Inc.
5301 Lester Rd
Cincinnati OH 45213

INSURERS AFFORDING COVERAGE

NAIC #

INSURER A: CNA - A Rated

20435

INSURER B:

INSURER C:

INSURER D:

INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR ADD'L LTR | INSRD | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS |
|----------------|-------|--|--|----------------------------------|-----------------------------------|--|
| A | | GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> OH Stop Gap \$1,000,000 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC | 2092520892 SUBSTANTIALLY TO OCCUR | 01/01/08 | 01/01/09 | EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Emp Ben. 1,000,000 |
| A | | AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> Comp \$1,000 <input checked="" type="checkbox"/> Collision \$1,000 | 2092520889 | 01/01/08 | 01/01/09 | COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ |
| | | GARAGE LIABILITY <input type="checkbox"/> ANY AUTO | | | | AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$ |
| A | | EXCESS/UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$ | 2092520875 | 01/01/08 | 01/01/09 | EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 |
| A | | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below | WC299485065 | 12/03/07 | 12/03/08 | <input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000 |
| A | | Errors & Omissions | CPB288259586 | 01/01/08 | 01/01/09 | E & O \$1,000,000 |
| A | | Leased/Rented Equip | 2092520889 | 01/01/08 | 01/01/09 | \$50,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Project: Mt Airy School, Bid Package #1-#5. Contract #10960P0. Cincinnati Public Schools Board of Education is listed as additional insured as respects this project.

CERTIFICATE HOLDER

CINCIPU

Cincinnati Public Schools
Board of Education
7001 Reading Rd
Cincinnati OH 45237

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Bill Holocher



The Ohio School Facilities Commission
 10 West Broad Street
 14th Floor
 Columbus, Ohio 43215
 Phone : 614-466-6290 Fax 614-466-7749

CERTIFICATION OF CONTRACT COMPLETION

Contractor's Contract No. -

Project Name: Mt. Airy School Contractor: RPC Mechanical, Inc.

School District Board: _____

County: Hamilton

School District Staff Training Completed: Yes No Trades Package Name: HVAC

The undersigned certifies that all the Contractor's Work is 100 percent complete, with exception of the below noted deficiencies, and the Contractor has complied with all conditions precedent to final payment and release of retainage. When upon Final Inspection, items of Work cannot be completed because of seasonal conditions approved by the Architect and the Construction Manager, such as Bituminous paving, landscaping, etc., and if the School District Board agrees that a particular item need not be completed until a subsequent date, the Architect, Construction Manager and School District Board may release payment to the Contractor less two (2) times the cost of completing the remaining Work.

Date to be Completed

RPC Mechanical, Inc. 9/24/2008
 Contractor Date

We, the undersigned, together with a representative of the Contractor employed for the execution of the Work, have inspected the Work included in the captioned Contract, prior to the date of this certificate, and hereby certify that all Work on the Contract has been completed in accordance with the requirements of the Contract Documents recommend the Work be accepted.

Architect _____ Date _____ Construction Manager _____ Date _____

Acknowledgment of Acceptance of Project

Final Acceptance of Project

School District Board _____ Date _____

Ohio School Facilities Commission _____ Date _____

LABOR

Said affiant further says that the following shows the names and addresses of every unpaid laborer in the employ of RPC Mechanical, Inc furnishing labor under sold contract, giving the amount, if any, which is due, or to become due, for labor done to date hereof.

NOTE-if the fact is that every laborer has been paid in full, then recite: "Every laborer has been paid in full." If not, then give each unpaid laborer's name and address and the amount due or to becomes due.

| NAME | ADDRESS | HOURS | Amount Due or to Become Due for Labor Furnished to Date Hereof. |
|------------------------|---------|-------|---|
| All Labor Paid In Full | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Affiant further states that there is due or to become due to RPC Mechanical, Inc for work performed or machinery, material or fuel furnished to Cincinnati Public Schools hereof under sold contracts, the sum of \$ 39,617.00 (Owner or Contractor) to date

That the amounts due or to become due to said sub-contractors, material-men and laborers, for work don* or machinery, material or fuel furnished to the date hereof, to RPC Mechanical Inc. are fully and correctly got forth opposite their names, respectively, in the aforesaid statements, and further evidenced by certificates of every person furnishing machinery, material or fuel, hereto attached, and made a part hereof.

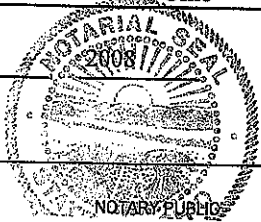
Affiant further soy* that RPC Mechanical Inc. has not employed or purchased or procured machinery, material or fuel from, or sub-contract*d with any person, firm or corporation, other than those above mentioned, and owes for no labor performed, or machinery, material or fuel furnished, under sold contracts, other than above set forth,

Jeri Hill
Jeri Hill

, Vice President

SWORN TO BEFORE ME AND SUBSCRIBED IN MY PRESENCE, at Cincinnati, Ohio Ohio,

this 24 day of September



RHONDA K GARTEN
Notary Public, State of Ohio
My Commission Expires October 20, 2009

Rhonda K Garten

AFFIDAVIT OF ORIGINAL OR \$US-CONTRACTOR. No. 44
(R C II 131 LOA, EIF 4 10-88)

State of Ohio, Hamilton ss Cincinnati

Kevin Madigan Ohio 9/24/2008

being first duly sworn, says that he is Vice President

of RPC Mechanical Inc the Original contractor having a contract with

Cincinnati Public Schools the owner

for HVAC

a project situated on or around or in front of the following described property,

in Cincinnati Ohio, viz: Mt. Airy School



XXXXXXXXXXXXXXXXXXXX
 XXXXXXXXXXXXXXXXXXXX
 P O BOX 23129
 CINCINNATI, OH 45223-0128

INVOICE
 No. 10447

5301 LESTER ROAD, CINCINNATI, OHIO 45213
 PHONE (513) 733-8888 FAX (513) 733-8555

Turner DAG/TYS
 2315 Iowa Avenue
 Cincinnati OH 45206

| | |
|--------------------------------|-------------|
| INVOICE DATE | 09/24/08 |
| CUSTOMER NUMBER | 000496 |
| RPC JOB NUMBER | 06131 |
| CUSTOMER PURCHASE ORDER NUMBER | |
| TERMS | Net 10 Days |

JOB NAME AND LOCATION

Mt Airy New School HVAC

| DESCRIPTION | PRICE | INVOICE AMOUNT |
|-------------------------|----------------|----------------|
| TOTAL HVAC CONTRACT | \$1,505,000.00 | |
| CHANGE ORDERS | \$25,767.00 | |
| TOTAL HVAC CONTRACT | \$1,530,767.00 | |
| TOTAL COMPLETE TO DATE | \$1,530,767.00 | |
| LESS RETENTION | \$0.00 | |
| LESS PREVIOUSLY BILLED | \$1,491,150.00 | |
| AMOUNT DUE THIS BILLING | | \$39,617.00 |

Seller represents that the goods or services covered by this invoice have been produced or rendered in full compliance with the requirements of the Fair Labor Standards Act of 1938 as amended, including Section 12(A)

FOR OFFICE USE ONLY: BREAKDOWN OF THIS INVOICE

Invoice Gross \$ \$39,617.00
 Amount Due \$
 Retention \$ \$39,812.00

If this invoice is final retention invoice, please check

Total retention \$

The Ohio School Facilities Commission
 10 West Broad Street
 Suite 1400
 Columbus, Ohio 43215

Contractor's Name: RPC Mechanical, Inc.
 Address: 5301 Lester Road, Cincinnati, OH 45213

Contractor Pay Application Summary

Project Name: Mt. Airy School
 Bid Package No.

| | | | |
|----|---|----|----------------|
| 1 | Original Contract Amount | \$ | \$1,505,000.00 |
| 2 | Net Changes to Date | \$ | \$25,767.00 |
| 3 | Current Contract Amount | \$ | \$1,530,767.00 |
| 4 | Labor Completed to Date | \$ | 513,235.00 |
| 5 | Material Completed to Date | \$ | 1,017,532.00 |
| 6 | Total Work Completed to Date | \$ | 1,530,767.00 |
| 7 | Store Material to Date | \$ | 0.00 |
| 8 | Less Retained to Date (8% of Labor to Date) | \$ | 0.00 |
| 9 | Total Amount Due | \$ | 1,530,767.00 |
| 10 | Less Previous Payments | \$ | 1,491,150.00 |
| 11 | Less Amount Retained to Cover Lien | \$ | 0.00 |
| 12 | Less Amount Retained for Liquidated Damages | \$ | 0.00 |
| 13 | Less Other Amounts Withheld | \$ | 0.00 |
| 14 | Current Due | \$ | 39,617.00 |
| 15 | BALANCE TO FINISH, INCLUDING RETAINAGE | \$ | 0.00 |

OSFC approval required for the following contract adjustments:

1. Assessment of liquidated damages
2. Other amounts withheld

Ohio School Facilities Commission _____

Date _____

Comments:

Pleasant Ridge School
Supporting Documentation

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 |
|----------------|--------------|----------------|--------------|
| 9110-3676-01 | | | |
| | | | |
| | | | |
| | | | |

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 type="checkbox"/> Proof of payment.* | <input type="checkbox"/> Manufacturer's Spec sheets | <input type="checkbox"/> Energy model/calculations and detailed inputs for Custom applications |
|--|---|---|--|

* 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 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 type="checkbox"/> MSD Custom General Worksheet <input 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 Ohio Lighting Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.

Is this application: **NEW** (original) or **REVISED** (changes made to original application)

| Building Type – Required (check one) | | |
|---|--|---|
| <input type="checkbox"/> Data Centers | <input type="checkbox"/> Full Service Restaurant | <input type="checkbox"/> Office |
| <input checked="" type="checkbox"/> Education/K-12 | <input type="checkbox"/> Healthcare | <input type="checkbox"/> Public Assembly |
| <input type="checkbox"/> Education Other | <input type="checkbox"/> Industrial | <input type="checkbox"/> Public Order/Safety |
| <input type="checkbox"/> Elder Care/Nursing Home | <input type="checkbox"/> Lodging | <input type="checkbox"/> Religious Worship/Church |
| <input type="checkbox"/> Food Sales/Grocery | <input type="checkbox"/> Retail (Small Box) | <input type="checkbox"/> Service |
| <input type="checkbox"/> Fast Food Restaurant | <input type="checkbox"/> Retail (Big Box) | <input type="checkbox"/> Warehouse |
| <input type="checkbox"/> Other: | | |
| How did you hear about the program? (check one) | | |
| <input type="checkbox"/> Duke Energy Representative | <input type="checkbox"/> Web Site | <input type="checkbox"/> Radio |
| <input checked="" type="checkbox"/> Contractor / Vendor | <input type="checkbox"/> Other _____ | |

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

| | | | |
|--|---|--|--|
| <input type="checkbox"/> All sections of application | <input type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer | <input type="checkbox"/> Tax ID number for payee | <input type="checkbox"/> Customer/vendor agree to Terms and Conditions |
|--|---|--|--|

| Customer Information | | | |
|---|---------------------------|------------------|--------------|
| Customer/Business | Cincinnati Public Schools | Contact | Don Elbe |
| Phone | 614-580-3352 | Account Number | 9110-3676-01 |
| Street Address (Where incentive should be mailed) | | 2651 Burnett Ave | |
| City | Cincinnati | State | OH |
| Zip Code | 45219 | | |
| Installation Street Address | 5945 Montgomery Rd | | |
| City | Cincinnati | State | OH |
| Zip Code | 45213 | | |
| E-mail Address | | | |

*Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.

| Vendor Information | | | |
|--------------------|---------------------------|----------------------------|----------------|
| Vendor | Plug Smart | Contact | Lucas Dixon |
| Phone | 614-580-3352 | Fax | 1-800-518-5576 |
| Street Address | | 1275 Kinnear Road Suit 229 | |
| City | Columbus | State | OH |
| Zip Code | 43212 | | |
| E-mail Address | lucas.dixon@plugsmart.com | | |

If Duke Energy has questions about this application, who should we contact? Customer Vendor

| Payment Information | |
|---|---|
| Who should receive incentive payment? | <input checked="" type="checkbox"/> Customer <input type="checkbox"/> Vendor (Customer must sign below) |
| I hereby authorize payment of incentive directly to the vendor: | Customer Signature (written signature) |
| | Date |
| Provide Tax ID Number for Payee | Customer Tax ID # |
| | Vendor Tax ID # |

| Terms and Conditions | |
|--|------------------|
| I have read and hereby agree to the Terms & Conditions and Program Requirements. | |
| Customer Signature | Vendor Signature |
| Date | Date |
| Title | Title |

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|--------------------------------|-----------------------|-----|---|----------------------------|-------------------------------------|-----------------|
| T-12 fixtures replaced by T8 (T8 U tube lamps are eligible for incentives based on the total measured length of the lamp.) | | | | | | | |
| T8 8ft 2 lamp replacing T12 8ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$3.50 | | Hrs. | | | |
| T8 8ft 1 lamp replacing T12 8ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$2.50 | | Hrs. | | | |
| T8 4ft 4 lamp replacing T12 4ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$5.50 | | Hrs. | | | |
| T8 4ft 3 lamp replacing T12 4ft 3 lamp (retrofit only) | Ballast model# Lamp model # | \$4.50 | | Hrs. | | | |
| T8 4ft 2 lamp replacing T12 4ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 4ft 1 lamp replacing T12 4ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |
| T8 3ft 4 lamp replacing T12 3ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| T8 3ft 3 lamp replacing T12 3ft 3 lamp (retrofit only) | Ballast model# Lamp model # | \$3.25 | | Hrs. | | | |
| T8 3ft 2 lamp replacing T12 3ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 3ft 1 lamp replacing T12 3ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |
| T8 2ft 4 lamp replacing T12 2ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$3.00 | | Hrs. | | | |
| T8 2ft 3 lamp replacing T12 2ft 3 lamp (retrofit only) | Ballast model# Lamp model # | \$2.10 | | Hrs. | | | |
| T8 2ft 2 lamp replacing T12 2ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 2ft 1 lamp replacing T12 2ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%.
- *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|--------------------------------|-----------------------|-----|---|----------------------------|-------------------------------------|-----------------|
| T-12 fixtures replaced by T8 (T8 U tube lamps are eligible for incentives based on the total measured length of the lamp.) | | | | | | | |
| T8 HO 8ft 1 lamp replacing T12 HO 8ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| T8 HO 8ft 2 lamp replacing T12 HO 8ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$7.00 | | Hrs. | | | |
| T8 HB 4ft 3L replacing 150-249W HID(retrofit only) | Ballast model# Lamp model # | \$15.00 | | Hrs. | | | |
| T8 HB 4ft 4L a replacing 250-399W HID(retrofit only) | Ballast model# Lamp model # | \$20.00 | | Hrs. | | | |
| T8 HB 4ft 6L replacing 400-999W HID (retrofit only) | Ballast model# Lamp model # | \$25.00 | | Hrs. | | | |
| T8 HB 4ft 8L replacing a 400-999W HID(retrofit only) | Ballast model# Lamp model # | \$20.00 | | Hrs. | | | |
| 2 fixtures – T8 HB 4ft 8 Lamp (32W) replacing 1,000 W HID (2 for 1 replacement (retrofit only) | Ballast model# Lamp model # | \$60.00 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%.
- *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Fixtures = Lamps + Ballast <i>Fixtures must be permanently retrofitted to the lamp count specified. Reflectors may be utilized to maintain necessary lighting levels.</i> | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|----------------------------------|-----------------------|-----|--|----------------------------|-------------------------------------|-----------------|
| T-12 fixtures replaced by T8 with delamping | | | | | | | |
| T8 8ft 1 lamp replacing T12 8 ft 2 lamp (retrofit only)* | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| T8 4ft 2 lamp replacing T12 4ft 3 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.50 | | Hrs. | | | |
| T8 4ft 1 lamp replacing T12 4ft 2 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.50 | | Hrs. | | | |
| T8 3ft 3 lamp replacing T12 3ft 4 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 3ft 2 lamp replacing T12 3 ft 3 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 3ft 1 lamp replacing T12 3 ft 2 lamp (retrofit only)* | Ballast model# Lamp model # | \$2.00 | | Hrs. | | | |
| T8 2ft 3 lamp replacing T12 2 ft 4 lamp (retrofit only)* | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |
| T8 2ft 2 lamp replacing T12 2 ft 3 lamp (retrofit only)* | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |
| T8 2ft 1 lamp replacing T12 2ft 2 lamp (retrofit only)* | Ballast model# Lamp model # | \$1.50 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps .
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|--|--------------------------------|-----------------------------|-----|--|----------------------------------|---|--------------------|
| T12 8ft and 4ft fixture replaced by T8 High Performance | | | | | | | |
| Replace T12 and T12 HO 8' fixtures with High Performance T8 4ft lamps and ballast. Approved lamps and ballasts must be listed on the CEE High performance T8 qualified product list found on the web at www.cee1.org . | | | | | | | |
| High Performance T8 4ft 2 lamp fixture replacing T12 8ft 1 lamp fixture | Ballast model# Lamp model # | \$5.00 | | Hrs | | | |
| High Performance T8 4ft 4 lamp fixture replacing T12 8ft 2 lamp fixture | Ballast model# Lamp model # | \$5.00 | | Hrs | | | |
| High Performance T8 4ft 2 lamp fixture replacing T12 High Output 8ft 1 lamp fixture | Ballast model# Lamp model # | \$10.00 | | Hrs | | | |
| High Performance T8 4ft 4 lamp fixture replacing T12 High Output 8ft 2 lamp fixture | Ballast model# Lamp model # | \$12.50 | | Hrs | | | |
| High Performance T8 4ft 1 lamp fixture replacing T12 4ft 1 lamp | Ballast model# Lamp model # | \$3.00 | | Hrs | | | |
| High Performance T8 4ft 2 lamp fixture replacing T12 4ft 2 lamp | Ballast model# Lamp model # | \$4.00 | | Hrs | | | |
| High Performance T8 4ft 3 lamp fixture replacing T12 4 ft 3 lamp | Ballast model# Lamp model # | \$6.00 | | Hrs | | | |
| High Performance T8 4ft 4 lamp fixture replacing T12 4 ft 4 lamp | Ballast model# Lamp model # | \$8.00 | | Hrs | | | |
| T-12 4ft fixture replaced by Reduced Wattage T8 Lighting | | | | | | | |
| Replace standard T12 systems with 4' 25W lamps, 28W lamps, and approved CEE ballast. In order to qualify for incentives, bulbs and ballasts must be from CEE reduced-wattage approved list. To view the CEE Reduced Wattage T8 qualified product list, go to www.cee1.org . Note: Reduced Watt T8 compatibility varies; consult manufacturer's literature before specifying products. | | | | | | | |
| Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T12 4ft 1 lamp – 34 W | Ballast model# Lamp model # | \$4.00 | | Hrs | | | |
| Reduced Wattage T8 4ft 2 lamp of 28 W or less & ballast replacing standard T12 4 ft 2 lamp – 34 W | Ballast model# Lamp model # | \$5.00 | | Hrs | | | |
| Reduced Wattage T8 4ft 3 lamp of 28 W or less & ballast replacing standard T12 4 ft 3 lamp – 34 W | Ballast model# Lamp model # | \$7.00 | | Hrs | | | |
| Reduced Wattage T8 4ft 4 lamp of 28 W or less & ballast replacing standard T12 4 ft 4 lamp – 34 W | Ballast model# Lamp model # | \$9.00 | | Hrs | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Normal or low ballast factor ballasts must be utilized to be eligible.
- Reduced watt T8 lamps should not be used in dimming applications unless the lamp and ballast manufacturers have approved a specific application for dimming or frequent switching. May demonstrate dim light, spiraling, pulsing and other undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|--|--------------------------------|-----------------------------|-----|--|----------------------------------|---|--------------------|
| T-12 fixtures replaced with T5 Electronic Ballasts | | | | | | | |
| T5 4ft (28 watt) 1 lamp replacing T12 4ft 1 lamp (retrofit only) | Ballast model# Lamp model # | \$2.50 | | Hrs. | | | |
| T5 4ft (28 watt) 2 lamp replacing T12 4ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$4.00 | | Hrs. | | | |
| T5 4ft (28 watt) 3 lamp replacing T12 4ft 3 lamp (retrofit only) | Ballast model# Lamp model # | \$5.00 | | Hrs. | | | |
| T5 4ft (28 watt) 4 lamp replacing T12 4ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$6.00 | | Hrs. | | | |
| T5 HO 4ft 1 (54 watt) lamp replacing 34W T12 4ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$3.00 | | Hrs. | | | |
| T5 HO 4ft 2 (54 watt) lamp replacing 34W T12 4ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$4.50 | | Hrs. | | | |
| T5 HO 4ft 2 (54 watt) lamp replacing 60W T12 8 ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$4.50 | | Hrs. | | | |
| T5 HO 4ft 3 (54 watt) lamp replacing 95W T12 HO 8ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$5.50 | | Hrs. | | | |
| T5 HO 4ft 4 (54 watt) lamp replacing 60W T12 8ft 4 lamp (retrofit only) | Ballast model# Lamp model # | \$6.50 | | Hrs. | | | |
| T5 HO 4ft 4 (54 watt) lamp replacing 95W T12 VHO 8ft 2 lamp (retrofit only) | Ballast model# Lamp model # | \$6.50 | | Hrs. | | | |
| T5 HO HB 2L replacing 150-249W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$15.00 | | Hrs. | | | |
| T5 HO HB 3L replacing 250-399W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$20.00 | | Hrs. | | | |
| T5 HO HB 4L replacing 400-999W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$25.00 | | Hrs. | | | |
| T5 HO HB 6L replacing 400-999W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$20.00 | | Hrs. | | | |
| T5 HO HB 8L replacing 750-999W HID (retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$37.50 | | Hrs. | | | |
| 2 fixtures – T5 HO HB 6 Lamp replacing 1,000 W HID (2 for 1 retrofit only) Fixture efficiency | Ballast model# Lamp model # | \$60.00 | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-5 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- Eligible T5 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%. *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.

- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated) | Ballast and Model Numbers | Incentive per fixture | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|--------------------------------|--------------------------|-----|--|----------------------------------|---|--------------------|
| T-8 Fixtures replaced by High Performance T8 Lighting | | | | | | | |
| Replace standard T8 systems with High Performance T8 4ft lamps and ballast. Approved lamps and ballasts must be listed on the CEE High performance T8 qualified product list found on the web at www.cee1.org . | | | | | | | |
| T8 4ft High Performance 1 lamp & ballast replacing standard T8 4ft 1 lamp fixture | Ballast model# Lamp model # | \$2.00 | | Hrs | | | |
| T8 4ft High Performance 2 lamp & ballast replacing standard T8 4ft 2 lamp fixture | Ballast model# Lamp model # | \$3.00 | | Hrs | | | |
| T8 4ft High Performance 3 lamp & ballast replacing standard T8 4ft 3 lamp fixture | Ballast model# Lamp model # | \$3.10 | | Hrs | | | |
| T8 4ft High Performance 4 lamp & ballast replacing standard T8 4ft 4 lamp fixture | Ballast model# Lamp model # | \$6.00 | | Hrs | | | |
| T-8 Fixtures replaced by Reduced Wattage High Performance T8 Lighting | | | | | | | |
| Replace standard T8 systems with 4' 25W lamps, 28W lamps approved CEE ballast OR relamp existing T8 fixtures with reduced wattage T8 lamps 28W or less. In order to qualify for incentives bulbs and ballasts must be from CEE reduced-wattage approved list. To view the CEE Reduced Wattage T8 qualified product list, go to www.cee1.org . Note: reduced wattage T8 compatibility varies; consult manufacturer's literature before specifying products. | | | | | | | |
| Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T8 4ft 1 lamp – 32W | Ballast model# Lamp model # | \$2.00 | | Hrs | | | |
| Reduced Wattage T8 4ft 2 lamp of 28W or less & ballast replacing standard T8 4ft 2 lamp – 32W | Ballast model# Lamp model # | \$3.00 | | Hrs | | | |
| Reduced Wattage T8 4ft 3 lamp of 28W or less & ballast replacing standard T8 4ft 3 lamp – 32W | Ballast model# Lamp model # | \$5.00 | | Hrs | | | |
| Reduced Wattage T8 4ft 4 lamp of 28W or less & ballast replacing standard T8 4ft 4 lamp – 32W | Ballast model# Lamp model # | \$6.00 | | Hrs | | | |
| Relamp T8 4ft 32W fixtures with Reduced Wattage T8 lamps 28 watts or less | Ballast model# Lamp model # | \$2.50 / lamp | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps .
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Reduced watt T8 lamps should not be used in dimming applications unless the lamp and ballast manufacturers have approved a specific application for dimming or frequent switching. May demonstrate dim light, spiraling, pulsing and other undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| CFL Lamps and Fixtures | Incentive | Qty | Annual Operating Hours (minimum of 1800) | Equipment Cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|--|------------------|-----|--|----------------------------|-------------------------------------|-----------------|
| 42W 8 lamp HB CFL replacing 400W HID (retrofit only) Model Number | \$25.00 | | Hrs. | | | |
| CFL – Screw In (lamp only) replacing an incandescent (retrofit only) Model Number | \$0.75 / lamp | | Hrs. | | | |
| CFL – Screw-In dimmable or 3-way bulb replacing an incandescent dimmable or 3-way bulb (retrofit only) Model Number | \$1.00 / lamp | | Hrs. | | | |
| CFL – Hardwired Fixture replacing incandescent fixture (only pin based CFL's qualify) Model Number | \$5.00 / fixture | | Hrs. | | | |
| Up to 30W CFL Flood Lamp with Reflector replacing 100W or less incandescent (retrofit only) Model Number | \$1.50 / lamp | | Hrs. | | | |
| 33W – 115W CFL lamp replacing 100 W or more incandescent Model Number | \$2.50 / lamp | | Hrs. | | | |
| Energy Star LED Lamps | | | | | | |
| Replace incandescent bulbs with Energy Star LED (retrofit only) <i>LED lamps must be listed on the Energy Star Qualified Light Bulbs list to qualify.</i> http://www.energystar.gov/index.cfm?fuseaction=iledl.display_products_pdf Model Number | \$5.00 / lamp | | Hrs. | | | |
| Replace 60-100W incandescent with ENERGY STAR qualified LED downlight 18 Watts or less. (retrofit only) <i>Product must appear on ENERGY STAR Qualified LED Lighting qualified products list, and must contain the word "downlight".</i> http://www.energystar.gov/index.cfm?fuseaction=ssl.display_products_com_pd Model Number | \$7.50 / fixture | | Hrs. | | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.

| Metal Halide | | | | | | |
|--|-------------|--|--|------|--|--|
| 320W Pulse Start Halide replacing 400W HID (retrofit only) **check one <input type="checkbox"/> R <input type="checkbox"/> FE Model Number | \$12.50 | | | Hrs. | | |
| Ceramic Metal Halide | | | | | | |
| 20W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescent or <input type="checkbox"/> Halogen of at least 100 W Model Number | \$15.00 | | | Hrs. | | |
| 39W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescent or <input type="checkbox"/> Halogen of at least 150 W Model Number | \$15.00 | | | Hrs. | | |
| 50W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogen for a total of 195W Model Number | \$15.00 | | | Hrs. | | |
| 70W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogen for a total of 225W Model Number | \$15.00 | | | Hrs. | | |
| 100W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogens for a total of 270W Model Number | \$15.00 | | | Hrs. | | |
| 150W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogens for a total of 360W Model Number | \$15.00 | | | Hrs. | | |
| 25 W or less Ceramic Metal Halide with integral ballast replacing 70 W or greater incandescent flood light Model Number | \$5.00/lamp | | | Hrs. | | |

- Replacement must result in energy savings to qualify.
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- Incentives for pulse start metal halide fixtures are for 320w pulse start metal halide lamp/ballast combinations. In a retrofit application, the fixture must be hard-wired ballast retrofit or new fixture. Screw in retrofit lamps do not qualify. Pulse start lamp wattage must be lower than existing probe start lamp wattage.
- Ceramic Metal Halide Incentive is for complete hardwired fixtures containing ceramic metal halide lamp and electronic ceramic metal halide ballast.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Measure | Incentive | Qty | Annual Operating Hrs (minimum of 1800) | Equipment cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|---|-------------------|-----|--|----------------------------|-------------------------------------|-----------------|
| 21" Tubular Skylight/Light Tube (at least one light fixture per light tube must be controlled by a "daylight" sensor (no additional daylight sensor incentive applies) Check One ** <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number | \$37.50 / fixture | | | | | |
| LED Exit Signs (replacing or retrofitting existing incandescent or compact fluorescent exit sign) Check one <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number | \$5.00 / fixture | | | | | |
| LED Lighting In Reach-in Freezer or Cooler Case (replacing fluorescent fixtures) Model Number | \$25.00 / door | | | | | |
| LED Case Lighting Sensor Controls Check one <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number Model Number | 5.00 / sensor | | | | | |
| Under 500 W connected to sensor check one <input type="checkbox"/> R <input checked="" type="checkbox"/> NC <input type="checkbox"/> FE Model Number CM-PDT-10, WSD-2P, WV-PDT-16 | \$10.00 / sensor | 82 | 2800 | \$9,666.98 | 8/19/2008 | \$820.00 |
| Over 500 W connected to sensor check one <input type="checkbox"/> R <input checked="" type="checkbox"/> NC <input type="checkbox"/> FE Model Number CM-PDT-10, WSD-2P, WV-PDT-16 | \$20.00 / sensor | 116 | 2800 | \$13,675.24 | 8/19/2008 | \$2,320.00 |

- Replacement must result in energy savings to qualify
- All equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- Tubular Skylight requires at least one light fixture per light tube that must be controlled by a "daylight" sensor (no additional daylight sensor incentive applies)
- LED exit signs shall use 5 watts or less including the battery charger when active. They must meet State Fire Marshal codes and be UL rated.
- Occupancy Sensors (under and over 500) must be either wall, ceiling, or fixture mounted. Rapid or programmed start ballasts are recommended for fluorescent fixtures.
- Occupancy Sensors (under 500W) installed on or built into High Bay fixtures are eligible for incentives.
- LED Lighting in Reach-in Freezer or Cooler Case: Must install a LED lighting system and replace (or in lieu of) a fluorescent lighting system for reach-in refrigerated display case.
- Fluorescent magnetic ballasts cannot be used to power the LED case lighting system. Existing fluorescent fixture end connectors and ballasts must be removed.
- LED case lighting system must be a permanently installed luminaire. LED lamps that install into fluorescent lamp sockets are not eligible for incentives.
- LED Case Lighting Sensor Controls may only be installed with LED lighting systems. End of aisle and individual case sensors qualify.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

| Outdoor Lighting | Incentive | Qty | Annual Operating Hrs (minimum of 1800) | Equipment cost (w/o labor) | Date Installed and Operable (mm/yy) | Total Incentive |
|--|-----------------|-----|--|----------------------------|-------------------------------------|-----------------|
| Exterior LED or Induction fixture replacing up to 175W HID Model Number | \$20 / fixture | | | | | |
| Exterior LED or Induction fixture replacing 176W – 250W HID Model Number | \$25 / fixture | | | | | |
| Exterior LED or Induction fixture replacing 251W – 400W HID Model Number | \$40 / fixture | | | | | |
| Exterior LED or Induction fixture replacing > 400 W HID Model Number | \$75/ fixture | | | | | |
| Garage LED or Induction fixture replacing up to 175 W HID Model Number | \$50/ fixture | | | | | |
| Garage LED or Induction fixture replacing 176W – 250W HID Model Number | \$75/ fixture | | | | | |
| Garage LED or Induction fixture replacing 251W – 400 W HID Model Number | \$125/ fixture | | | | | |
| Garage LED or Induction fixture replacing > 400 W HID Model Number | \$200/ fixture | | | | | |
| LED Auto Traffic Signals (replacing incandescent) Model Number | \$6.25 / lamp | | | | | |
| LED Pedestrian Signals (replacing incandescent) Model Number | \$12.50/ signal | | | | | |

- Replacement must result in energy savings to qualify
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- equipment must be **new** to be eligible for incentives. Used equipment is **not** eligible for incentives.
- or and garage LED and induction lighting must result in a total power **reduction** of 40% or more.
- or and garage LEDs should be listed on either the Energy Star or Design Lights consortium qualifying products lists:
 1. http://www.energystar.gov/index.cfm?fuseaction=ssl.display_products_com_pdf
 2. <http://www.designlights.org/documents/NEEPDLCQPL.xls>
- and pedestrian signals using LED lights must replace conventional incandescent signals.
- ve capped at 50% of the equipment cost.
- construction or replacement of failed equipment must apply for Self Direct Custom program.

All
Outdo
Outdo
Traffic
Incenti
New

Program Requirements

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and it's affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties) and 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.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application. (Page7)
3. Purchase and install eligible energy-efficient equipment.
4. Complete and submit application for equipment that was installed after 1/1/2008.
5. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
6. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
8. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
8. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

Mercantile Self Direct Rebate Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
 - Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
 - All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
 - Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.
- Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to **513-419-5572**.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call **1-866.380.9580** or visit www.duke-energy.com.



Mercantile Self Direct Incentive Program

| Technology | Responsible for sales and not installs* | Responsible for sales and Installation* | Technology | Responsible for sales and not installs* | Responsible for sales and Installation* |
|--|--|--|--------------------|--|--|
| Lighting | <input type="checkbox"/> | <input type="checkbox"/> | Thermal Storage | <input type="checkbox"/> | <input type="checkbox"/> |
| Heating Ventilation & Cooling | <input type="checkbox"/> | <input type="checkbox"/> | Pumps/Motors/VFD's | <input type="checkbox"/> | <input type="checkbox"/> |
| Food Service | <input type="checkbox"/> | <input type="checkbox"/> | Chillers | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Heating | <input type="checkbox"/> | <input type="checkbox"/> | Refrigeration | <input type="checkbox"/> | <input type="checkbox"/> |
| Process Equipment (air compressors, injection molding, etc.) | <input type="checkbox"/> | <input type="checkbox"/> | Window Film | <input type="checkbox"/> | <input type="checkbox"/> |

* Check all that apply

Vendors who wish to be listed as a Mercantile Self Direct Incentive Program participating Vendor shall complete this form. A signed copy of this form must be on file at Duke Energy in order for the Vendor to receive incentive payments. Fax form to **513-419-5572** or email to SelfDirect@duke-energy.com.

I have read and understand the Mercantile Self Direct Incentive Program Requirements for Vendor Participation, and I agree to comply with all requirements set forth therein. By signing this agreement, I agree to provide my customers with information and documentation that is true and accurate to the best of my knowledge. I hereby represent and warrant that the Tax ID and Vendor Tax Status provided below are true and accurate. I agree that any confidential information concerning my customer, including but not limited to Duke Energy service account information, will be used for the sole purpose of facilitating the customer's participation in the Mercantile Self Direct Incentive Program. Further, I understand that I am responsible for making sure everyone working for me understands the requirements prior to soliciting customer participation.

| | |
|------------------------------|--|
| Vendor Federal Tax ID Number | |
|------------------------------|--|

To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a third-party vendor. The third-party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the third-party vendor have signed confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

| | | | | |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|
| Vendor Tax Status | <input type="checkbox"/> Corporation | <input type="checkbox"/> Individual/Sole Proprietor | <input type="checkbox"/> Partnership | <input type="checkbox"/> Other |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|

| | | | | |
|----------------|--------------------------------|---------------------------------|-------------------------------|--|
| Contact me via | <input type="checkbox"/> Phone | <input type="checkbox"/> E-Mail | <input type="checkbox"/> Mail | |
|----------------|--------------------------------|---------------------------------|-------------------------------|--|

| | |
|--------------------------|--|
| Company Name | |
| Mailing Address | |
| City, State, Zip | |
| Phone/Fax | |
| Primary E-mail Address | |
| Secondary E-mail Address | |
| Vendor Signature | |
| Title | |
| Print Name | |
| Date | |

For more information, call 1-866-380-9580 or visit www.duke-energy.com.



EXTENDED RANGE 360° SENSOR CEILING MOUNT • LOW VOLTAGE • DUAL TECHNOLOGY (PDT)

SPECIFICATIONS

FEATURES

- 100% Digital PIR Detection, Excellent RF Immunity
- 360° Coverage Pattern
- Patented Dual Technology with PIR / Microphonics Detection
- Push-Button Programmable
- Adjustable Time Delays
- Convenient Test Mode
- No Field Calibration or Sensitivity Adjustments Required
- 100 hr Lamp Burn-in Timer
- Green LED Indicator

LAMP MAXIMIZER® TECHNOLOGY

- Protects Lamp Life while Maximizing Energy Savings
- Minimum On Timer (15 min default)
- Occ. Time Delay (10 min default)
- LampMaximizer+ Mode - Optimizes Lamp Life & Energy Savings (disabled by default)
- Switch Counter (in 1000's)
- Total Lamp On Time (in khrs)

PHYSICAL SPECS

- SIZE 4.55" Dia. (11.56 cm)
1.55" Deep (3.94 cm)
- WEIGHT 6 oz
- MOUNTING
Ceiling Tile Surface
3.5" Octagon Box
Single Gang Handy Box
- COLOR White

ELECTRICAL SPECS

- OPERATING VOLTAGE
12-24 VAC/VDC
- CURRENT DRAW
Standard, 4 mA
w/ R option, 16 mA
- DIMMING LOAD Sinks < 20mA;
~40 Ballasts @ .5mA each
- RECOMMENDED POWER PACK
PP20

ENVIRONMENTAL SPECS

- OPERATING TEMP
14° to 160° F (-10° to 71° C)
- STORAGE TEMP
-14° to 160° F (-26° to 71° C)
- RELATIVE HUMIDITY
20 to 90% non-condensing
- SILICONE FREE
- ROHS COMPLIANT

OVERVIEW

Classrooms are ideal applications for the **CM PDT 10** Series Extended Range 360° occupancy sensor. When mounted at 9 ft (2.74 m), this sensor provides line of sight Passive Infrared (PIR) detection of walking type motions up to 28 ft (8.53 m) in all directions. Additionally, the **CM PDT 10** provides overlapping Microphonics™ technology to detect smaller motions and occupant movements that occur behind obstructions. This is important for classrooms filled with obstructions like shelving or hanging projects. When comparing small motion detection, the **CM PDT 10** far out performs dual technology sensors that are specified with 2,000 ft² of coverage. Spaces with low ceiling heights are also best covered by the **CM PDT 10**. For example, when mounted at the 7 ft (2.13 m) ceiling height of many distribution center pick aisles, the **CM PDT 10** provides a 32 ft (9.75 m) diameter pattern of coverage. Additionally, the **CM PDT 10** may be used in combination with other sensors to customize coverage for very large or irregularly shaped spaces.

SENSOR OPERATION

Sensors with Passive Dual Technology (PDT) first see motion using 100% digital Passive Infrared (PIR) detection and then engage Microphonics™ to hear sounds that indicate continued occupancy. This patented technology uses Automatic Gain Control (AGC) to dynamically self adapt a sensor to its environment by filtering out constant background noise and registering only noises typical of human activity. When occupancy is detected, a DC output goes high and can drive up to 200 mA of connected load. If needed, a 10 second grace period also allows the lights to be voice reactivated after shutting off. The sensor is powered with 12-24 VAC/VDC and typically operates with a **PP20** or **MP20** power pack, enabling complete 20 Amp circuits to be controlled.

LAMP MAXIMIZER®

This sensor also contains patent pending LampMaximizer technology that allows users to aggressively target energy savings while still protecting lamp life. A minimum on timer, factory set at 15 minutes, helps preserve lamp life by eliminating all lamp cycles shorter than lamp warranties specify. A standard occupancy time delay is also present that ensures lights turn off (assuming minimum on timer has elapsed) if no occupancy is detected. This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 20 minutes. These adjustments can be done manually, through the units push-button, or automatically every two weeks through an advanced mode, called LampMaximizer+, that determines the optimum time delay in order to maximize both lamp life and energy savings. Additionally, this sensor maintains statistics on total lamp on time and number of cycles.

OPTIC

LOW VOLTAGE RELAY (R)

- Enables sensors to interface with other systems (e.g., BMS, lighting panels)
- Provides dry contact closure via a SPDT, 1 Amp, 40 Volt relay
- Only one relay needed per zone
- Changes state when all connected sensors register unoccupied
- Relay requires sensor power to function

OCCUPANCY CONTROLLED DIMMING (D)

- Provides dimming output to control 0-10 VDC dimmable ballasts
- Provides a second occupancy time-out period that enables the lights to go to a dim setting before turning off
- Adjustable max/min dim setting
- Only one sensor per zone needs to have dimming output

PHOTOCELL (P)

- Auto set-point calibration
- Two selectable modes of operation
- On/Off mode: Photocell has full control during periods of occupancy
- Inhibit mode: Photocell can prevent lights from turning on if adequate daylight is available, but cannot turn lights off

PHOTOCELL W/ DIMMING (ADC)

- Photocell within sensor maintains total room light level by controlling levels of 0-10 VDC dimmable ballasts
- Photocell also has full on/off control during periods of occupancy
- Provides a second occupancy time-out period that enables the lights to go to a dim setting before turning off

Note: LampMaximizer+ features not available with ADC option

LOW TEMP/HIGH HUMIDITY (LT)

- Sensor is corrosion resistant to moisture
- Operates down to -4° F (-20° C)



TITLE 24
MADE in U.S.A.
5 YEAR WARRANTY

ORDERING INFO CM PDT 10 [RELAY] [DIMMING/PHOTOCELL] [TEMP/HUMIDITY]

RELAY

- Blank = None
- R = Low Voltage Relay

DIMMING / PHOTOCELL CHOOSE ONE ONLY

- Blank = None
- D = Occupancy Controlled Dimming
- P = Photocell
- ADC = Photocell w/ Dimming

TEMP/HUMIDITY

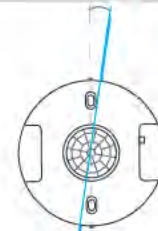
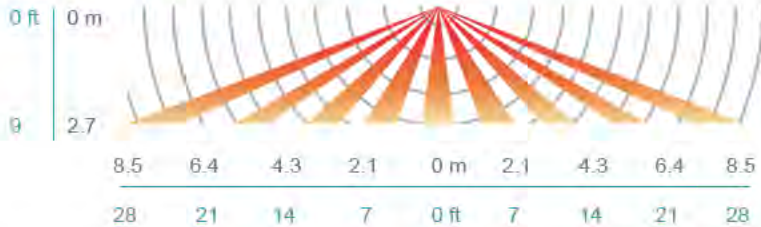
- Blank = Standard
- LT = Low Temp

COVERAGE PATTERN

10 EXTENDED RANGE 360° LENS WITH MICROPHONICS™

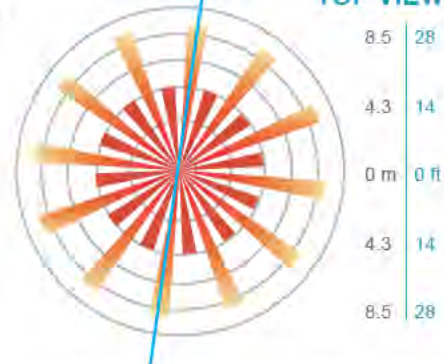
- Best choice for large motion (e.g. walking) detection
- Viewing angle of 67° in a 360° conical shaped pattern
- Provides 28 ft (8.53 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.

SIDE VIEW



Note: Sensor's screw axis is offset 7.5° from a long detection segment

TOP VIEW



WIRING (DO NOT WIRE HOT)

STANDARD WIRING

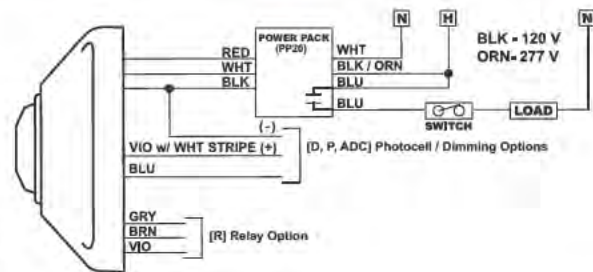
- RED** - Power Input (12-24 VAC/VDC)
- BLACK** - Common
- WHITE** - Occupancy State (high VDC for occupied)

PHOTOCELL/DIMMING OPTIONS (D, P, ADC)

BLUE - Direct output to power pack for providing photocell control and/or secondary dim time out. Output is high VDC with occupancy & low light. Output also held high during secondary dim time out. For multi-level control, use two power packs and connect White wire to primary load and Blue to daylight load.

VIOLET w/ WHITE STRIPE - Connect to 0-10 VDC control wire (typically Violet) from 0-10 VDC dimmable ballast

GRAY from Ballast - Connect to sensor Black wire

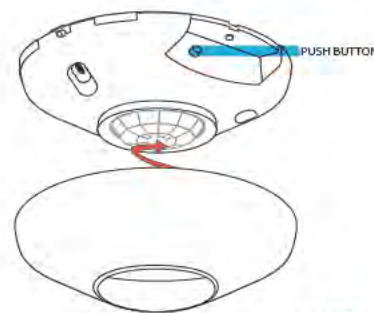


RELAY OPTION (R)

- GRAY / BROWN** - Connected during occupied state
 - VIOLET / BROWN** - Connected during unoccupied state
- Note:** Relay is energized during unoccupied state

INSTALLATION

- Mount sensor directly to a ceiling tile or a metallic grid (two self-tapping screws provided).
- Sensor's mounting holes also align with 3.5" octagon or single gang handy box (screws not provided).
- Sensor will detect motions crossing segments more effectively than motions parallel to beams.
- For optimal detection, position sensor such that segments are crossed upon entrance and unable to view outside the space.
- For maximum Microphonics™ sensitivity, avoid locating sensor near HVAC air diffusers.



*At 9ft Mtg.

- A:** When walking across beam, detection will occur at approximately 28 ft (8.53 m)
- B:** When walking into beam, detection will occur at approximately 24 ft (7.32 m)

PROGRAMMING

Refer to instruction card IC7.001 for default settings and directions on programming the sensor via the push-button.

sensorswitch

An Acuity Brands Company

900 Northrop Road, Wallingford, CT 06492 • 1.800.PASSIVE • FX 203.269.9621 • www.sensorswitch.com

WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.
LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.

TS-CM-004A



WALL SWITCH DECORATOR SENSOR LINE VOLTAGE • 2-POLE • PASSIVE INFRARED (PIR)

SPECIFICATIONS

FEATURES

- PIR Occupancy Detection
- Two Self-Contained Relays - No Power Packs Needed
- 1st Pole Auto-On, 2nd Pole Manual-On Interchangeable Hot & Load Wires - Impossible to Wire Backwards
- No Neutral Connection Required
- Small Motion Detection to 20 ft (6.10 m)
- Self-Grounding Mounting Strap
- No Minimum Load
- Adjustable Time Delay / Pole
- Replaces Two Switches at Once
- Push-Button Programmable w/o Removing the Switch Plate
- Green LED Indicator

PHYSICAL SPECS

- SIZE** (not including mounting strap)
2.74"H x 1.68"W x 1.63"D
(6.96cm x 4.27cm x 4.14cm)
- WEIGHT** 5 oz
- MOUNTING** Single Gang Switch Box
- MOUNTING HEIGHT** 30-48 in
(76.2-121.9 cm)
- COLORS** White, Ivory, Gray, Almond, Black

ELECTRICAL SPECS

- MAXIMUM LOAD / POLE**
800 W @ 120 VAC
1200 W @ 277 VAC
1500 W @ 347 VAC
- MINIMUM LOAD** None
- MOTOR LOAD** 1/4 HP
- FREQUENCY** 50/60 Hz
(timers are 1.2x for 50 Hz)

ENVIRONMENTAL SPECS

- OPERATING TEMP**
14° to 160° F (-10° to 71° C)
- STORAGE TEMP**
-14° to 160° F (-26° to 71° C)
- RELATIVE HUMIDITY**
20 to 90% non-condensing

OTHER

- UL and CUL Listed
- Title 24 Compliant
- 5 Year Warranty
- Made in the U.S.A.

The WSD 2P Series is a Wall Switch Decorator style Passive Infrared (PIR) sensor designed to control two independent loads. Utilizing two isolated power relays, the WSD 2P is factory set to automatically turn load 1 on when initial occupancy is detected while holding load 2 off until the push-button is pressed. Although perfect for rooms wired for bi-level lighting, the WSD 2P is also convenient for controlling multiple load types and/or voltages (for example a restroom light and fan). For rooms with obstructions, the Dual Technology WSD PDT 2P should be used. Additionally, the settings of the WSD 2P Series sensors can be programmed, without removing the switch plate, by entering simple command sequences via the push-button.

SENSOR OPERATION

The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, the 1st Pole's relay will switch on the connected load. The 2nd Pole's relay can be switched on by pressing the units push-button. The sensor is line powered and switches line voltage (see specifications). Two timers, each factory set at 10 minutes, keep the lights on during brief periods of inactivity. These timers are each push-button programmable from 30 seconds to 20 minutes, and are reset every time occupancy is re-detected. This state-of-the-art design requires no field calibration or sensitivity adjustments.

OPTIONS

VANDAL-RESIST

- Ideal for high abuse or public areas, where occupants simply come and go
- Decreases detection range by 50%

PHOTOCELL (P)

- Auto set-point calibration
- Maintains two set-points, enabling separate control of both poles
- Photocell prevents lights from turning on if adequate daylight is available, but does not turn lights off

347 VAC (347)

- Allows sensor to be powered from and switch 347 VAC
- Wall plate provided

COLOR

- White, Ivory, Gray, Almond, Black
- Wall plate provided
- Must be specified

LOW TEMP/HIGH HUMIDITY (LT)

- Sensor is corrosion resistant
- Operates down to -40° F/C

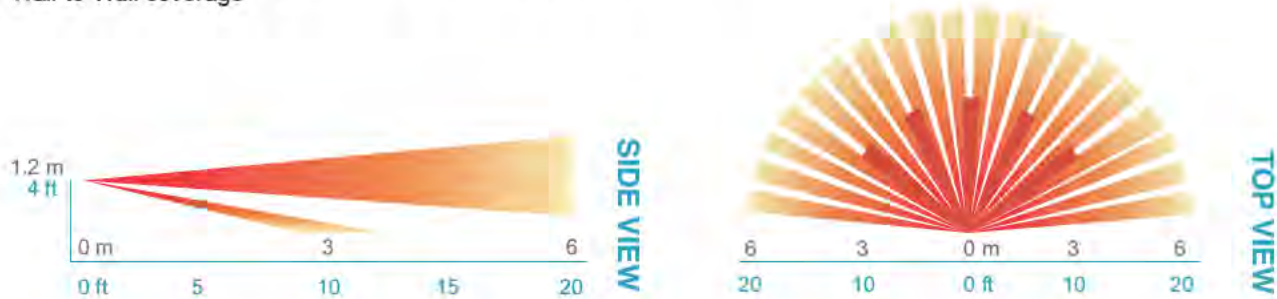
ORDERING INFO WSD 2P [LENS] [PHOTOCELL] [VOLTAGE] [COLOR] [TEMP/HUMIDITY]

| LENS | PHOTOCELL | VOLTAGE | COLOR | TEMP/HUMIDITY |
|--------------------------------------|-------------------------------|--------------------------------------|--|-----------------------------------|
| Blank = None V = Vandal Resistant | Blank = None P = Photocell | Blank = 120/277 VAC 347 = 347 VAC | WH = White IV = Ivory GY = Gray AL = Almond BK = Black | Blank = Standard LT = Low Temp |

COVERAGE PATTERN

WSD WALL SWITCH DECORATOR LENS

- Small motion (e.g. hand movements) detection up to 20 ft (6.10 m)
- Large motion (e.g. walking) detection up to 50 ft (15.24 m)
- Wall-to-Wall coverage



CONTROL MODES

ON MODES (programmable per pole)

AUTOMATIC ON (default Pole 1) - Lights come on when occupancy is detected.

MANUAL ON (default Pole 2) - Requires the occupant to manually turn on the lights via the push-button.

REDUCED TURN ON - Sensor is initially set to only detect large motions, effectively ignoring any PIR signals reflected off of surfaces, while still sensing occupants when they enter the room. Once lights are on, the sensor returns to maximum sensitivity.

SWITCH MODES (programmable per pole)

PREDICTIVE OFF MODE (default Pole 1) - This mode allows occupants to turn lights off via the switch without losing the convenience of having the lights automatically turn on when they re-enter the room. Pressing the switch turns the lights off and temporarily disables the occupancy detection in the sensor. After a short exit time delay, the occupancy detection reactivates and monitors for an additional grace period. If no occupancy is detected, the zone will remain in Automatic On operation. If occupancy is detected, the zone will go to a Permanent Off mode, requiring the switch to be pressed again in order to turn the lights on and restore the sensor to Automatic On operation.

PERMANENT OFF (default Pole 2) - Pressing the switch turns the lights and the sensor off. Lights will not come on until switch is pressed again.

SWITCH DISABLE - Prevents user from manually turning off the lights via the push-button. Button can still be utilized for programming.

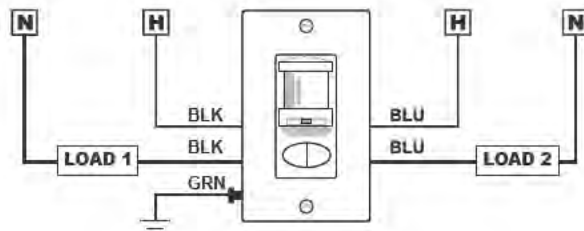
WIRING (DO NOT WIRE HOT)

STANDARD WIRING

- BLACK* - Line Input 1
 - BLACK* - Load Output 1
 - BLUE** - Line Input 2
 - BLUE** - Load Output 2
 - GREEN SCREW - Ground (required connection)
- *BLACK wires can be reversed
**BLUE wires can be reversed

347 VAC OPTION (347)

Black wires are replaced w/ Red wires



Note: Connection to Ground required for sensor to function. Unit powers off BLK Hot (Line) Input

WARNING

Fire Hazard Caution: Maximum Lamps 1500 Watts, Type 347 VAC.

Attention: Risque d'incendie : Puissance Maximales Des Lampes 1500 Watts, Type 347 VAC.

Warning: The units are intended to be installed by a qualified person with properly rated branch circuit protectors as per applicable local and national regulations (CEC, NEC).

sensorswitch

An AcuityBrands Company

900 Northrop Road, Wallingford, CT 06492 • 1.800.PASSIVE • FX 203.269.9621 • www.sensorswitch.com

WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.

LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.

T064-004-P



WIDE VIEW SENSOR CORNER MOUNT • LOW VOLTAGE • DUAL TECHNOLOGY (PDT)

SPECIFICATIONS

FEATURES

- PIR Occupancy Detection
- 120° by 40 ft (12.19 m) Coverage for Small Motion
- Adjustable Time Delay
- 100 Hr. Lamp Burn-In Timer Mode
- Green LED Indicator

PHYSICAL SPECS

- SIZE 3.0" H x 3.6" W x 1.75" D (7.62 cm x 9.14 cm x 4.45 cm)
- WEIGHT 5 oz
- MOUNTING Directly to corner or to ceiling using **WV BR** bracket
- COLOR White

ELECTRICAL SPECS

- OPERATING VOLTAGE 12-24 VAC/VDC
- CURRENT DRAW Standard, 4 mA w/ R option, 16 mA
- RECOMMENDED POWER PACK PP20

ENVIRONMENTAL SPECS

- OPERATING TEMP 14° to 160° F (-10° to 71° C)
- STORAGE TEMP -14° to 160° F (-26° to 71° C)
- RELATIVE HUMIDITY 20 to 90% non-condensing

OTHER

- UL and CUL Listed
- Title 24 Compliant
- 5 Year Warranty
- Made in the U.S.A.

Classrooms are the ideal application for the **WV PDT 16** Dual Technology Wide View Sensor. Installed in the corner of the room along the entrance wall, this inconspicuous sensor provides line of sight PIR detection of small movements up to 40 ft (12.19 m) away, and combines overlapping Microphonics™ for detection around obstructions. Many classrooms are filled with shelving, projects, or lab benches. Total coverage of the room is always maintained no matter how cluttered the space becomes. The **WV PDT 16** is also used in corridors due to its ability to view up to 70 ft (21.34 m) for walking motions, or large open storage areas where obstructions may block the PIR's ability to view. For large lecture halls, multiple **WV PDT 16s** may be wired together, or along with any other low voltage sensors.

SENSOR OPERATION

The sensor has Passive Dual Technology (PDT), which first sees motion using Passive Infrared (PIR), and then engages Microphonics™ to hear sounds that indicate continued occupancy. This patented technology uses Automatic Gain Control (AGC) to dynamically self-adapt the sensor to its environment by filtering out constant background noise and detecting only noises typical of human activity. When occupancy is detected, a DC output goes high and can drive up to 200 mA of connected load. The sensor is powered with 12-24 VAC/VDC and typically operates with a **PP20** or **MP20** power pack, enabling complete 20 Amp circuits to be controlled. An internal timer, factory set at 10 minutes, keeps the lights on during brief periods of inactivity. This timer is push-button programmable from 30 seconds to 20 minutes, and is reset every time occupancy is re-detected. This state-of-the-art sensor requires no field calibration or adjustment.

OPTIONS

LOW VOLTAGE RELAY (R)

- Enables sensors to interface with other systems (e.g., BMS, lighting panels)
- Provides dry contact closure via a SPDT, 1 Amp, 40 Volt relay
- Only one relay needed per zone
- Changes state when all connected sensors register unoccupied
- Relay requires sensor power to function

PHOTOCELL (P)

- Auto set-point calibration
- Two selectable modes of operation
- On/Off mode: Photocell has full control during periods of occupancy
- Inhibit mode: Photocell can prevent lights from turning on if adequate daylight is available, but cannot turn lights off

LOW TEMP/HIGH HUMIDITY (LT)

- Sensor is corrosion resistant to moisture
- Operates down to -4° F/ 20° C

ORDERING INFO WV PDT 16 [RELAY] [PHOTOCELL] [TEMP/HUMIDITY]

RELAY

- Blank = None
- R = Low Voltage Relay

PHOTOCELL

- Blank = None
- P = Photocell

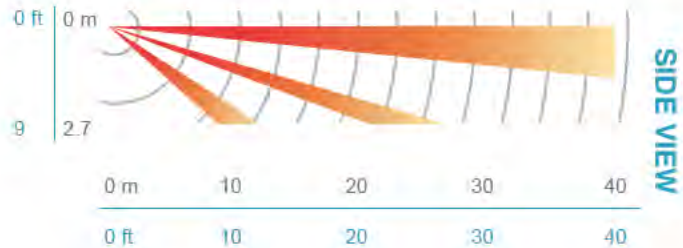
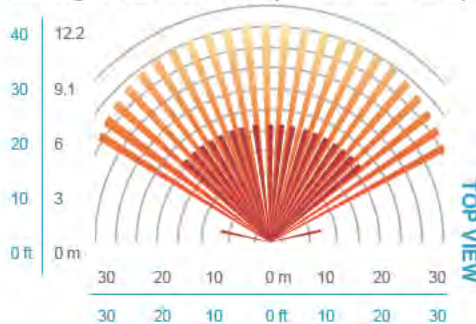
TEMP/HUMIDITY

- Blank = Standard
- LT = Low Temp

COVERAGE PATTERN

16 WIDE VIEW LENS WITH MICROPHONICS™

- Small motion (e.g. **hand movements**) detection up to 40 ft (12.19 m).
- Large motion (e.g. **walking**) detection up to 70 ft (21.34 m).
- Designed for 8 to 10 ft (2.44 to 3.05 m) high mounting in room corner.
- Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.



WIRING (DO NOT WIRE HOT)

STANDARD WIRING

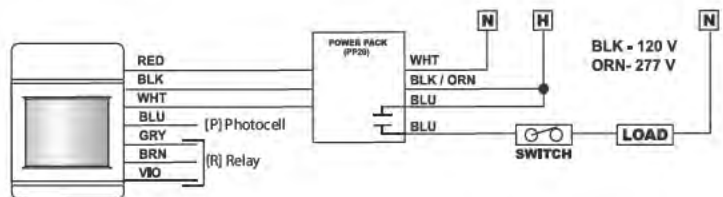
- RED** - Power Input (12-24 VAC/VDC)
- BLACK** - Common
- WHITE** - Output (high VDC for occupancy)

RELAY OPTION (R)

- GRAY/BROWN - Connected during occupied state
- VIOLET/BROWN - Connected during unoccupied state
- Note: Relay is energized during unoccupied state.

PHOTOCELL OPTION (P)

- BLUE** - Use in place of White output wire. Photocell output is high VDC with occupancy & low light.
- For multi-level control, use two power packs and connect White to primary load and Blue to daylight load.



INSTALLATION

- Sensor has rear enclosure, which is beveled so as to be corner mounted at 8-10 ft (2.44-3.05 m); see tilt settings below.
- Mount in corner above entrance door or in a corner along the same wall as the entrance.
- For mounting heights above 10 ft (3.05 m), use the **WV BR** and mount sensor to angled side to provide an initial 30° look down.

TILT ADJUSTMENT Mounting Height Position

- | | |
|-----------|------------------|
| 7' - 8' | Vertical |
| 8' - 9' | Center |
| 9' - 10' | Forward |
| Above 10' | Use WV BR |



CEILING MOUNT BRACKET (WV BR)

The **WV BR** Ceiling Mount Bracket allows the **WV PDT 16** to be mounted in the corner of the area from the ceiling for conditions where mounting to the wall is not possible.



PROGRAMMING

Refer to included instruction card for default settings and directions on programming the sensor via the push-button.



An Acuity Brands Company

WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.

LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.

T069-004P

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 |
|----------------|--------------|----------------|--------------|
| 9110-3676-01 | | | |
| | | | |
| | | | |
| | | | |

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 type="checkbox"/> All sections of appropriate application(s) are completed | <input type="checkbox"/> Proof of payment.* | <input type="checkbox"/> Manufacturer's Spec sheets | <input type="checkbox"/> Energy model/calculations and detailed inputs for Custom applications |
|---|---|---|--|

* 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 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 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 type="checkbox"/> MSD Custom General Worksheet <input 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 checked="" 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 Ohio Chillers / Thermal Storage Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572

Is this application: **NEW** (original) or **REVISED** (changes made to original application)

| Building Type – Required (check one) | | |
|--|--|---|
| <input type="checkbox"/> Data Centers | <input type="checkbox"/> Full Service Restaurant | <input type="checkbox"/> Office |
| <input checked="" type="checkbox"/> Education/K-12 | <input type="checkbox"/> Healthcare | <input type="checkbox"/> Public Assembly |
| <input type="checkbox"/> Education Other | <input type="checkbox"/> Industrial | <input type="checkbox"/> Public Order/Safety |
| <input type="checkbox"/> Elder Care/Nursing Home | <input type="checkbox"/> Lodging | <input type="checkbox"/> Religious Worship/Church |
| <input type="checkbox"/> Food Sales/Grocery | <input type="checkbox"/> Retail (Small Box) | <input type="checkbox"/> Service |
| <input type="checkbox"/> Fast Food Restaurant | <input type="checkbox"/> Retail (Big Box) | <input type="checkbox"/> Warehouse |
| <input type="checkbox"/> Other: | | |

| How did you hear about the program? (check one) | | |
|---|--------------------------------------|--------------------------------|
| <input type="checkbox"/> Duke Energy Representative | <input type="checkbox"/> Web Site | <input type="checkbox"/> Radio |
| <input checked="" type="checkbox"/> Contractor / Vendor | <input type="checkbox"/> Other _____ | |

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

| | | | |
|--|---|--|--|
| <input type="checkbox"/> All sections of application | <input type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer | <input type="checkbox"/> Tax ID number for payee | <input type="checkbox"/> Customer/vendor agree to Terms and Conditions |
|--|---|--|--|

| Customer Information | | | |
|---|---------------------------|--------------------|--------------|
| Customer/Business | Cincinnati Public Schools | Contact | Don Elbe |
| Phone | 614-580-3352 | Account Number | 9110-3676-01 |
| Street Address (Where incentive should be mailed) | | 2651 Burnett Ave | |
| City | Cincinnati | State | OH |
| | | Zip Code | 45219 |
| Installation Street Address | | 5945 Montgomery Rd | |
| City | Cincinnati | State | OH |
| | | Zip Code | 45213 |
| E-mail Address | | | |

**Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.*

| Vendor Information | | | |
|--------------------|--------------|-----------------------------|----------------|
| Vendor | Plug Smart | Contact | Lucas Dixon |
| Phone | 614-580-3352 | Fax | 1-800-518-5576 |
| Street Address | | 1275 Kinnear Road Suite 229 | |
| City | Columbus | State | OH |
| | | Zip Code | 43212 |
| E-mail Address | | | |

If Duke Energy has questions about this application, who should we contact? Customer Vendor

| Payment Information | |
|---|---|
| Who should receive incentive payment? | <input checked="" type="checkbox"/> Customer <input type="checkbox"/> Vendor (Customer must sign below) |
| I hereby authorize payment of incentive directly to the vendor: | Customer Signature (written signature) |
| | Date |
| Provide Tax ID Number for Payee | Customer Tax ID # |
| | Vendor Tax ID # |

| Terms and Conditions | | | |
|--|--------------------|------------------|--------------------|
| I have read and hereby agree to the Terms & Conditions and Program Requirements. | | | |
| Customer Signature | <i>Don Elbe</i> | Vendor Signature | <i>[Signature]</i> |
| Date | 11-23-11 | Date | 11/23/2011 |
| Title | Utility Mgmt Coord | Title | Project Manager |

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

See Page 4 of form for required efficiency levels and equipment eligibility

| Air Cooled Chillers | | | | | | | | | |
|--|------------|-------------------|----------------------|---------------------|-----------------|---------------------|------------------|--|--------------------|
| Make/Model # Scroll/Screw Type | # of Units | AHRI Tons/Unit | Full-load kW/ton* | Incentive \$/ton | IPLV kW/ton* | Incentive \$/ton | Building Type | Date Installed & Operable (mm/yy) | Total Incentive |
| York YCAV0227PA46 | 1 | 221 | 10.8 | \$12.50 | .817 | \$8.35 | School | 8/19/2008 | \$4,607.85 |
| | | | | | | | | | |
| * Chiller performance and IPLV must be tested under AHRI conditions - submit documentation of compliance | | | | | | | | | |

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

See Page 4 of form for required efficiency levels and equipment eligibility

| Water Cooled Chillers | | | | | | | | | | |
|--|--------------|---------------|-------------------|----------------------|---------------------|-----------------|---------------------|------------------|--|--------------------|
| Description | Make/Model # | # of Units | AHRI Tons/Unit | Full-load kW/ton* | Incentive \$/ton | IPLV kW/ton* | Incentive \$/ton | Building Type | Date Installed & Operable (mm/yy) | Total Incentive |
| <input type="checkbox"/> Screw/Scroll Chiller <input type="checkbox"/> Centrifugal Chiller | | | | | | | | | | |
| <input type="checkbox"/> Screw/Scroll Chiller <input type="checkbox"/> Centrifugal Chiller | | | | | | | | | | |
| <input type="checkbox"/> Screw/Scroll Chiller <input type="checkbox"/> Centrifugal Chiller | | | | | | | | | | |
| * Chiller performance and IPLV must be tested under AHRI conditions - submit documentation of compliance | | | | | | | | | | |

Thermal Storage Incentives

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

| Thermal Storage System Specifications* | |
|--|---|
| Manufacturer of Thermal Storage Equipment | |
| Type of Thermal Storage | <input type="checkbox"/> Chilled Water <input type="checkbox"/> Ice Bank <input type="checkbox"/> Ice Harvester |
| Model Number | |
| Controls Manufacturer | |
| Control Strategy | <input type="checkbox"/> Demand Limiting <input type="checkbox"/> Maximum Cooling Shift |
| Number of Thermal Storage Units | |
| Partial or Full Storage | <input type="checkbox"/> Partial Storage <input type="checkbox"/> Full Storage |
| Demand Shifted (kW)XX | |
| Storage Capacity (Ton Hours) | |
| Storage Capacity (Gallons If Applicable) | |
| Peak Cooling Load (Tons) | |
| Cooled Area (sq. ft.) | |
| Hours of Operations M-F | |
| Hours of Operations Sat | |
| Hours of Operations Sun | |
| Date Installed and Operable (mm/yy) | |
| Thermal Storage chiller Plant Description (Manufacturer, Tonnage, Ice Making kW/ton) | |
| Condenser Type | <input type="checkbox"/> Air Cooled <input type="checkbox"/> Water Cooled |
| Premium cost for Thermal Storage (Dollars) | |
| Annual Electrical Operating Cost with Storage (Dollars) | |
| Annual Savings as a result of Thermal Storage (Dollars) | |
| Simple Payback including Incentive (Years) | |
| Total Incentive (\$190/kW shifted) | |
| | |
| Conventional System Specifications (For Comparison Purposes) | |
| Chiller Plant Description (Manufacturer, type, tonnage, AHRI kW/ton) | |
| Chiller Demand (kW) | |
| Annual Electrical Operating Cost with Conventional Cooling | |

*Thermal Storage Units with a >1MW load shift are not eligible for incentives under the Prescriptive Program but can be considered for custom incentives. The Custom application and process document are located on the Self Direct websites.

** Average demand shifted during the peak demand timeframe of 10:00am to 6:00pm for summer months of May through September.

Equipment Requirements

Chillers Incentive Table & AHRI Rated Efficiency Requirements*

| AIR COOLED CHILLERS – All Sizes | | | |
|--|-----------------------|-----------------------------|-----------------------------|
| Total Incentive = Base + Additional | | | |
| Scroll/Screw Type Chillers | | | |
| Full load kW/ton – EER | Base Incentive \$/ton | Part Load IPLV kW/ton – EER | Additional Incentive \$/ton |
| 1.230 - 9.80 | \$4.00 | 1.130 - 10.60 | |
| 1.230 - 9.80 | \$4.00 | 1.010 - 11.90 | \$5.83 |
| 1.230 - 9.80 | \$4.00 | 0.890 - 13.50 | \$12.07 |
| 1.230 - 9.80 | \$4.00 | 0.810 - 14.80 | \$15.75 |
| 1.142 – 10.50 | \$12.50 | 1.046 – 11.50 | |
| 1.142 – 10.50 | \$12.50 | 0.925 – 13.00 | \$6.00 |
| 1.142 – 10.50 | \$12.50 | 0.879 – 13.70 | \$8.35 |
| 1.142 – 10.50 | \$12.50 | 0.674 – 17.80 | \$18.60 |
| 1.046 – 11.50 | \$15.00 | 0.961 – 12.50 | |
| 1.046 – 11.50 | \$15.00 | 0.847 – 14.20 | \$5.70 |
| 1.046 – 11.50 | \$15.00 | 0.795 – 15.10 | \$8.30 |
| 1.046 – 11.50 | \$15.00 | 0.618 – 19.40 | \$17.15 |
| WATER COOLED CHILLERS – < 150 tons | | | |
| Total Incentive = Base + Additional | | | |
| Screw/Scroll Type Chiller | | | |
| Full load kW/ton – EER | Base Incentive \$/ton | Part Load IPLV kW/ton – EER | Additional Incentive \$/ton |
| 0.790 – 15.20 | \$2.50 | 0.620 – 19.40 | |
| 0.790 – 15.20 | \$2.50 | 0.590 – 20.30 | \$1.50 |
| 0.790 – 15.20 | \$2.50 | 0.550 – 21.80 | \$3.50 |
| 0.790 – 15.20 | \$2.50 | 0.510 – 23.50 | \$5.50 |
| 0.790 – 15.20 | \$2.50 | 0.470 – 25.50 | \$7.50 |
| 0.710 – 16.90 | \$7.50 | 0.630 – 19.00 | |
| 0.710 – 16.90 | \$7.50 | 0.560 – 21.40 | \$3.50 |
| 0.710 – 16.90 | \$7.50 | 0.530 – 22.60 | \$5.00 |
| 0.710 – 16.90 | \$7.50 | 0.500 – 24.00 | \$6.50 |
| 0.710 – 16.90 | \$7.50 | 0.460 – 26.10 | \$8.50 |
| 0.710 – 16.90 | \$7.50 | 0.430 – 27.90 | \$10.00 |
| 0.630 – 19.00 | \$10.00 | 0.560 – 21.40 | |
| 0.630 – 19.00 | \$10.00 | 0.500 – 24.00 | \$3.00 |
| 0.630 – 19.00 | \$10.00 | 0.470 – 25.50 | \$4.50 |
| 0.630 – 19.00 | \$10.00 | 0.440 – 27.30 | \$6.00 |
| 0.630 – 19.00 | \$10.00 | 0.410 – 29.30 | \$7.50 |
| 0.630 – 19.00 | \$10.00 | 0.380 – 31.60 | \$9.00 |
| Centrifugal Type Chiller | | | |
| 0.700 – 17.10 | \$2.50 | 0.570 – 21.10 | |
| 0.700 – 17.10 | \$2.50 | 0.530 – 22.60 | \$2.00 |
| 0.700 – 17.10 | \$2.50 | 0.500 – 24.00 | \$3.50 |
| 0.700 – 17.10 | \$2.50 | 0.420 – 28.60 | \$7.50 |
| 0.630 – 19.00 | \$7.50 | 0.600 – 20.00 | |
| 0.630 – 19.00 | \$7.50 | 0.510 – 23.50 | \$4.50 |
| 0.630 – 19.00 | \$7.50 | 0.480 – 25.00 | \$6.00 |
| 0.630 – 19.00 | \$7.50 | 0.450 – 26.70 | \$7.50 |
| 0.630 – 19.00 | \$7.50 | 0.380 – 31.60 | \$11.00 |
| 0.560 – 21.40 | \$10.00 | 0.530 – 22.60 | |
| 0.560 – 21.40 | \$10.00 | 0.460 – 26.10 | \$3.50 |
| 0.560 – 21.40 | \$10.00 | 0.430 – 27.90 | \$5.00 |
| 0.560 – 21.40 | \$10.00 | 0.400 – 30.00 | \$6.50 |
| 0.560 – 21.40 | \$10.00 | 0.340 – 35.30 | \$9.50 |

*AHRI Standard 550/590

2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.

WATER COOLED CHILLERS – 150-300 tons
Total Incentive = Base + Additional

Screw/Scroll Type Chiller

| Full load kW/ton – EER | Base Incentive \$/ton | Part Load IPLV kW/ton – EER | Additional Incentive \$/ton |
|------------------------|-----------------------|-----------------------------|-----------------------------|
| 0.720 – 16.70 | \$2.50 | 0.570 – 21.10 | |
| 0.720 – 16.70 | \$2.50 | 0.540 – 22.20 | \$1.50 |
| 0.720 – 16.70 | \$2.50 | 0.500 – 24.00 | \$3.50 |
| 0.720 – 16.70 | \$2.50 | 0.470 – 25.50 | \$5.00 |
| 0.720 – 16.70 | \$2.50 | 0.430 – 27.90 | \$7.00 |
| 0.650 – 18.50 | \$7.50 | 0.570 – 21.10 | |
| 0.650 – 18.50 | \$7.50 | 0.510 – 23.50 | \$3.00 |
| 0.650 – 18.50 | \$7.50 | 0.480 – 25.00 | \$4.50 |
| 0.650 – 18.50 | \$7.50 | 0.450 – 26.70 | \$6.00 |
| 0.650 – 18.50 | \$7.50 | 0.420 – 28.60 | \$7.50 |
| 0.650 – 18.50 | \$7.50 | 0.390 – 30.80 | \$9.00 |
| 0.570 – 21.10 | \$10.00 | 0.510 – 23.50 | |
| 0.570 – 21.10 | \$10.00 | 0.450 – 26.70 | \$3.00 |
| 0.570 – 21.10 | \$10.00 | 0.430 – 27.90 | \$4.00 |
| 0.570 – 21.10 | \$10.00 | 0.400 – 30.00 | \$5.50 |
| 0.570 – 21.10 | \$10.00 | 0.370 – 32.40 | \$7.00 |
| 0.570 – 21.10 | \$10.00 | 0.340 – 35.30 | \$8.50 |

Centrifugal Type Chiller

| | | | |
|---------------|---------|---------------|---------|
| 0.630 – 19.00 | \$2.50 | 0.510 – 23.50 | |
| 0.630 – 19.00 | \$2.50 | 0.480 – 25.00 | \$1.50 |
| 0.630 – 19.00 | \$2.50 | 0.450 – 26.70 | \$3.00 |
| 0.630 – 19.00 | \$2.50 | 0.380 – 31.60 | \$6.50 |
| 0.570 – 21.10 | \$7.50 | 0.540 – 22.20 | |
| 0.570 – 21.10 | \$7.50 | 0.460 – 26.10 | \$4.00 |
| 0.570 – 21.10 | \$7.50 | 0.430 – 27.90 | \$5.50 |
| 0.570 – 21.10 | \$7.50 | 0.400 – 30.00 | \$7.00 |
| 0.570 – 21.10 | \$7.50 | 0.340 – 35.30 | \$10.00 |
| 0.510 – 23.50 | \$10.00 | 0.480 – 25.00 | |
| 0.510 – 23.50 | \$10.00 | 0.410 – 29.30 | \$3.50 |
| 0.510 – 23.50 | \$10.00 | 0.390 – 30.80 | \$4.50 |
| 0.510 – 23.50 | \$10.00 | 0.360 – 33.30 | \$6.00 |
| 0.510 – 23.50 | \$10.00 | 0.300 – 40.00 | \$9.00 |

*AHRI Standard 550/590

2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.

WATER COOLED CHILLERS – >300 tons
Total Incentive = Base + Additional
Screw/Scroll Type Chiller

| Full load kW/ton – EER | Base Incentive \$/ton | Part Load IPLV kW/ton – EER | Additional Incentive \$/ton |
|------------------------|-----------------------|-----------------------------|-----------------------------|
| 0.640 – 18.75 | \$2.50 | 0.510 – 23.50 | |
| 0.640 – 18.75 | \$2.50 | 0.480 – 25.00 | \$1.50 |
| 0.640 – 18.75 | \$2.50 | 0.450 – 26.70 | \$3.00 |
| 0.640 – 18.75 | \$2.50 | 0.420 – 28.60 | \$4.50 |
| 0.640 – 18.75 | \$2.50 | 0.380 – 31.60 | \$6.50 |
| 0.580 – 20.70 | \$7.50 | 0.510 – 23.50 | |
| 0.580 – 20.70 | \$7.50 | 0.450 – 26.70 | \$3.00 |
| 0.580 – 20.70 | \$7.50 | 0.430 – 27.90 | \$4.00 |
| 0.580 – 20.70 | \$7.50 | 0.400 – 30.00 | \$5.50 |
| 0.580 – 20.70 | \$7.50 | 0.370 – 32.40 | \$7.00 |
| 0.580 – 20.70 | \$7.50 | 0.350 – 34.30 | \$8.00 |
| 0.510 – 23.50 | \$10.00 | 0.460 – 26.10 | |
| 0.510 – 23.50 | \$10.00 | 0.400 – 30.00 | \$3.00 |
| 0.510 – 23.50 | \$10.00 | 0.380 – 31.60 | \$4.00 |
| 0.510 – 23.50 | \$10.00 | 0.360 – 33.30 | \$5.00 |
| 0.510 – 23.50 | \$10.00 | 0.330 – 36.40 | \$6.50 |
| 0.510 – 23.50 | \$10.00 | 0.310 – 38.70 | \$7.50 |

Centrifugal Type Chiller

| | | | |
|---------------|---------|---------------|--------|
| 0.580 – 20.70 | \$2.50 | 0.470 – 25.50 | |
| 0.580 – 20.70 | \$2.50 | 0.440 – 27.30 | \$1.50 |
| 0.580 – 20.70 | \$2.50 | 0.410 – 29.30 | \$3.00 |
| 0.580 – 20.70 | \$2.50 | 0.350 – 34.30 | \$6.00 |
| 0.520 – 23.10 | \$7.50 | 0.490 – 24.50 | |
| 0.520 – 23.10 | \$7.50 | 0.420 – 28.60 | \$3.50 |
| 0.520 – 23.10 | \$7.50 | 0.390 – 30.80 | \$5.00 |
| 0.520 – 23.10 | \$7.50 | 0.370 – 32.40 | \$6.00 |
| 0.520 – 23.10 | \$7.50 | 0.310 – 38.70 | \$9.00 |
| 0.460 – 26.10 | \$10.00 | 0.440 – 27.30 | |
| 0.460 – 26.10 | \$10.00 | 0.370 – 32.40 | \$3.50 |
| 0.460 – 26.10 | \$10.00 | 0.350 – 34.30 | \$4.50 |
| 0.460 – 26.10 | \$10.00 | 0.330 – 36.40 | \$5.50 |
| 0.460 – 26.10 | \$10.00 | 0.280 – 42.90 | \$8.00 |

*AHRI Standard 550/590

2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.

Thermal Storage Incentives

| | Incentive |
|----------------------|-----------------|
| THERMAL STORAGE UNIT | \$95/kW shifted |

Program Requirements

Equipment Eligibility

- Duke Energy will use the AHRI database for verifying equipment efficiencies for all the chillers. If the equipment or matched set is not in the AHRI database, the manufacturer's technical fact sheets must be provided showing the efficiency level tested under AHRI conditions as described in AHRI standard 550/590. Equipment capacity (size) and efficiency must be based on AHRI design conditions. Full load efficiency rating (FL) and Integrated Part load Value (IPLV) must be provided for all chillers.
- Incentives for chillers will be paid based on the AHRI tons per unit.
- EER/COP and IPLV values shall include all connected loads, such as compressors, condenser fans, and control kW. Chiller components, such as motors and VFDs, are incented as part of the chiller package and are not independently eligible for prescriptive incentives during a chiller replacement
- Chiller incentives are only available for HVAC space cooling applications. All equipment installed must serve as a primary source of cooling for the facility. Industrial process cooling may qualify for a custom incentive.
- Chillers purchased and installed for backup or redundant systems are not eligible.
- Thermal Storage Units with a >1MW load shift are not eligible for incentives under the Prescriptive Program but can be considered for custom incentives.
- All equipment must be new to be eligible for incentives. Used equipment is **not** eligible for incentives.

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and its affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties), and 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.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application.
3. Purchase and install eligible energy-efficient equipment.
4. Complete and submit application for equipment that was installed after 1/1/2008.
5. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
6. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
8. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
8. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

Mercantile Self Direct Incentive Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.
- Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by faxing the Vendor Participation Agreement (VPA) to **513-419-5572** or **emailing to SelfDirect@duke-energy.com**.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.

Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.

- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call **1-866.380.9580** or visit www.duke-energy.com.



Mercantile Self Direct Rebate Program

| Technology | Responsible for sales and not installs* | Responsible for sales and Installation* | Technology | Responsible for sales and not installs* | Responsible for sales and Installation* |
|--|--|--|--------------------|--|--|
| Lighting | <input type="checkbox"/> | <input type="checkbox"/> | Thermal Storage | <input type="checkbox"/> | <input type="checkbox"/> |
| Heating Ventilation & Cooling | <input type="checkbox"/> | <input type="checkbox"/> | Pumps/Motors/VFD's | <input type="checkbox"/> | <input type="checkbox"/> |
| Food Service | <input type="checkbox"/> | <input type="checkbox"/> | Chillers | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Heating | <input type="checkbox"/> | <input type="checkbox"/> | Refrigeration | <input type="checkbox"/> | <input type="checkbox"/> |
| Process Equipment (air compressors, injection molding, etc.) | <input type="checkbox"/> | <input type="checkbox"/> | Window Film | <input type="checkbox"/> | <input type="checkbox"/> |

* Check all that apply

Vendors who wish to be listed as a Mercantile Self Direct Incentive Program participating Vendor shall complete this form. A signed copy of this form must be on file at Duke Energy in order for the Vendor to receive incentive payments. Fax form to **513-419-5572** or email to SelfDirect@duke-energy.com.

I have read and understand the Mercantile Self Direct Incentive Program Requirements for Vendor Participation, and I agree to comply with all requirements set forth therein. By signing this agreement, I agree to provide my customers with information and documentation that is true and accurate to the best of my knowledge. I hereby represent and warrant that the Tax ID and Vendor Tax Status provided below are true and accurate. I agree that any confidential information concerning my customer, including but not limited to Duke Energy service account information, will be used for the sole purpose of facilitating the customer's participation in the Mercantile Self Direct Incentive Program. Further, I understand that I am responsible for making sure everyone working for me understands the requirements prior to soliciting customer participation.

| | |
|------------------------------|--|
| Vendor Federal Tax ID Number | |
|------------------------------|--|

To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a third-party vendor. The third-party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the third-party vendor have signed confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, As you will not be qualified to participate in the incentive program.

| | | | | |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|
| Vendor Tax Status | <input type="checkbox"/> Corporation | <input type="checkbox"/> Individual/Sole Proprietor | <input type="checkbox"/> Partnership | <input type="checkbox"/> Other |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|

| | | | | |
|----------------|--------------------------------|---------------------------------|-------------------------------|--|
| Contact me via | <input type="checkbox"/> Phone | <input type="checkbox"/> E-Mail | <input type="checkbox"/> Mail | |
|----------------|--------------------------------|---------------------------------|-------------------------------|--|

| | |
|--------------------------|--|
| Company Name | |
| Mailing Address | |
| City, State, Zip | |
| Phone/Fax | |
| Primary E-mail Address | |
| Secondary E-mail Address | |
| Vendor Signature | |
| Title | |
| Print Name | |
| Date | |

For more information, call 1-866-380-9580 or visit www.duke-energy.com.

CHILLERS

| TAG | DESCRIPTION | E.W.T. | L.W.T. | GPM | FOULING FACTOR | MAX EVAP PD (FT. HD.) | TONS | FLV EER | NPLV EER | ELECTRICAL DATA | | | | MFR. ** | MODEL | REQD ACCESS. |
|------|--------------------|--------|--------|-----|----------------|-----------------------|------|---------|----------|-----------------|-------|-----|------|---------|--------------|--------------|
| | | | | | | | | | | VOLTS | PHASE | MCA | MCCP | | | |
| CH-1 | AIR COOLED CHILLER | 56 | 44 | 375 | 0.0001 | 8 | 221 | 14.7 | 14.9 | 460 | 3 | 392 | 700 | YORK | YCAV0227PA46 | ALL |

REQD ACCESS:

1. FACTORY MOUNTED & WIRED NON-FUSED DISCONNECT
2. CONDENSER LOUVER PANEL
3. SINGLE POINT POWER CONNECTION
4. WATER FLOW SWITCH
5. MINIMUM LOAD CONTROL TO 10%, SEE SPEC.
6. R134a REFRIGERANT
7. SCREW TYPE COMPRESSOR
8. RATED BASED ON 90° F AMBIENT TEMPERATURE.

** - REFER TO SPECIFICATIONS FOR LIST OF APPROVED MANUFACTURERS

GAS FIRED BOILERS

| TAG | DESCRIPTION | E.W.T. | L.W.T. | GPM | MAX P.D. FT. | MBH | | BURNER & CONTROLS | | | OPER. GAS PRESS. IN. WC. | MFR. ** | MODEL | REQD ACCESS. |
|-----|----------------------------|--------|--------|-----|--------------|-------|--------|-------------------|-------|-------|--------------------------|------------------|-----------|--------------|
| | | | | | | INPUT | OUTPUT | AMP | VOLTS | PHASE | | | | |
| B-1 | COUPLE TUBE FORCED DRAFT | 150 | 150 | 120 | 10 | 2,000 | 1,760 | 3 | 460 | 3 | 7-14" | THERMAL SOLUTION | EYHM-2000 | ALL |
| B-2 | FLEXIBLE TUBE FORCED DRAFT | 150 | 150 | 120 | 10 | 2,000 | 1,760 | 3 | 460 | 3 | 7-14" | THERMAL SOLUTION | EYHM-2000 | ALL |

| Unit Tag | Qty | Model No. | Capacity (Tons) | Volts/Ph/Hz | Refrigerant |
|---|-----|--------------|-----------------|-------------|-------------|
| CH-1 | 1 | YCAV0227PA46 | 221.0 | 460/3/60 | R134a |
| Pin No: YCAV0227PA46VACBXTXXXXLXXXX44SXXXXHXXXSAXXXX5LXXLXNJ1XXXX | | | | | |

| Evaporator Data | | Evaporator Data (Cont.) | | Performance Data | |
|------------------------|---------|---------------------------|-------|-----------------------|---------|
| EWT (°F) | 58.0 | GPM Min. Flow Rate | 180.0 | EER | 10.8 |
| LWT (°F) | 44.0 | GPM Max. Flow Rate | 800.0 | NPLV | 14.9 |
| Design Flow Rate (gpm) | 378.4 | | | Minimum Unit Capacity | 10 % |
| Pressure Drop (ft.) | 7.9 | Condenser Data | | Physical Data | |
| Fluid | Water | Ambient Temp. Design (°F) | 90.0 | Rigging Wt. (lbs.) | 15061.2 |
| Fouling Factor | 0.00010 | Altitude (ft.) | 0 | Operating Wt. (lbs.) | 16234.0 |
| Water Volume (gal) | 140.0 | Ambient Temp. Min (°F) | 0.0 | | |

| Electrical Data | | | | |
|--------------------|-------|-------|---|---|
| Circuit | 1 | 2 | 3 | 4 |
| Compressor RLA | 162 | 162 | | |
| Fan QTY/FLA (each) | 5/2.8 | 5/2.8 | | |

| Single Point | | | | |
|------------------------------------|----------------|--|--|--|
| Min. Circuit Ampacity | 392 | | | |
| Recommended Fuse/CB Rating | 450 | | | |
| Max. Inverse Time CB Rating | 800 | | | |
| Max. Dual Element Fuse Size (Amps) | 700 | | | |
| Unit Short Circuit Withstand (STD) | 65KA | | | |
| Wire Lugs Per Phase* | 2 | | | |
| Wire Range (Lug Size) | #2/0 - 500 KCM | | | |
| Unit Power Factor | 0.95 | | | |

| | | | | | |
|---------------|-------|--------------|------|--------------|-------|
| Control KVA | 1.8 | | | Starter Type | VSD |
| Compressor kW | 228.4 | Total Fan kW | 16.8 | Total kW | 245.2 |

Notes: CONGRATULATIONS! Choosing the OPTIMIZED IPLV model will save approximately \$5809 / YEAR in energy costs versus the industry average IPLV efficiency. Calculation based on; a) national average weather data, b) national average building load profile, c) average building annual run hours (5000 hrs.), and d) the local typical commercial energy cost (\$0.0813/kwh). For a more detailed analysis based on your project please contact your YORK representative.

RATED IN ACCORDANCE WITH ARI STANDARD 550/590.

* Use Copper Conductors only

| Part Load Rating Data | | | | |
|-----------------------|--------------|-----------------|---------------|-----------------|
| Load % | Ambient (°F) | Capacity (Tons) | Compressor kW | Unit Efficiency |
| 100.0 | 90.0 | 221.0 | 228.4 | 10.8 |
| 75.0 | 80.0 | 165.7 | 133.8 | 13.2 |
| 50.0 | 65.0 | 110.5 | 64.6 | 16.3 |
| 25.0 | 55.0 | 55.2 | 37.4 | 16.3 |

| | | | |
|---------------------------------------|------------------------------|----------------|--|
| Project Name: CPS - Pleasant Ridge ES | Sold To: | | |
| Location: | Customer Purchase Order No.: | | |
| Engineer: | York Contract No.: | | |
| Contractor: | Date: | Revision Date: | |

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 |
|----------------|--------------|----------------|--------------|
| 9110-3676-01 | | | |
| | | | |
| | | | |
| | | | |

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 type="checkbox"/> All sections of appropriate application(s) are completed | <input type="checkbox"/> Proof of payment.* | <input type="checkbox"/> Manufacturer's Spec sheets | <input type="checkbox"/> Energy model/calculations and detailed inputs for Custom applications |
|---|---|---|--|

* 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 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 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 type="checkbox"/> MSD Custom General Worksheet <input 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 checked="" 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 Ohio Premium Motor/Pump/VFD Incentive Application

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.

Is this application: **NEW** (original) or **REVISED** (changes made to original application)

| Building Type – Required (check one) | | |
|---|--|---|
| <input type="checkbox"/> Data Centers | <input type="checkbox"/> Full Service Restaurant | <input type="checkbox"/> Office |
| <input checked="" type="checkbox"/> Education/K-12 | <input type="checkbox"/> Healthcare | <input type="checkbox"/> Public Assembly |
| <input type="checkbox"/> Education Other | <input type="checkbox"/> Industrial | <input type="checkbox"/> Public Order/Safety |
| <input type="checkbox"/> Elder Care/Nursing Home | <input type="checkbox"/> Lodging | <input type="checkbox"/> Religious Worship/Church |
| <input type="checkbox"/> Food Sales/Grocery | <input type="checkbox"/> Retail (Small Box) | <input type="checkbox"/> Service |
| <input type="checkbox"/> Fast Food Restaurant | <input type="checkbox"/> Retail (Big Box) | <input type="checkbox"/> Warehouse |
| <input type="checkbox"/> Other: | | |
| How did you hear about the program? (check one) | | |
| <input type="checkbox"/> Duke Energy Representative | <input type="checkbox"/> Web Site | <input type="checkbox"/> Radio |
| <input checked="" type="checkbox"/> Contractor / Vendor | <input type="checkbox"/> Other _____ | |

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

| | | | |
|--|---|--|--|
| <input type="checkbox"/> All sections of application | <input type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer | <input type="checkbox"/> Tax ID number for payee | <input type="checkbox"/> Customer/vendor agree to Terms and Conditions |
|--|---|--|--|

| Customer Information | | | | | |
|---|---------------------------|------------------|--------------|----------|-------|
| Customer/Business | Cincinnati Public Schools | Contact | Don Elbe | | |
| Phone | 614-580-3352 | Account Number | 9110-3676-01 | | |
| Street Address (Where incentive should be mailed) | | 2651 Burnett Ave | | | |
| City | Cincinnati | State | OH | Zip Code | 45219 |
| Installation Street Address | 5945 Montgomery Rd | | | | |
| City | Cincinnati | State | OH | Zip Code | 45213 |
| E-mail Address | | | | | |

*Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.

| Vendor Information | | | | | |
|--------------------|--------------|-----------------------------|----------------|----------|-------|
| Vendor | Plug Smart | Contact | Lucas Dixon | | |
| Phone | 614-580-3352 | Fax | 1-800-518-5576 | | |
| Street Address | | 1275 Kinnear Road Suite 229 | | | |
| City | Columbus | State | OH | Zip Code | 43212 |
| E-mail Address | | | | | |

If Duke Energy has questions about this application, who should we contact? Customer Vendor

| Payment Information | | |
|---|--|--|
| Who should receive incentive payment? | <input checked="" type="checkbox"/> Customer | <input type="checkbox"/> Vendor (Customer must sign below) |
| I hereby authorize payment of incentive directly to the vendor: | Customer Signature (written signature) | |
| | Date | |
| Provide Tax ID Number for Payee | Customer Tax ID # | 31-6000758 |
| | Vendor Tax ID # | 26-2368277 |

| Terms and Conditions | | | |
|--|--------------------|------------------|--------------------|
| I have read and hereby agree to the Terms & Conditions and Program Requirements. | | | |
| Customer Signature | <i>Don Elbe</i> | Vendor Signature | <i>[Signature]</i> |
| Date | 11-23-11 | Date | 11/23/2011 |
| Title | Utility Mgmt Coord | Title | Project Manager |

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

Motor incentives will be removed from the Prescriptive Program effective March 31, 2011. To qualify for the current incentives, motors must be purchased by March 31, 2011 and installed by June 30, 2011. Applications must be received by September 30, 2011.

Certain motors will still be eligible for incentives using the custom program. Please refer to the Duke Energy Mercantile Self Direct website for further detail.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

| Motor | | | | | | | | | | | |
|--------------|-------------------------|----------|---|--|-----------|-------|-------------------------------|--|----------------|-------------------------------------|-----------------|
| Motor | Make/Model or Catalog # | Quantity | Type | RPM | Incentive | HP | Installed Nominal Efficiency* | Annual Operating Hrs (Minimum of 2000) | Equipment Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1-5 HP | Baldor EM3218T | 2 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$5/HP | 5HP | 89.5% | 2800Hrs | | 8/19/2008 | \$50.00 |
| 7.5-20 HP | Baldor EM3311T | 1 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$4/HP | 7.5HP | 91% | 2800Hrs | | 8/19/2008 | \$30.00 |
| 25-100 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2.50/HP | HP | % | Hrs | | | |
| 125 – 250 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2/HP | HP | % | Hrs | | | |

*** See page four for required efficiency levels for motors.**

*Incentive capped at 50% of project cost (equipment and external labor).

- Qualifying motors must be three-phase open drip (ODP) or totally enclosed fan cooled (TEFC) units with nominal speeds of 1200, 1800, or 3600 RPM.
- Efficiencies are to be full-load nominal efficiencies tested in accordance with IEE Standards 112, Method B. Please refer to attached table to determine qualifying efficiencies.
- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor shall be squirrel cage design and conform to NEMA Premium design A, B or C torque characteristics.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Replaced motors shall be disposed of or recycled (not to be resold or rewound).
- Motor(s) and pump(s) must operate a minimum of 2000 hours annually to be eligible.

Motor incentives will be removed from the Prescriptive Program effective March 31, 2011. To qualify for the current incentives, motors must be purchased by March 31, 2011 and installed by June 30, 2011. Applications must be received by September 30, 2011.

Certain motors will still be eligible for incentives using the custom program. Please refer to the Duke Energy Mercantile Self Direct website for further detail.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

| Motor | | | | | | | | | | | |
|--------------|-------------------------|----------|---|--|-----------|------|-------------------------------|--|----------------|-------------------------------------|-----------------|
| Motor | Make/Model or Catalog # | Quantity | Type | RPM | Incentive | HP | Installed Nominal Efficiency* | Annual Operating Hrs (Minimum of 2000) | Equipment Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1-5 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$5/HP | HP | % | Hrs | | | |
| 7.5-20 HP | Baldor EM2513T | 1 | <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$4/HP | 15HP | 93% | 2800Hrs | | 8/19/2008 | \$60.00 |
| 25-100 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2.50/HP | HP | % | Hrs | | | |
| 125 – 250 HP | | | <input type="checkbox"/> OPEN <input type="checkbox"/> TEFC | <input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600 | \$2/HP | HP | % | Hrs | | | |

*** See page four for required efficiency levels for motors.**

*Incentive capped at 50% of project cost (equipment and external labor).

- Qualifying motors must be three-phase open drip (ODP) or totally enclosed fan cooled (TEFC) units with nominal speeds of 1200, 1800, or 3600 RPM.
- Efficiencies are to be full-load nominal efficiencies tested in accordance with IEE Standards 112, Method B. Please refer to attached table to determine qualifying efficiencies.
- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor shall be squirrel cage design and conform to NEMA Premium design A, B or C torque characteristics.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Replaced motors shall be disposed of or recycled (not to be resold or rewound).
- Motor(s) and pump(s) must operate a minimum of 2000 hours annually to be eligible.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

| High Efficiency Pumps | | | | | | | | |
|-----------------------|-------------------------|----------|---------------|--|--|----------------|-------------------------------------|-----------------|
| Pump | Make/Model or Catalog # | Quantity | Incentive | Installed Nominal Efficiency* (pump curve) | Annual Operating Hrs (Minimum of 2000) | Equipment Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1.5 HP | | | \$61.00/PUMP | % | Hrs | | | |
| 2 HP | | | \$87.50/PUMP | % | Hrs | | | |
| 3 HP | | | \$87.50/PUMP | % | Hrs | | | |
| 5 HP | | | \$85.00/PUMP | % | Hrs | | | |
| 7.5 HP | | | \$124.50/PUMP | % | Hrs | | | |
| 10 HP | | | \$82.50/PUMP | % | Hrs | | | |
| 15 HP | | | \$145.00/PUMP | % | Hrs | | | |
| 20 HP | | | \$200.00/PUMP | % | Hrs | | | |

*** See on page four for required efficiency levels for pumps. Pump curves are required.**

*Incentive capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Pump efficiency is based on the design point on the pump curve. Documentation of the pump curve is required to receive an incentive.
- The pump efficiency at the design point on the pump curve must meet nominal efficiencies as stated in table on page 4.
- Duplicative to the first bullet point.

The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

| Variable Frequency Drives (VFDs) – For Process Fluid Pumping Only (Retrofit* Application only) | | | | | | | |
|---|-------------------------|----------|--------------|---|--------------|--|-----------------|
| Process pumping <u>does not</u> include HVAC or swimming pool fluid pumping systems. | | | | | | | |
| List Process Pumping Application | | | | | | | |
| VFD** | Make/Model or Catalog # | Quantity | Incentive*** | Annual Operating Hrs (Minimum of 2000) | Project Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 5 HP | | | \$20.00/HP | Hrs | | | |
| 7.5 HP | | | \$20.00/HP | Hrs | | | |
| 10 HP | | | \$20.00/HP | Hrs | | | |
| 15 HP | | | \$20.00/HP | Hrs | | | |
| 20 HP | | | \$20.00/HP | Hrs | | | |
| 25 HP | | | \$20.00/HP | Hrs | | | |
| 30 HP | | | \$20.00/HP | Hrs | | | |
| 40 HP | | | \$20.00/HP | Hrs | | | |
| 50 HP | | | \$20.00/HP | Hrs | | | |
| <p>*Retrofit only – incentives are only available for new VFDs installed on existing fluid process pump systems. ** VFDs over 50 HP and VFDs on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program. Please refer to the custom webpage for guidance. ***Incentives are capped at 50% of project cost (equipment and external labor).</p> | | | | | | | |

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- . Duplicative to the first bullet point.

The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

Variable Frequency Drives (VFDs) – Applied to HVAC Fans Only (Retrofit* Application only)

VFD HVAC Applications (please check one):
 Supply Fan Cooling Tower Fan Return Fan
 Exhaust Fan

| VFD** | Make/Model or Catalog # | Quantity | Incentive*** | Annual Operating Hrs (Minimum of 2000) | Project Cost | Date Installed and Operable (mm/yy) | Total Incentive |
|--------|-------------------------|----------|--------------|--|--------------|-------------------------------------|-----------------|
| 1.5 HP | | | \$50.00/HP | Hrs | | | |
| 2 HP | | | \$50.00/HP | Hrs | | | |
| 3 HP | | | \$50.00/HP | Hrs | | | |
| 5 HP | | | \$50.00/HP | Hrs | | | |
| 7.5 HP | | | \$50.00/HP | Hrs | | | |
| 10 HP | | | \$50.00/HP | Hrs | | | |
| 15 HP | | | \$50.00/HP | Hrs | | | |
| 20 HP | | | \$50.00/HP | Hrs | | | |
| 25 HP | | | \$50.00/HP | Hrs | | | |
| 30 HP | | | \$50.00/HP | Hrs | | | |
| 40 HP | | | \$50.00/HP | Hrs | | | |
| 50 HP | | | \$50.00/HP | Hrs | | | |

* Retrofit only – incentives are only available for new VFDs installed on existing HVAC fan systems.
 **VFDs over 50 HP and VFD's on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program.
 ***Incentives are capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- Duplicative to the first bullet point.

The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

| Variable Frequency Drives (VFDs) – Applied to HVAC Pumps Only (Retrofit* Application only) | | | | | | | |
|--|-------------------------|---|--------------|---|---|--|-----------------|
| VFD HVAC Applications (please check one): | | | | | | | |
| <input type="checkbox"/> Chilled Water Pump | | <input type="checkbox"/> Condenser Pump | | | <input type="checkbox"/> Hot Water Pump | | |
| VFD** | Make/Model or Catalog # | Quantity | Incentive*** | Annual Operating Hrs (Minimum of 2000) | Project Cost | Date Installed and Operable (mm/yy) | Total Incentive |
| 1.5 HP | | | \$50.00/HP | Hrs | | | |
| 2 HP | | | \$50.00/HP | Hrs | | | |
| 3 HP | | | \$50.00/HP | Hrs | | | |
| 5 HP | | | \$50.00/HP | Hrs | | | |
| 7.5 HP | | | \$50.00/HP | Hrs | | | |
| 10 HP | | | \$50.00/HP | Hrs | | | |
| 15 HP | | | \$50.00/HP | Hrs | | | |
| 20 HP | | | \$50.00/HP | Hrs | | | |
| 25 HP | | | \$50.00/HP | Hrs | | | |
| 30 HP | | | \$50.00/HP | Hrs | | | |
| 40 HP | | | \$50.00/HP | Hrs | | | |
| 50 HP | | | \$50.00/HP | Hrs | | | |
| <p>* Retrofit only – incentives are only available for new VFDs installed on existing HVAC pumps systems. **VFDs over 50 HP and VFDs on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program. Please refer to the custom webpage for guidance. ***Incentives are capped at 50% of project cost (equipment and external labor).</p> | | | | | | | |

- Installed equipment must be new. Used, rebuilt or rewound equipment is **not** eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- . Duplicative to the first bullet point.

Efficiencies for Premium Motor/Pump Measures

| Nominal Efficiencies for "NEMA Premium" Induction Motors Rated 600 volts or less (random wound) | | | | | | |
|---|-----------------|----------|----------|-----------------------------|----------|----------|
| HP | Open Drip Proof | | | Totally Enclosed Fan-Cooled | | |
| | 1200 RPM | 1800 RPM | 3600 RPM | 1200 RPM | 1800 RPM | 3600 RPM |
| 1 | 82.5 | 85.5 | 77.0 | 82.5 | 85.5 | 77.0 |
| 1.5 | 86.5 | 86.5 | 84.0 | 87.5 | 86.5 | 84.0 |
| 2 | 87.5 | 86.5 | 85.5 | 88.5 | 86.5 | 85.5 |
| 3 | 88.5 | 89.5 | 85.5 | 89.5 | 89.5 | 86.5 |
| 5 | 89.5 | 89.5 | 86.5 | 89.5 | 89.5 | 88.5 |
| 7.5 | 90.2 | 91.0 | 88.5 | 91.0 | 91.7 | 89.5 |
| 10 | 91.7 | 91.7 | 89.5 | 91.0 | 91.7 | 90.2 |
| 15 | 91.7 | 93.0 | 90.2 | 91.7 | 92.4 | 91.0 |
| 20 | 92.4 | 93.0 | 91.0 | 91.7 | 93.0 | 91.0 |
| 25 | 93.0 | 93.6 | 91.7 | 93.0 | 93.6 | 91.7 |
| 30 | 93.6 | 94.1 | 91.7 | 93.0 | 93.6 | 91.7 |
| 40 | 94.1 | 94.1 | 92.4 | 94.1 | 94.1 | 92.4 |
| 50 | 94.1 | 94.5 | 93.0 | 94.1 | 94.5 | 93.0 |
| 60 | 94.5 | 95.0 | 93.6 | 94.5 | 95.0 | 93.6 |
| 75 | 94.5 | 95.0 | 93.6 | 94.5 | 95.4 | 93.6 |
| 100 | 95.0 | 95.4 | 93.6 | 95.0 | 95.4 | 94.1 |
| 125 | 95.0 | 95.4 | 94.1 | 95.0 | 95.4 | 95.0 |
| 150 | 95.4 | 95.8 | 94.1 | 95.8 | 95.8 | 95.0 |
| 200 | 95.4 | 95.8 | 95.0 | 95.8 | 96.2 | 95.4 |
| 250 | 95.4 | 95.8 | 95.0 | 95.8 | 96.2 | 95.8 |

| Nominal Efficiencies for Pumps | |
|--------------------------------|--------------------------------------|
| HP | Efficiency |
| 1.5 | efficiency of 65% or more for system |
| 2 | efficiency of 65% or more for system |
| 3 | efficiency of 67% or more for system |
| 5 | efficiency of 70% or more for system |
| 7.5 | efficiency of 73% or more for system |
| 10 | efficiency of 75% or more for system |
| 15 | efficiency of 77% or more for system |
| 20 | efficiency of 77% or more for system |

Program Requirements

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and its affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties and 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.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application. (Page7)
3. Purchase and install eligible energy-efficient equipment.
4. Complete and submit application for equipment that was installed after 1/1/2008.
5. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
6. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
8. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
8. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

Mercantile Self Direct Incentive Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.

Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to **513-419-5572**.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call **1-866.380.9580** or visit www.duke-energy.com.



Mercantile Self Direct Rebate Program

| Technology | Responsible for sales and not installs* | Responsible for sales and Installation* | Technology | Responsible for sales and not installs* | Responsible for sales and Installation* |
|--|--|--|-------------------|--|--|
| Lighting | <input type="checkbox"/> | <input type="checkbox"/> | Thermal Storage | <input type="checkbox"/> | <input type="checkbox"/> |
| Heating Ventilation & Cooling | <input type="checkbox"/> | <input type="checkbox"/> | Pumps/Motors/VFDs | <input type="checkbox"/> | <input type="checkbox"/> |
| Food Service | <input type="checkbox"/> | <input type="checkbox"/> | Chillers | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Heating | <input type="checkbox"/> | <input type="checkbox"/> | Refrigeration | <input type="checkbox"/> | <input type="checkbox"/> |
| Process Equipment (air compressors, injection molding, etc.) | <input type="checkbox"/> | <input type="checkbox"/> | Window Film | <input type="checkbox"/> | <input type="checkbox"/> |

* Check all that apply

Vendors who wish to be listed as a Mercantile Self Direct Incentive Program participating Vendor shall complete this form. A signed copy of this form must be on file at Duke Energy in order for the Vendor to receive incentive payments. Fax form to **513-419-5572** or email to SelfDirect@duke-energy.com.

I have read and understand the Mercantile Self Direct Incentive Program Requirements for Vendor Participation, and I agree to comply with all requirements set forth therein. By signing this agreement, I agree to provide my customers with information and documentation that is true and accurate to the best of my knowledge. I hereby represent and warrant that the Tax ID and Vendor Tax Status provided below are true and accurate. I agree that any confidential information concerning my customer, including but not limited to Duke Energy service account information, will be used for the sole purpose of facilitating the customer's participation in the Mercantile Self Direct Incentive Program. Further, I understand that I am responsible for making sure everyone working for me understands the requirements prior to soliciting customer participation.

| | |
|------------------------------|--|
| Vendor Federal Tax ID Number | |
|------------------------------|--|

To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a third-party vendor. The third-party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the third-party vendor have signed confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, As you will not be qualified to participate in the incentive program.

| | | | | |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|
| Vendor Tax Status | <input type="checkbox"/> Corporation | <input type="checkbox"/> Individual/Sole Proprietor | <input type="checkbox"/> Partnership | <input type="checkbox"/> Other |
|-------------------|--------------------------------------|---|--------------------------------------|--------------------------------|

| | | | | |
|----------------|--------------------------------|---------------------------------|-------------------------------|--|
| Contact me via | <input type="checkbox"/> Phone | <input type="checkbox"/> E-Mail | <input type="checkbox"/> Mail | |
|----------------|--------------------------------|---------------------------------|-------------------------------|--|

| | |
|--------------------------|--|
| Company Name | |
| Mailing Address | |
| City, State, Zip | |
| Phone/Fax | |
| Primary E-mail Address | |
| Secondary E-mail Address | |
| Vendor Signature | |
| Title | |
| Print Name | |
| Date | |

For more information, call 1-866-380-9580 or visit www.duke-energy.com.

HVAC PACKAGED SYSTEM DATA SHEET

JOB NAME Pleasant Ridge Elementary School **DATE** 4/6/07
LOCATION Cincinnati, Ohio
ENGINEER Dynamix Engineering, Ltd
CONTRACTOR _____
DISTRIBUTOR Weber-Huff, Inc.

SYSTEM INFORMATION APPLICATION Primary/Secondary CHW
SYSTEM OPERATION VARIABLE SPEED CONSTANT SPEED
SYSTEM MODEL NO. D-378-40/80-VI-1V
SYSTEM DESIGN CAPACITY 378 GPM
SYSTEM DESIGN HEAD 40/80 TDH
SUCTION PRESSURE Advise PSIG

SYSTEM POWER 460 VOLTS 3 PHASE 60 HERTZ

| PUMP INFORMATION | PUMP NO 1 | PUMP NO 2 | PUMP NO 3 |
|--------------------------------|---------------------------|---------------------------|-----------------|
| PUMP DESIGNATION | <u>CWP-1</u> | <u>CWP-2</u> | <u>NOT USED</u> |
| PUMP MANUFACTURER | <u>Taco</u> | <u>Taco</u> | |
| PUMP TYPE | <u>Vertical Inline SC</u> | <u>Vertical Inline SC</u> | |
| PUMP SIZE | <u>KS4007</u> | <u>KS4011</u> | |
| PUMP EFFICIENCY @ DESIGN | <u>80%</u> | <u>72%</u> | |
| VARIABLE / CONSTANT SPEED | <u>CS</u> | <u>VS / CS</u> | |
| MOTOR HP / FLA | <u>7 1/2 HP</u> | <u>15 HP</u> | |
| MOTOR EFFICIENCY @ FULL LOAD | <u>91.7%</u> | <u>93.0%</u> | |
| MOTOR ENCLOSURE | <u>ODP</u> | <u>ODP</u> | |
| DESIGN RPM | <u>1750</u> | <u>1750</u> | |
| DESIGN GPM | <u>378</u> | <u>378</u> | |
| DESIGN HEAD | <u>40</u> | <u>80</u> | |
| MULTI PURPOSE/CHECK VALVE SIZE | <u>6" MPV</u> | <u>6" CV</u> | |
| PUMP SHUTOFF PSIG | <u>22</u> | <u>41</u> | |
| WORKING PRESS PSIG | | | |

WORKING PRESSURE IS THE TOTAL OF THE SUCTION PRESSURE PLUS PUMP SHUT OFF HEAD AT MAX. SPEED AND MUST NOT EXCEED THE ALLOWABLE WORKING PRESSURE OF THE COMPONENTS.

THIRD PARTY CERTIFICATIONS

- UL LISTED SYSTEM UNDER PACKAGED PUMPING SYSTEMS CATEGORY QCZJ
- UL LISTED CONTROLS UNDER UL 508A
- _____

FACTORY TESTING

- HYDROSTATIC TEST TO 150 PSIG OR 50 PSIG OVER MAXIMUM SYSTEM PRESSURE (WHICHEVER IS GREATER) FOR 2 HRS.
- SYSTEM FLOW TEST
- SYSTEM FLOW AND EFFICIENCY TEST
- WITNESS TEST
- CERTIFIED FACTORY TEST
- _____

SYSTEM NOTES & COMMENTS

Mounted on a common base with HWP-1 and B-1,2.

| |
|--|
| HVAC PACKAGED SYSTEM DATA SHEET |
|--|

JOB NAME Pleasant Ridge Elementary School **DATE** 4/06/07

LOCATION Cincinnati, Ohio

ENGINEER Dynamix Engineering, Ltd

CONTRACTOR _____

DISTRIBUTOR Weber-Huff, Inc.

SYSTEM INFORMATION APPLICATION Primary Hot Water

SYSTEM OPERATION VARIABLE SPEED CONSTANT SPEED

SYSTEM MODEL NO. D-120-60-VI

SYSTEM DESIGN CAPACITY 120 GPM

SYSTEM DESIGN HEAD 60 TDH

SUCTION PRESSURE Advise PSIG

SYSTEM POWER 460 VOLTS 3 PHASE 60 HERTZ

| PUMP INFORMATION | PUMP NO 1 | PUMP NO 2 | PUMP NO 3 |
|--------------------------------|--------------------|----------------|-----------|
| PUMP DESIGNATION | HWP-1 | HWP-2 | NOT USED |
| PUMP MANUFACTURER | Taco | Equal to HWP-1 | _____ |
| PUMP TYPE | Vertical Inline SC | _____ | _____ |
| PUMP SIZE | KS 3009 | _____ | _____ |
| PUMP EFFICIENCY @ DESIGN | 63 % | _____ | _____ |
| VARIABLE / CONSTANT SPEED | CS | _____ | _____ |
| MOTOR HP / FLA | 5 HP | _____ | _____ |
| MOTOR EFFICIENCY @ FULL LOAD | 90.2% | _____ | _____ |
| MOTOR ENCLOSURE | ODP | _____ | _____ |
| DESIGN RPM | 1750 | _____ | _____ |
| DESIGN GPM | 120 | _____ | _____ |
| DESIGN HEAD | 60 | _____ | _____ |
| MULTI PURPOSE/CHECK VALVE SIZE | 3" MPV | _____ | _____ |
| PUMP SHUTOFF PSIG | 28 | _____ | _____ |
| WORKING PRESS PSIG | _____ | _____ | _____ |



Product Quick Search
EM3218T



WHERE TO BUY | CONTACT US | SITE MAP

- HOME
- PRODUCTS
- SUPPORT
- NEWS/EVENTS
- ABOUT BALDOR

General Information

- Overview
- Specifications
- Performance Data
- Parts List
- Drawings
- More Information
- Where To Buy
- Baldor Sales Offices

Return to List

[AC Motors](#) | [Premium Efficient](#) | [5 HP](#) | [1400-1800 RPM](#) |

Specifications: EM3218T

| | |
|------------------------|--------------|
| SPEC. NUMBER: | 36G548S270G1 |
| CATALOG NUMBER: | EM3218T |
| FL AMPS: | 14-13.2/6.6 |
| 208V AMPS: | 14 |
| BEARING-DRIVE-END: | 6206 |
| BEARING-OPP-DRIVE-END: | 6205 |
| DESIGN CODE: | B |
| DOE-CODE: | 010A |
| FL EFFICIENCY: | 89.5 |
| ENCLOSURE: | OPSB |
| FRAME: | 184T |
| HERTZ: | 60 |
| INSULATION-CLASS: | F |
| KVA-CODE: | J |
| SPEED [rpm]: | 1750 |
| OUTPUT [hp]: | 5 |
| PHASE: | 3 |
| POWER-FACTOR: | 80 |
| RATING: | 40C AMB-CONT |
| SERIAL-NUMBER: | -- |
| SERVICE FACTOR: | 1.15 |
| VOLTAGE: | 208-230/460 |

* For certified information, contact your local [Baldor office](#).

[Home](#) | [Products](#) | [Support](#) | [News/Events](#) | [About Baldor](#) | [RSS](#)  | [YouTube](#) 

Copyright © 2001-2011 Baldor Electric Company. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)



Product Quick Search
 EM3311T Go

[WHERE TO BUY](#) | [CONTACT US](#) | [SITE MAP](#)

HOME
PRODUCTS
SUPPORT
NEWS/EVENTS
ABOUT BALDOR

General Information

- [Overview](#)
- [Specifications](#)
- [Performance Data](#)
- [Parts List](#)
- [Drawings](#)

More Information

- [Where To Buy](#)
- [Baldor Sales Offices](#)

◀ [Return to List](#)

[AC Motors](#) | [Premium Efficient](#) | [7.5 HP](#) | [1400-1800 RPM](#) |

Specifications: EM3311T

| | |
|------------------------|---------------|
| SPEC. NUMBER: | 37F614S520G1 |
| CATALOG NUMBER: | EM3311T |
| FL AMPS: | 20.4-19.4/9.7 |
| 208V AMPS: | -- |
| BEARING-DRIVE-END: | 6307 |
| BEARING-OPP-DRIVE-END: | 6206 |
| DESIGN CODE: | A |
| DOE-CODE: | 010A |
| FL EFFICIENCY: | 91 |
| ENCLOSURE: | OPSB |
| FRAME: | 213T |
| HERTZ: | 60 |
| INSULATION-CLASS: | F |
| KVA-CODE: | J |
| SPEED [rpm]: | 1770 |
| OUTPUT [hp]: | 7.5 |
| PHASE: | 3 |
| POWER-FACTOR: | 79 |
| RATING: | 40C AMB-CONT |
| SERIAL-NUMBER: | -- |
| SERVICE FACTOR: | 1.15 |
| VOLTAGE: | 208-230/460 |

* For certified information, contact your local [Baldor office](#).

[Home](#) | [Products](#) | [Support](#) | [News/Events](#) | [About Baldor](#) | [RSS](#)  | [YouTube](#) 

Copyright © 2001-2011 Baldor Electric Company. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)



Product Quick Search
 EM2513T 

[WHERE TO BUY](#) | [CONTACT US](#) | [SITE MAP](#)

HOME
PRODUCTS
SUPPORT
NEWS/EVENTS
ABOUT BALDOR

General Information

- [Overview](#)
- [Specifications](#)
- [Performance Data](#)
- [Parts List](#)
- [Drawings](#)

More Information

- [Where To Buy](#)
- [Baldor Sales Offices](#)

◀ [Return to List](#)

[AC Motors](#) | [Premium Efficient](#) | [15 HP](#) | [1400-1800 RPM](#) |

Specifications: EM2513T

| | |
|------------------------|--------------|
| SPEC. NUMBER: | 39K057W916 |
| CATALOG NUMBER: | EM2513T |
| FL AMPS: | 35.4/17.7 |
| 208V AMPS: | 37.4 |
| BEARING-DRIVE-END: | 6309 |
| BEARING-OPP-DRIVE-END: | 6208 |
| DESIGN CODE: | B |
| DOE-CODE: | 010A |
| FL EFFICIENCY: | 93 |
| ENCLOSURE: | OPSB |
| FRAME: | 254T |
| HERTZ: | 60 |
| INSULATION-CLASS: | F |
| KVA-CODE: | G |
| SPEED [rpm]: | 1765 |
| OUTPUT [hp]: | 15 |
| PHASE: | 3 |
| POWER-FACTOR: | 86 |
| RATING: | 40C AMB-CONT |
| SERIAL-NUMBER: | -- |
| SERVICE FACTOR: | 1.15 |
| VOLTAGE: | 230/460 |

* For certified information, contact your local [Baldor office](#).

[Home](#) | [Products](#) | [Support](#) | [News/Events](#) | [About Baldor](#) | [RSS](#)  | [YouTube](#) 

Copyright © 2001-2011 Baldor Electric Company. All rights reserved. | [Terms of Use](#) | [Privacy Policy](#)

March 2, 2012



To whom it may concern:

This letter is to confirm that for the renovation to Cincinnati Public school Pleasant Ridge (5945 Montgomery Rd), for the custom rebate application, the lighting and HRW project were installed with a minimum unit cost listed below.

| DESCRIPTION | QUANTITY | PRICE/FIXTURE | AMOUNT |
|---|----------|---------------|--------------|
| R1 - Lithonia VGR1 2/26DTT | 707 | \$178.00 | \$125,846.00 |
| C1 - Lithonia AF10 232 | 36 | \$178.00 | \$6,408.00 |
| F1 - Lithonia AF 2/26DTT | 63 | \$164.00 | \$10,332.00 |
| F4 - Lithonia AF 2/26DTT | 3 | \$164.00 | \$492.00 |
| R2 - Lithonia 2RT5-14T5 | 27 | \$138.00 | \$3,726.00 |
| D2 - Peerlite 10CRM4 328T5 | 2 | \$639.00 | \$1,278.00 |
| D1 - Peerlite 10CRM4 328T5 | 3 | \$639.00 | \$1,917.00 |
| R3 - Lithonia RT5 28T5 | 12 | \$293.00 | \$3,516.00 |
| D4 - Peerlite 10CRM4 328T5 | 9 | \$639.00 | \$5,751.00 |
| F2 - Lithonia LGF 2/26DTT | 3 | \$35.00 | \$105.00 |
| B4 - Lithonia 2SP8 432 | 18 | \$119.00 | \$2,142.00 |
| B4G - Lithonia 2SP8 432 | 5 | \$119.00 | \$595.00 |
| H1 - Specilight FHB24 632T1 | 30 | \$154.00 | \$4,620.00 |
| H1G - Specilight FHB24 632T1 | 10 | \$154.00 | \$1,540.00 |
| C1G - Lithonia AF10 232 | 2 | \$178.00 | \$356.00 |
| NovelAire ECW 844 Energy Conservation Wheel | 2 | \$8,000.00 | \$16,000.00 |

| | |
|--------------|---------------------|
| TOTAL | \$184,624.00 |
|--------------|---------------------|

This is also to confirm that for the renovation to Pleasant Ridge (5945 Montgomery Rd), for the prescriptive rebate application, occupancy sensors, motors and a chiller were installed with a minimum unit cost listed below.

| DESCRIPTION | Model Number | QUANTITY | Nominal Size (Tons) | PRICE/FIXTURE | AMOUNT |
|----------------------------------|------------------------------|----------|---------------------|---------------|--------------|
| SelfDirect Occupancy Sensor | CM-PDT-10, WSD-2P, WV-PDT-16 | 198 | - | \$117.89 | \$23,342.22 |
| SelfDirect Motor | Baldor EM3218T | 2 | - | \$830.00 | \$1,660.00 |
| SelfDirect Motor | Baldor EM3311T | 1 | - | \$1,220.00 | \$1,220.00 |
| SelfDirect Motor | Baldor EM2513T | 1 | - | \$2,091.00 | \$2,091.00 |
| SelfDirect Chiller - Air - Screw | York YCAV0227PA46 | 1 | 227 | \$272,400.00 | \$272,400.00 |

| | |
|--------------|---------------------|
| TOTAL | \$300,713.22 |
|--------------|---------------------|

Thank you for your attention to this matter,



Don Elbe
Utility Management Coordinator

Turner  **TYS**
Rebuilding Cincinnati Public Schools

April 29, 2009

Angie Tolle
Cincinnati Public Schools
2315 Iowa Avenue
Cincinnati, OH 45206

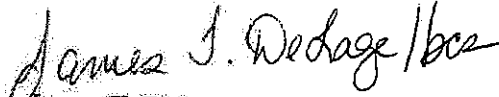
Dear Angie:

Attached are **Pay Applications** for the **Pleasant Ridge School**,
**please process for payment as soon as possible, if the change
order has been processed.**

| Contractor | Application # | Monthly Billing | Total Billing To Date | Contract Amount to Date |
|----------------------|---------------|-----------------|--------------------------|----------------------------|
| BP#7 United Electric | #21 - CO#13 | \$ 17,172.00 | \$1,873,233.61 | \$1,906,055.00 |

Please call if you have any questions.

Sincerely,
TURNER/DAG/TYS


James T. DeLage
Project Executive

/bcs

Attachments

cc: Dan Bascom - SHP
Bill Martin - Turner/DAG/TYS
File 0025 - 10960PA

T:PROJECTS/SEGMENT2/Pleasant Ridge/00250 Pay Application/2009-04-29 United Pay App. Ltr. Doc

2315 Iowa Avenue, Cincinnati, OH 45206, Phone 513-363-0875, Fax 513-363-0880

United Electric Co., Inc.
4333 Robards Lane
Louisville, KY 40218

Phone: 502 459-5242



Invoice 19181

| | |
|--|--|
| Bill to: CPS FACILITIES 2315 IOWA STREET CINCINNATI, OH 45206 | Job: 07-16017 PLEASANT RIDGE ELEM 5945 MONTGOMERY ROAD CINCINNATI, OH 45213 |
|--|--|

| | | |
|-----------------------|----------------|--------------------------------------|
| Invoice #: 19181 | Date: 04/09/09 | Customer P.O. #: PO 518337 BID PKG 7 |
| Payment Terms: NET 30 | | Salesperson: |
| Customer Code: CPSFAC | | |

Remarks: APRIL 2009 PLEASANT RIDGE ELEM -

| Quantity | Description | U/M | Unit Price | Extension |
|------------------|-------------------------------------|-----|------------|------------------|
| | CHANGE ORDER 13 | | | 17,172.00 |
| 5 | ORIGINALS TO BILL MARTIN CPS/TURNER | | | |
| Subtotal: | | | | 17,172.00 |
| Total: | | | | 17,172.00 |

Remit Payment to:
United Electric Co., Inc.
1634 Reliable Parkway
Chicago, IL 60686

APPLICATION AND CERTIFICATE FOR PAYMENT

TO OWNER: Cincinnati Public School District
original

PROJECT: Pleasant Ridge Elementary School
New

APPLICATION No: CHANGE ORDER 013
PERIOD TO: 3/4/2009
PROJECT NOS: PO 51837
CONTRACT DATE:

FROM CONTRACTOR: United Electric Co., Inc.

VIA ARCHITECT: STEED HAMMOND PAUL

****provide Richard Prekatski with material expediting log with each billing

CONTRACT FOR: Bid Package 7 Electrical/Technology

CONTRACTOR'S APPLICATION FOR PAYMENT

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

- 1. ORIGINAL CONTRACT SUM.....\$ 1,781,250.00
- 2. Net Change by Change Orders.....\$ 124,805.00
- 3. CONTRACT SUM TO DATE.....\$ 1,906,055.00
- 4. TOTAL COMPLETED & STORED TO DATE.....\$ 1,873,233.61
- 5. RETAINAGE
4% of completed labor
b. 8% of Stored Material.....\$
- Total Retainage.....\$
- 6. TOTAL EARNED LESS RETAINAGE.....\$ 1,873,233.61
- 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT.....\$ 1,856,061.61
- 8. CURRENT PAYMENT DUE.....\$ 17,172.00
- 9. BALANCE TO FINISH, INCLUDING RETAINAGE.....\$ 32,821.39

| Change Order/Contract | ADDITIONS | DEDUCTIONS |
|--|------------------|-------------|
| Total Changes approved in Previous months by Owner | 78178.00 | 0.00 |
| Total approved this month | 46827.00 | 0.00 |
| TOTALS | 124805.00 | 0.00 |

The Contractor certifies 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.

UNITED ELECTRIC CO., INC. 4/7/2009
Contractor: Harold G. Murray Date
Based upon on-site observations, the firm affirms that the work has progressed to the percentage of completeness indicated on the pay request.

Architect: [Signature] Date: 4/28/09
Construction Manager: [Signature] Date: 4/15/2009

Approved: _____
School District Treasurer _____ Date _____

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE OF PAGES

AIA Document G702 - APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Pleasant Ridge Elementary School

APPLICATION NO. CHANGE ORDER 13
APPLICATION DATE: 4.9.2009
PERIOD TO: 4.9.2009

In Indications below, amounts are stated in the nearest dollar.

BP #7 Electrical/Technology

ARCHITECT'S PROJECT NO.

Use Column I on Contracts where variable retainage for line items may apply.

| A | B | C | D | E | F | G | H | I | |
|----------|----------------------|-----------------|--|-------------|--|--|---------|---------------------------|------------------------------|
| ITEM NO. | DESCRIPTION OF WORK | SCHEDULED VALUE | WORK COMPLETED FROM PREVIOUS APPLICATION (D + E) | THIS PERIOD | MATERIALS PRESENTLY STORED (NOT IN D OR E) | TOTAL COMPLETED AND STORED TO DATE (D+E+G) | % (G+C) | BALANCE TO FINISH (C - G) | RETAINAGE (IF VARIABLE RATE) |
| 1 | PERMIT | \$9,500.00 | \$9,500.00 | \$0.00 | \$0.00 | \$9,500.00 | 100.00% | \$0.00 | \$0.00 |
| 2 | GENERAL CONDITIONS | \$95,000.00 | \$95,000.00 | \$0.00 | \$0.00 | \$95,000.00 | 100.00% | \$0.00 | \$0.00 |
| 3 | TEMPORARY | \$30,000.00 | \$30,000.00 | \$0.00 | \$0.00 | \$30,000.00 | 100.00% | \$0.00 | \$0.00 |
| 4 | MOBILIZATION | \$10,500.00 | \$10,500.00 | \$0.00 | \$0.00 | \$10,500.00 | 100.00% | \$0.00 | \$0.00 |
| 5 | BOND | \$17,812.50 | \$17,812.50 | \$0.00 | \$0.00 | \$17,812.50 | 100.00% | \$0.00 | \$0.00 |
| 6 | PUNCH LIST - Labor | \$9,000.00 | \$9,000.00 | \$0.00 | \$0.00 | \$9,000.00 | 100.00% | \$0.00 | \$0.00 |
| 7 | TESTING | \$4,500.00 | \$4,500.00 | \$0.00 | \$0.00 | \$4,500.00 | 100.00% | \$0.00 | \$0.00 |
| 8 | FINAL CLEANING | \$4,500.00 | \$4,500.00 | \$0.00 | \$0.00 | \$4,500.00 | 100.00% | \$0.00 | \$0.00 |
| 9 | PROJECT CLOSE OUT | \$15,000.00 | \$15,000.00 | \$0.00 | \$0.00 | \$15,000.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 10 LIGHTING CONDUIT | \$15,980.00 | \$15,980.00 | \$0.00 | \$0.00 | \$15,980.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 11 LIGHTING CONDUIT | \$12,526.00 | \$12,526.00 | \$0.00 | \$0.00 | \$12,526.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 12 LIGHTING WIRE | \$10,000.00 | \$10,000.00 | \$0.00 | \$0.00 | \$10,000.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 13 LIGHTING WIRE | \$2,033.00 | \$2,033.00 | \$0.00 | \$0.00 | \$2,033.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 14 LIGHTING FIXTURES | \$21,422.00 | \$21,422.00 | \$0.00 | \$0.00 | \$21,422.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 15 LIGHTING FIXTURES | \$80,365.00 | \$80,365.00 | \$0.00 | \$0.00 | \$80,365.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 16 LIGHTING DEVICES | \$4,104.00 | \$4,104.00 | \$0.00 | \$0.00 | \$4,104.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 17 LIGHTING DEVICES | \$20,000.00 | \$20,000.00 | \$0.00 | \$0.00 | \$20,000.00 | 100.00% | \$0.00 | \$0.00 |
| AREA B | 18 LIGHTING CONDUIT | \$27,390.00 | \$27,390.00 | \$0.00 | \$0.00 | \$27,390.00 | 100.00% | \$0.00 | \$0.00 |
| AREA B | 19 LIGHTING CONDUIT | \$9,000.00 | \$9,000.00 | \$0.00 | \$0.00 | \$9,000.00 | 100.00% | \$0.00 | \$0.00 |
| AREA B | 20 LIGHTING WIRE | \$9,774.00 | \$9,774.00 | \$0.00 | \$0.00 | \$9,774.00 | 100.00% | \$0.00 | \$0.00 |
| AREA B | 21 LIGHTING WIRE | \$4,000.00 | \$4,000.00 | \$0.00 | \$0.00 | \$4,000.00 | 100.00% | \$0.00 | \$0.00 |
| AREA B | 22 LIGHTING FIXTURES | \$19,038.00 | \$19,038.00 | \$0.00 | \$0.00 | \$19,038.00 | 100.00% | \$0.00 | \$0.00 |
| AREA B | 23 LIGHTING FIXTURES | \$69,000.00 | \$69,000.00 | \$0.00 | \$0.00 | \$69,000.00 | 100.00% | \$0.00 | \$0.00 |
| AREA B | 24 LIGHTING DEVICES | \$1,064.00 | \$1,064.00 | \$0.00 | \$0.00 | \$1,064.00 | 100.00% | \$0.00 | \$0.00 |
| AREA B | 25 LIGHTING DEVICES | \$26,000.00 | \$26,000.00 | \$0.00 | \$0.00 | \$26,000.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 26 POWER CONDUIT | \$23,380.00 | \$23,380.00 | \$0.00 | \$0.00 | \$23,380.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 27 POWER CONDUIT | \$10,000.00 | \$10,000.00 | \$0.00 | \$0.00 | \$10,000.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 28 POWER WIRE | \$17,746.00 | \$17,746.00 | \$0.00 | \$0.00 | \$17,746.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 29 POWER WIRE | \$6,838.00 | \$6,838.00 | \$0.00 | \$0.00 | \$6,838.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 30 POWER DEVICES | \$4,602.00 | \$4,602.00 | \$0.00 | \$0.00 | \$4,602.00 | 100.00% | \$0.00 | \$0.00 |
| AREA A | 31 POWER DEVICES | \$2,275.00 | \$2,275.00 | \$0.00 | \$0.00 | \$2,275.00 | 100.00% | \$0.00 | \$0.00 |

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Pleasant Ridge Elementary School

APPLICATION NO. 4.9.2009
APPLICATION DATE: 4.9.2009
PERIOD TO: 4.9.2009

CHANGE ORDER 13

In tabulations below, amounts are stated to the nearest dollar. Use Column 1 on Contracts where variable retainage for line items may apply.

BP #7 Electrical/Technology

ARCHITECT'S PROJECT NO.

| A | B | C | D | E | F | G | H | I | |
|----------|------------------------------|-----------------|--|-------------|--|--|---------|---------------------------|------------------------------|
| ITEM NO. | DESCRIPTION OF WORK | SCHEDULED VALUE | WORK COMPLETED FROM PREVIOUS APPLICATION (D + E) | THIS PERIOD | MATERIALS PRESENTLY STORED (NOT IN D OR E) | TOTAL COMPLETED AND STORED TO DATE (D+E+H) | % (G+C) | BALANCE TO FINISH (C - G) | RETAINAGE (IF VARIABLE RATE) |
| 32 | POWER CONDUIT | \$24,662.00 | \$24,662.00 | \$0.00 | \$0.00 | \$24,662.00 | 100.00% | \$0.00 | \$0.00 |
| 33 | POWER CONDUIT | \$10,029.00 | \$10,029.00 | \$0.00 | \$0.00 | \$10,029.00 | 100.00% | \$0.00 | \$0.00 |
| 34 | POWER WIRE | \$16,492.00 | \$16,492.00 | \$0.00 | \$0.00 | \$16,492.00 | 100.00% | \$0.00 | \$0.00 |
| 35 | POWER WIRE | \$6,633.00 | \$6,633.00 | \$0.00 | \$0.00 | \$6,633.00 | 100.00% | \$0.00 | \$0.00 |
| 36 | POWER DEVICES | \$3,000.00 | \$3,000.00 | \$0.00 | \$0.00 | \$3,000.00 | 100.00% | \$0.00 | \$0.00 |
| 37 | POWER DEVICES | \$1,569.00 | \$1,569.00 | \$0.00 | \$0.00 | \$1,569.00 | 100.00% | \$0.00 | \$0.00 |
| 38 | FIRE ALARM CONDUIT | \$6,000.00 | \$6,000.00 | \$0.00 | \$0.00 | \$6,000.00 | 100.00% | \$0.00 | \$0.00 |
| 39 | FIRE ALARM WIRE | \$1,600.00 | \$1,600.00 | \$0.00 | \$0.00 | \$1,600.00 | 100.00% | \$0.00 | \$0.00 |
| 40 | FIRE ALARM WIRE | \$1,596.00 | \$1,596.00 | \$0.00 | \$0.00 | \$1,596.00 | 100.00% | \$0.00 | \$0.00 |
| 41 | FIRE ALARM WIRE | \$1,400.00 | \$1,400.00 | \$0.00 | \$0.00 | \$1,400.00 | 100.00% | \$0.00 | \$0.00 |
| 42 | FIRE ALARM DEVICES | \$4,000.00 | \$4,000.00 | \$0.00 | \$0.00 | \$4,000.00 | 100.00% | \$0.00 | \$0.00 |
| 43 | FIRE ALARM DEVICES | \$8,000.00 | \$8,000.00 | \$0.00 | \$0.00 | \$8,000.00 | 100.00% | \$0.00 | \$0.00 |
| 44 | FIRE ALARM CONDUIT | \$5,510.00 | \$5,510.00 | \$0.00 | \$0.00 | \$5,510.00 | 100.00% | \$0.00 | \$0.00 |
| 45 | FIRE ALARM CONDUIT | \$2,000.00 | \$2,000.00 | \$0.00 | \$0.00 | \$2,000.00 | 100.00% | \$0.00 | \$0.00 |
| 46 | FIRE ALARM WIRE | \$1,938.00 | \$1,938.00 | \$0.00 | \$0.00 | \$1,938.00 | 100.00% | \$0.00 | \$0.00 |
| 47 | FIRE ALARM WIRE | \$1,836.00 | \$1,836.00 | \$0.00 | \$0.00 | \$1,836.00 | 100.00% | \$0.00 | \$0.00 |
| 48 | FIRE ALARM DEVICES | \$4,256.00 | \$4,256.00 | \$0.00 | \$0.00 | \$4,256.00 | 100.00% | \$0.00 | \$0.00 |
| 49 | FIRE ALARM DEVICES | \$8,000.00 | \$8,000.00 | \$0.00 | \$0.00 | \$8,000.00 | 100.00% | \$0.00 | \$0.00 |
| 50 | CABLE TRAY | \$20,000.00 | \$20,000.00 | \$0.00 | \$0.00 | \$20,000.00 | 100.00% | \$0.00 | \$0.00 |
| 51 | CABLE TRAY | \$11,600.00 | \$11,600.00 | \$0.00 | \$0.00 | \$11,600.00 | 100.00% | \$0.00 | \$0.00 |
| 52 | CABLE TRAY | \$5,890.00 | \$5,890.00 | \$0.00 | \$0.00 | \$5,890.00 | 100.00% | \$0.00 | \$0.00 |
| 53 | CABLE TRAY | \$2,900.00 | \$2,900.00 | \$0.00 | \$0.00 | \$2,900.00 | 100.00% | \$0.00 | \$0.00 |
| 54 | TECH. CONDUIT | \$38,482.00 | \$38,482.00 | \$0.00 | \$0.00 | \$38,482.00 | 100.00% | \$0.00 | \$0.00 |
| 55 | TECH. CONDUIT | \$12,800.00 | \$12,800.00 | \$0.00 | \$0.00 | \$12,800.00 | 100.00% | \$0.00 | \$0.00 |
| 56 | TECH. CONDUIT | \$48,070.00 | \$48,070.00 | \$0.00 | \$0.00 | \$48,070.00 | 100.00% | \$0.00 | \$0.00 |
| 57 | TECH. CONDUIT | \$13,142.00 | \$13,142.00 | \$0.00 | \$0.00 | \$13,142.00 | 100.00% | \$0.00 | \$0.00 |
| 58 | TELE/DATA HORIZONTAL CABLING | \$23,000.00 | \$23,000.00 | \$0.00 | \$0.00 | \$23,000.00 | 100.00% | \$0.00 | \$0.00 |
| 59 | TELE/DATA HORIZONTAL CABLING | \$45,000.00 | \$45,000.00 | \$0.00 | \$0.00 | \$45,000.00 | 100.00% | \$0.00 | \$0.00 |
| 60 | TELE/DATA DEVICES | \$6,000.00 | \$6,000.00 | \$0.00 | \$0.00 | \$6,000.00 | 100.00% | \$0.00 | \$0.00 |
| 61 | TELE/DATA DEVICES | \$15,000.00 | \$15,000.00 | \$0.00 | \$0.00 | \$15,000.00 | 100.00% | \$0.00 | \$0.00 |
| 62 | TELE/DATA EQUIPMENT ROOM | \$6,000.00 | \$6,000.00 | \$0.00 | \$0.00 | \$6,000.00 | 100.00% | \$0.00 | \$0.00 |
| 63 | TELE/DATA EQUIPMENT ROOM | \$10,000.00 | \$10,000.00 | \$0.00 | \$0.00 | \$10,000.00 | 100.00% | \$0.00 | \$0.00 |
| 64 | TELE/DATA BACKBONE | \$30,000.00 | \$30,000.00 | \$0.00 | \$0.00 | \$30,000.00 | 100.00% | \$0.00 | \$0.00 |
| 65 | TELE/DATA BACKBONE | \$65,000.00 | \$65,000.00 | \$0.00 | \$0.00 | \$65,000.00 | 100.00% | \$0.00 | \$0.00 |

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column 1 on Contracts where variable retainage for line items may apply.

Pleasant Ridge Elementary School
BP #7 Electrical/Technology

APPLICATION NO. CHANGES ORDER 13
APPLICATION DATE: 4.9.2009
PERIOD TO: 4.9.2009
ARCHITECT'S PROJECT NO.

| A | B | C | D | E | F | G | H | I | |
|----------|----------------------------|-----------------|--|-------------|--|--|---------|-------------------------|------------------------------|
| ITEM NO. | DESCRIPTION OF WORK | SCHEDULED VALUE | WORK COMPLETED FROM PREVIOUS APPLICATION (D+E) | THIS PERIOD | MATERIALS PRESENTLY STORED (NOT IN D OR E) | TOTAL COMPLETED AND STORED TO DATE (D+G) | % (G+C) | BALANCE TO FINISH (C-G) | RETAINAGE (IF VARIABLE RATE) |
| 66 | DATA COMMUN. DATA SWITCHES | \$5,500.00 | \$5,500.00 | \$0.00 | \$0.00 | \$5,500.00 | 100.00% | \$0.00 | \$0.00 |
| 67 | DATA COMMUN. DATA SWITCHES | \$42,000.00 | \$42,000.00 | \$0.00 | \$0.00 | \$42,000.00 | 100.00% | \$0.00 | \$0.00 |
| 68 | ACCESS CONTROL EQUIPMENT | \$3,000.00 | \$3,000.00 | \$0.00 | \$0.00 | \$3,000.00 | 100.00% | \$0.00 | \$0.00 |
| 69 | ACCESS CONTROL EQUIPMENT | \$10,500.00 | \$10,500.00 | \$0.00 | \$0.00 | \$10,500.00 | 100.00% | \$0.00 | \$0.00 |
| 70 | ACCESS WIRE | \$8,000.00 | \$8,000.00 | \$0.00 | \$0.00 | \$8,000.00 | 100.00% | \$0.00 | \$0.00 |
| 71 | ACCESS WIRE | \$3,500.00 | \$3,500.00 | \$0.00 | \$0.00 | \$3,500.00 | 100.00% | \$0.00 | \$0.00 |
| 72 | INTRUSION EQUIPMENT | \$3,600.00 | \$3,600.00 | \$0.00 | \$0.00 | \$3,600.00 | 100.00% | \$0.00 | \$0.00 |
| 73 | INTRUSION WIRE | \$6,600.00 | \$6,600.00 | \$0.00 | \$0.00 | \$6,600.00 | 100.00% | \$0.00 | \$0.00 |
| 74 | INTRUSION WIRE | \$5,500.00 | \$5,500.00 | \$0.00 | \$0.00 | \$5,500.00 | 100.00% | \$0.00 | \$0.00 |
| 75 | AUDIO VISUAL CABLING | \$4,500.00 | \$4,500.00 | \$0.00 | \$0.00 | \$4,500.00 | 100.00% | \$0.00 | \$0.00 |
| 76 | AUDIO VISUAL CABLING | \$2,850.00 | \$2,850.00 | \$0.00 | \$0.00 | \$2,850.00 | 100.00% | \$0.00 | \$0.00 |
| 77 | AUDIO VISUAL CABLING | \$600.00 | \$600.00 | \$0.00 | \$0.00 | \$600.00 | 100.00% | \$0.00 | \$0.00 |
| 78 | AUDIO VISUAL DEVICES | \$14,500.00 | \$14,500.00 | \$0.00 | \$0.00 | \$14,500.00 | 100.00% | \$0.00 | \$0.00 |
| 79 | AUDIO VISUAL DEVICES | \$106,486.00 | \$106,486.00 | \$0.00 | \$0.00 | \$106,486.00 | 100.00% | \$0.00 | \$0.00 |
| 80 | STUDENT DINING CABLING | \$850.00 | \$850.00 | \$0.00 | \$0.00 | \$850.00 | 100.00% | \$0.00 | \$0.00 |
| 81 | STUDENT DINING CABLING | \$420.00 | \$420.00 | \$0.00 | \$0.00 | \$420.00 | 100.00% | \$0.00 | \$0.00 |
| 82 | STUDENT DINING DEVICES | \$1,700.00 | \$1,700.00 | \$0.00 | \$0.00 | \$1,700.00 | 100.00% | \$0.00 | \$0.00 |
| 83 | STUDENT DINING DEVICES | \$13,000.00 | \$13,000.00 | \$0.00 | \$0.00 | \$13,000.00 | 100.00% | \$0.00 | \$0.00 |
| 84 | GYM SOUND CABLING | \$1,550.00 | \$1,550.00 | \$0.00 | \$0.00 | \$1,550.00 | 100.00% | \$0.00 | \$0.00 |
| 85 | GYM SOUND CABLING | \$480.00 | \$480.00 | \$0.00 | \$0.00 | \$480.00 | 100.00% | \$0.00 | \$0.00 |
| 86 | GYM SOUND DEVICES | \$1,120.00 | \$1,120.00 | \$0.00 | \$0.00 | \$1,120.00 | 100.00% | \$0.00 | \$0.00 |
| 87 | GYM SOUND DEVICES | \$6,300.00 | \$6,300.00 | \$0.00 | \$0.00 | \$6,300.00 | 100.00% | \$0.00 | \$0.00 |
| 88 | MUSIC SOUND CABLING | \$400.00 | \$400.00 | \$0.00 | \$0.00 | \$400.00 | 100.00% | \$0.00 | \$0.00 |
| 89 | MUSIC SOUND CABLING | \$200.00 | \$200.00 | \$0.00 | \$0.00 | \$200.00 | 100.00% | \$0.00 | \$0.00 |
| 90 | MUSIC SOUND DEVICES | \$400.00 | \$400.00 | \$0.00 | \$0.00 | \$400.00 | 100.00% | \$0.00 | \$0.00 |
| 91 | MUSIC SOUND DEVICES | \$900.00 | \$900.00 | \$0.00 | \$0.00 | \$900.00 | 100.00% | \$0.00 | \$0.00 |
| 92 | MASTER ANTENNA CABLING | \$1,000.00 | \$1,000.00 | \$0.00 | \$0.00 | \$1,000.00 | 100.00% | \$0.00 | \$0.00 |
| 93 | MASTER ANTENNA CABLING | \$905.50 | \$905.50 | \$0.00 | \$0.00 | \$905.50 | 100.00% | \$0.00 | \$0.00 |
| 94 | MASTER ANTENNA DEVICES | \$3,900.00 | \$3,900.00 | \$0.00 | \$0.00 | \$3,900.00 | 100.00% | \$0.00 | \$0.00 |
| 95 | MASTER ANTENNA DEVICES | \$1,722.00 | \$1,722.00 | \$0.00 | \$0.00 | \$1,722.00 | 100.00% | \$0.00 | \$0.00 |
| 96 | CENTRAL SOUND CABLING | \$8,250.00 | \$8,250.00 | \$0.00 | \$0.00 | \$8,250.00 | 100.00% | \$0.00 | \$0.00 |
| 97 | CENTRAL SOUND CABLING | \$2,986.00 | \$2,986.00 | \$0.00 | \$0.00 | \$2,986.00 | 100.00% | \$0.00 | \$0.00 |
| 98 | CENTRAL SOUND DEVICES | \$5,800.00 | \$5,800.00 | \$0.00 | \$0.00 | \$5,800.00 | 100.00% | \$0.00 | \$0.00 |
| 99 | CENTRAL SOUND DEVICES | \$15,000.00 | \$15,000.00 | \$0.00 | \$0.00 | \$15,000.00 | 100.00% | \$0.00 | \$0.00 |
| 100 | VIDEO SURVEILLANCE CABLING | \$3,750.00 | \$3,750.00 | \$0.00 | \$0.00 | \$3,750.00 | 100.00% | \$0.00 | \$0.00 |
| 101 | VIDEO SURVEILLANCE CABLING | \$3,623.00 | \$3,623.00 | \$0.00 | \$0.00 | \$3,623.00 | 100.00% | \$0.00 | \$0.00 |

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE OF PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Pleasant Ridge Elementary School
BP #7 Electrical/Technology

APPLICATION NO. 4.9.2009
APPLICATION DATE: 4.9.2009
PERIOD TO: 4.9.2009
ARCHITECT'S PROJECT NO.

In tabulations below, amounts are stated to the nearest dollar.
Use Column I on Contracts where variable rate(s) for line items may apply.

| A | B | C | D | E | F | G | H | I | |
|----------|----------------------------|-----------------|--|-------------|----------------------------------|--|---------|-------------------------|----------------------------|
| ITEM NO. | DESCRIPTION OF WORK | SCHEDULED VALUE | WORK COMPLETED FROM PREVIOUS APPLICATION (D+E) | THIS PERIOD | MATERIALS STORED (NOT IN D OR E) | TOTAL COMPLETED AND STORED TO DATE (D+E+H) | % (G-C) | BALANCE TO FINISH (G-I) | RETAINAGE OF VARIABLE RATE |
| 102 | VIDEO SURVEILLANCE DEVICES | \$3,900.00 | \$3,900.00 | \$0.00 | \$0.00 | \$3,900.00 | 100.00% | | \$0.00 |
| 103 | VIDEO SURVEILLANCE DEVICES | \$30,000.00 | \$30,000.00 | \$0.00 | \$0.00 | \$30,000.00 | 100.00% | | \$0.00 |

DISTRIBUTION AND SERVICE

| | | | | | | | | | |
|-----|------------------------|-------------|-------------|--------|--------|-------------|---------|--|--------|
| 104 | DISTRIBUTION CONDUIT | \$36,678.00 | \$36,678.00 | \$0.00 | \$0.00 | \$36,678.00 | 100.00% | | \$0.00 |
| 105 | DISTRIBUTION CONDUIT | \$25,000.00 | \$25,000.00 | \$0.00 | \$0.00 | \$25,000.00 | 100.00% | | \$0.00 |
| 106 | DISTRIBUTION WIRE | \$18,000.00 | \$18,000.00 | \$0.00 | \$0.00 | \$18,000.00 | 100.00% | | \$0.00 |
| 107 | DISTRIBUTION WIRE | \$23,000.00 | \$23,000.00 | \$0.00 | \$0.00 | \$23,000.00 | 100.00% | | \$0.00 |
| 108 | DISTRIBUTION EQUIPMENT | \$12,000.00 | \$12,000.00 | \$0.00 | \$0.00 | \$12,000.00 | 100.00% | | \$0.00 |
| 109 | DISTRIBUTION EQUIPMENT | \$98,000.00 | \$98,000.00 | \$0.00 | \$0.00 | \$98,000.00 | 100.00% | | \$0.00 |
| 110 | GENERATOR LABOR | \$2,500.00 | \$2,500.00 | \$0.00 | \$0.00 | \$2,500.00 | 100.00% | | \$0.00 |
| 111 | GENERATOR MATERIAL | \$23,000.00 | \$23,000.00 | \$0.00 | \$0.00 | \$23,000.00 | 100.00% | | \$0.00 |

SITE WORK

| | | | | | | | | | |
|-----|----------------------|-------------|-------------|--------|--------|-------------|---------|--|--------|
| 112 | SITE SERVICE CONDUIT | \$4,000.00 | \$4,000.00 | \$0.00 | \$0.00 | \$4,000.00 | 100.00% | | \$0.00 |
| 113 | SITE SERVICE CONDUIT | \$12,000.00 | \$12,000.00 | \$0.00 | \$0.00 | \$12,000.00 | 100.00% | | \$0.00 |
| 114 | SITE SERVICE WIRE | \$5,500.00 | \$5,500.00 | \$0.00 | \$0.00 | \$5,500.00 | 100.00% | | \$0.00 |
| 115 | SITE SERVICE WIRE | \$17,000.00 | \$17,000.00 | \$0.00 | \$0.00 | \$17,000.00 | 100.00% | | \$0.00 |
| 116 | SITE FIXTURE CONDUIT | \$5,500.00 | \$5,500.00 | \$0.00 | \$0.00 | \$5,500.00 | 100.00% | | \$0.00 |
| 117 | SITE FIXTURE CONDUIT | \$4,500.00 | \$4,500.00 | \$0.00 | \$0.00 | \$4,500.00 | 100.00% | | \$0.00 |
| 118 | SITE FIXTURE WIRE | \$3,380.00 | \$3,380.00 | \$0.00 | \$0.00 | \$3,380.00 | 100.00% | | \$0.00 |
| 119 | SITE FIXTURE WIRE | \$3,000.00 | \$3,000.00 | \$0.00 | \$0.00 | \$3,000.00 | 100.00% | | \$0.00 |
| 120 | SITE FIXTURES | \$3,000.00 | \$3,000.00 | \$0.00 | \$0.00 | \$3,000.00 | 100.00% | | \$0.00 |
| 121 | SITE FIXTURES | \$24,000.00 | \$24,000.00 | \$0.00 | \$0.00 | \$24,000.00 | 100.00% | | \$0.00 |
| 122 | EXCAVATION | \$18,000.00 | \$18,000.00 | \$0.00 | \$0.00 | \$18,000.00 | 100.00% | | \$0.00 |
| 123 | EXCAVATION | \$12,000.00 | \$12,000.00 | \$0.00 | \$0.00 | \$12,000.00 | 100.00% | | \$0.00 |

ALLOWANCE

| | | | | | | | | | |
|-----|-------------------|------------|------------|--------|--------|------------|---------|------------|--------|
| 124 | DISC. ALLOWANCE | \$9,000.00 | \$5,633.61 | \$0.00 | \$0.00 | \$5,633.61 | 62.60% | \$3,366.39 | \$0.00 |
| 125 | GENERAL ALLOWANCE | \$7,500.00 | \$7,500.00 | \$0.00 | \$0.00 | \$7,500.00 | 100.00% | | \$0.00 |
| 126 | GENERAL ALLOWANCE | \$7,500.00 | \$7,500.00 | \$0.00 | \$0.00 | \$7,500.00 | 100.00% | | \$0.00 |

MISC.

| | | | | | | | | | |
|-----|-------------------------|-------------|-------------|--------|--------|-------------|---------|--|--------|
| 127 | SCOREBOARD LABOR | \$500.00 | \$500.00 | \$0.00 | \$0.00 | \$500.00 | 100.00% | | \$0.00 |
| 128 | SCOREBOARD MATERIAL | \$3,745.00 | \$3,745.00 | \$0.00 | \$0.00 | \$3,745.00 | 100.00% | | \$0.00 |
| 129 | LIGHTNING PROTECTION | \$8,700.00 | \$8,700.00 | \$0.00 | \$0.00 | \$8,700.00 | 100.00% | | \$0.00 |
| 130 | LIGHTNING PROTECTION | \$14,000.00 | \$14,000.00 | \$0.00 | \$0.00 | \$14,000.00 | 100.00% | | \$0.00 |
| 131 | PCO #46 CHANGE ORDER #2 | \$13,771.00 | \$13,771.00 | \$0.00 | \$0.00 | \$13,771.00 | 100.00% | | \$0.00 |

AM DOCUMENT G703 - CONTINUATION SHEET FOR G702 - 1992 EDITION - AIA - Q1382
THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVENUE, N.W., WASHINGTON, D.C. 20006-5232

CONTINUATION SHEET

AIA DOCUMENT C703

Page of Pages

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated in the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

Pleasant Ridge Elementary School
BP #7 Electrical/Technology

ARCHITECT'S PROJECT NO:

APPLICATION NO: CHANGE ORDER 13
APPLICATION DATE: 4.9.2009
PERIOD TO: 4.9.2009

| A | B | C | D | E | F | G | H | I | |
|----------|--|-----------------|--|-------------|--|--|-----------|---------------------------|------------------------------|
| ITEM NO. | DESCRIPTION OF WORK | SCHEDULED VALUE | WORK COMPLETED FROM PREVIOUS APPLICATION (D - E) | THIS PERIOD | MATERIALS PRESENTLY STORED (NOT IN D OR E) | TOTAL COMPLETED AND STORED TO DATE (G+H) | % (G + C) | BALANCE TO FINISH (C - G) | RETAINAGE (IF VARIABLE RATE) |
| 132 | PCO #46 CHANGE ORDER 03 | \$20,461.00 | \$20,461.00 | \$0.00 | \$0.00 | \$20,461.00 | 100.00% | \$0.00 | \$0.00 |
| 133 | PCO #4047 CHANGE ORDER 04 | \$4,959.00 | \$4,959.00 | \$0.00 | \$0.00 | \$4,959.00 | 100.00% | \$0.00 | \$0.00 |
| 134 | PCO #070 I&Z METER PIT SLUMP PUMP #5 | \$5,414.00 | \$5,414.00 | \$0.00 | \$0.00 | \$5,414.00 | 100.00% | \$0.00 | \$0.00 |
| 135 | PCO # CHANGE ORDER 6 | \$2,518.00 | \$2,518.00 | \$0.00 | \$0.00 | \$2,518.00 | 100.00% | \$0.00 | \$0.00 |
| 136 | PCO# 88.92 CHANGE ORDER 7 | \$513.00 | \$513.00 | \$0.00 | \$0.00 | \$513.00 | 100.00% | \$0.00 | \$0.00 |
| 138 | PCO #106 CHANGE ORDER 9 | \$15,785.00 | \$15,785.00 | \$0.00 | \$0.00 | \$15,785.00 | 100.00% | \$0.00 | \$0.00 |
| 140 | PCO # 086 CHANGE ORDER 11 | \$9,133.00 | \$9,133.00 | \$0.00 | \$0.00 | \$9,133.00 | 100.00% | \$0.00 | \$0.00 |
| 141 | PCO#46,47,70,80,92,113,CHANGE ORDER 10 | \$884.00 | \$884.00 | \$0.00 | \$0.00 | \$884.00 | 100.00% | \$0.00 | \$0.00 |
| 142 | PCO#86 BP#7 CHANGE ORDER 012R1 | \$4,740.00 | \$4,740.00 | \$0.00 | \$0.00 | \$4,740.00 | 100.00% | \$0.00 | \$0.00 |
| 143 | PCO 141 CHANGE ORDER 13 | \$17,172.00 | \$0.00 | \$17,172.00 | \$0.00 | \$17,172.00 | 100.00% | \$0.00 | \$0.00 |
| 144 | PCO 144, 160 CHANGE ORDER 14 | \$3,904.00 | \$0.00 | \$0.00 | \$0.00 | \$3,904.00 | 100.00% | \$0.00 | \$0.00 |
| 145 | PCO 162 CHANGE ORDER 15 | \$3,832.00 | \$0.00 | \$0.00 | \$0.00 | \$3,832.00 | 100.00% | \$0.00 | \$0.00 |
| 146 | PCO 148 SECURITY SYSTEM C/O 16 | \$17,150.00 | \$0.00 | \$0.00 | \$0.00 | \$17,150.00 | 100.00% | \$0.00 | \$0.00 |
| 147 | PCO 132 CHANGE ORDER 17 | \$4,569.00 | \$0.00 | \$0.00 | \$0.00 | \$4,569.00 | 100.00% | \$0.00 | \$0.00 |
| | | \$1,906,055.00 | \$1,856,061.61 | \$17,172.00 | \$0.00 | \$1,873,233.61 | 98.28% | \$32,821.39 | \$0.00 |



Commonwealth of KENTUCKY
 County of Jefferson ss Louisville KY April 7th 20 09

James Olliges, being first duly sworn, says that he/she is Vice President
 of UNITED ELECTRIC CO., INC. the (sub Original) Contractor having a contract with
 Ohio School Facilities Commission the Owner
 for electrical work
 a school situated on or around or in front of the following described property,
 in Hamilton County, Ohio, viz: New Pleasant Ridge Elementary School located at 5945 Montgomery Road
 in Cincinnati Ohio 45213.
 whereof Ohio School Facilities Commission/City Public Schools was the owner, part owner or lessee.

SUB-CONTRACTORS

Affiant further says that the following shows the names and addresses of every sub-contractor in the employ of said
 United Electric Co., Inc. giving the amount, if any, which is due, or to become due, to them, or any of them, for
 work done, or machinery, material or fuel furnished to date hereof, under said contracts.

NOTE - This statement must be accompanied by a similar sworn statement signed by each of the sub-contractors listed below.

| NAME | ADDRESS | TRADE | Amount Due or to Become Due for Work and Materials to Hereof | Date |
|------------------|---------|-------|--|------|
| NONE THIS PERIOD | | | \$0.00 | |

MATERIAL MEN

Said affiant further says that the following shows the names and addresses of every person furnishing machinery, material or fuel
 to United Electric giving the amount, if any, which is due, or to become due, to them,
 or any of them, for machinery, material or fuel furnished to date hereof, under said contracts.

| NAME | ADDRESS | Kind of Machinery, Material or Fuel | Amount Due or to Become Due for Material Furnished to Hereof | Date |
|------------------|---------|-------------------------------------|--|------|
| NONE THIS PERIOD | | | | |

NOTE - The above must be accompanied by "Certificate of Materialmen," in any of such certificate, there may be furnished a written release of lien, a written release or receipt.

LABOR

Said affiant further says that the following shows the names and addresses of every unpaid laborer in the employ of
 United Electric Co., Inc. furnishing labor under said contract, giving the amount, if any, which
 is due, or to become due, for labor done to date hereof.

NOTE - If the fact is that every laborer has been paid in full, then recite: "Every laborer has been paid in full." If not, then give each unpaid laborer's name and address and the amount due or to become due.

| NAME | ADDRESS | HOURS | Amount Due or to Become Due for Labor Furnished to Hereof | Date |
|--------------------------------------|---------|-------|---|------|
| All laborers have been paid in full. | | | | |

Affiant further states that there is due or to become due to United Electric Co., Inc.
 for work performed or machinery, material or fuel furnished to Ohio School Facilities Commission/City Public Schools
 hereof under said contracts, the sum of \$ 17,172.00 (Owner or Contractor) To State

That the amounts due or to become due to said sub-contractors, material-men and laborers, for work done or machinery, material or fuel furnished to the date hereof,
 to United Electric Co., Inc.
 are fully and correctly set forth opposite their names, respectively, in the aforesaid statements, and further evidenced by certificates of every person furnishing machinery,
 material or fuel, hereto attached, and made a part hereof.

Affiant further says that United Electric Co., Inc.
 has not employed or purchased or procured machinery, material or fuel from, or sub-contracted with any person, firm or corporation, other than those above mentioned, and
 owes for no labor performed, or machinery, material or fuel furnished, under said contracts, other than above set forth.

James E. Olliges
 James Olliges, Vice President

SWORN TO BEFORE ME AND SUBSCRIBED IN MY PRESENCE, at Louisville KY
 this 7th day of April 20 2009

Notary Signature
 NOTARY PUBLIC
 3/16/09

1. Sady, Texas, one of firm, or agent, as case may be.
 2. Name and address.
 3. "Owner," "part-owner," "lessee," or "authorized agent of the owner, part-owner or lessee" or "original" or "principal" contractor under a contract with
 the owner, part-owner or lessee, as the

4. "Constructing, altering or repairing a body, vessel or other work, or erecting, fitting, repairing or removing a house, mill, manufactory, or any furnace or furnace material, bridge, or other building, apparatus, tower, bridge or other structure," or "digging, drilling, boring, operating, completing and repairing of any gas well, oil well or other well," or "hauling, repairing or constructing any of derrick, oil tank, oil or gas pipe line," or "furnishing tie for the crewage of any pit or land."

Ohio way to

5. Accurate description of property.
6. Contractor or sub-contractor executing affidavit.

AFFIDAVIT
OF
ORIGINAL OR SUB-CONTRACTOR

OWNER

#1-OR-CONTRACTOR

SUB-CONTRACTOR

DATE _____ 20__

Anderson Publishing Co., Cincinnati, Ohio 45201

APPLICATION AND CERTIFICATE FOR PAYMENT

TO OWNER: CPS Schools/Turner Construction
2316 Iowa Avenue
Cincinnati, Ohio 45206

PROJECT:

Pleasant Ridge Elementary
5945 Montgomery Road
Cincinnati, Ohio 45213

APPLICATION No:

18
March 31, 2009

PERIOD TO:

PROJECT NOS:

222A/2007

CONTRACT DATE:

Invoice No: 1226-RET

FROM CONTRACTOR: Feldkamp Enterprises, Inc.
3642 Muddy Creek Road
Cincinnati, Ohio 45238

VIA ARCHITECT:

CONTRACT FOR: Pleasant Hill Elementary

CONTRACTOR'S APPLICATION FOR PAYMENT

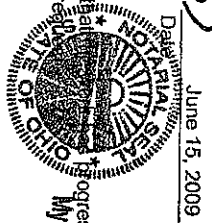
Application is made for payment as shown below, in connection with the Contract Continuation sheet is attached.

1. ORIGINAL CONTRACT SUM.....\$ 1,566,000.00
2. Net Change by Change Orders.....\$ 5,413.00
3. CONTRACT SUM TO DATE.....\$ 1,571,413.00
4. TOTAL COMPLETED & STORED TO DATE.....\$ 1,571,413.00
5. RETAINAGE
 - a. 8-50% of Completed Labor.....\$ 0.00
 - b. 8% of Stored Material.....\$ 0.00
 Total Retainage.....\$ 0.00
6. TOTAL EARNED LESS RETAINAGE.....\$ 1,571,413.00
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT.....\$ 1,494,785.00
8. CURRENT PAYMENT DUE.....\$ 76,628.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE.....\$ 0.00

| Change Order/Contract | ADDITIONS | DEDUCTIONS |
|--|----------------|------------|
| Total Changes approved in Previous months by Owner | 5413.00 | |
| Total approved this month | 0.00 | |
| TOTALS | 5413.00 | |
| NET CHANGES by Change Order | | |

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.

Contractor Charles J. Kelly
Paul Meyer



Based upon on-site observations, the firm affirms that the percentage of completeness indicated on the pay request is correct.

Architect Don Brown
Date 4/22/09

Construction Manager [Signature]
Date 6/16/09

Approved: _____
School District Treasurer _____
Date _____

CONTINUATION SHEET

| ITEM NUMBER | DESCRIPTION OF WORK | SCHEDULED VALUE | WORK COMPLETED | | MATERIALS PRESENTLY STORED | TOTAL COMPLETED | | BALANCE TO FINISH | RETAINAGE |
|-------------|---------------------------|-----------------|----------------|-------------|----------------------------|------------------|---------|-------------------|-----------|
| | | | PREVIOUS APPS | THIS PERIOD | | & STORED TO DATE | % | | |
| 1.00 | BOND | 16,000.00 | 16,000.00 | 0.00 | 0.00 | 16,000.00 | 100.00% | 0.00 | 0.00 |
| 2.00 | SUBMITTALS | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00% | 0.00 | 0.00 |
| 3.00 | L COORDINATION DRAWINGS | 30,000.00 | 30,000.00 | 0.00 | 0.00 | 30,000.00 | 100.00% | 0.00 | 0.00 |
| 4.00 | M COORDINATION DRAWINGS | 2,000.00 | 2,000.00 | 0.00 | 0.00 | 2,000.00 | 100.00% | 0.00 | 0.00 |
| 5.00 | MOBILIZATION | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00% | 0.00 | 0.00 |
| 6.00 | M CLEAN UP | 1,000.00 | 1,000.00 | 0.00 | 0.00 | 1,000.00 | 100.00% | 0.00 | 0.00 |
| 7.00 | L CLEAN UP | 7,000.00 | 7,000.00 | 0.00 | 0.00 | 7,000.00 | 100.00% | 0.00 | 0.00 |
| 8.00 | M CLOSE-OUT | 7,500.00 | 7,500.00 | 0.00 | 0.00 | 7,500.00 | 100.00% | 0.00 | 0.00 |
| 9.00 | L CLOSE-OUT | 7,500.00 | 7,500.00 | 0.00 | 0.00 | 7,500.00 | 100.00% | 0.00 | 0.00 |
| 10.00 | M PUNCHLIST | 2,000.00 | 2,000.00 | 0.00 | 0.00 | 2,000.00 | 100.00% | 0.00 | 0.00 |
| 11.00 | L PUNCHLIST | 6,000.00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 100.00% | 0.00 | 0.00 |
| 12.00 | M ALLOWANCE | 6,000.00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 100.00% | 0.00 | 0.00 |
| 13.00 | L ALLOWANCE | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00% | 0.00 | 0.00 |
| 14.00 | M AHU #1 | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00% | 0.00 | 0.00 |
| 15.00 | L AHU #1 | 3,000.00 | 3,000.00 | 0.00 | 0.00 | 3,000.00 | 100.00% | 0.00 | 0.00 |
| 16.00 | M AHU #2 | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00% | 0.00 | 0.00 |
| 17.00 | L AHU #2 | 3,000.00 | 3,000.00 | 0.00 | 0.00 | 3,000.00 | 100.00% | 0.00 | 0.00 |
| 18.00 | M AHU #3 | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00% | 0.00 | 0.00 |
| 19.00 | L AHU #3 | 3,000.00 | 3,000.00 | 0.00 | 0.00 | 3,000.00 | 100.00% | 0.00 | 0.00 |
| 20.00 | M MISC HVAC EQUIPMENT | 375,501.00 | 375,501.00 | 0.00 | 0.00 | 375,501.00 | 100.00% | 0.00 | 0.00 |
| 21.00 | L MISC HVAC EQUIPMENT | 14,000.00 | 14,000.00 | 0.00 | 0.00 | 14,000.00 | 100.00% | 0.00 | 0.00 |
| 22.00 | M HYDRONIC EQUIPMENT | 140,000.00 | 140,000.00 | 0.00 | 0.00 | 140,000.00 | 100.00% | 0.00 | 0.00 |
| 23.00 | L HYDRONIC EQUIPMENT | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00% | 0.00 | 0.00 |
| 24.00 | M BOILERS | 60,000.00 | 60,000.00 | 0.00 | 0.00 | 60,000.00 | 100.00% | 0.00 | 0.00 |
| 25.00 | L BOILERS | 4,000.00 | 4,000.00 | 0.00 | 0.00 | 4,000.00 | 100.00% | 0.00 | 0.00 |
| 26.00 | M AREA A 1ST FLOOR PIPING | 9,500.00 | 9,500.00 | 0.00 | 0.00 | 9,500.00 | 100.00% | 0.00 | 0.00 |
| 27.00 | L AREA A 1ST FLOOR PIPING | 10,138.00 | 10,138.00 | 0.00 | 0.00 | 10,138.00 | 100.00% | 0.00 | 0.00 |
| 28.00 | M AREA B 1ST FLOOR PIPING | 55,100.00 | 55,100.00 | 0.00 | 0.00 | 55,100.00 | 100.00% | 0.00 | 0.00 |
| 29.00 | L AREA B 1ST FLOOR PIPING | 58,800.00 | 58,800.00 | 0.00 | 0.00 | 58,800.00 | 100.00% | 0.00 | 0.00 |
| 30.00 | M AREA A 2ND FLOOR PIPING | 1,900.00 | 1,900.00 | 0.00 | 0.00 | 1,900.00 | 100.00% | 0.00 | 0.00 |
| 31.00 | L AREA A 2ND FLOOR PIPING | 2,027.00 | 2,027.00 | 0.00 | 0.00 | 2,027.00 | 100.00% | 0.00 | 0.00 |
| 32.00 | M AREA B 2ND FLOOR PIPING | 9,500.00 | 9,500.00 | 0.00 | 0.00 | 9,500.00 | 100.00% | 0.00 | 0.00 |
| 33.00 | L AREA B 2ND FLOOR PIPING | 10,138.00 | 10,138.00 | 0.00 | 0.00 | 10,138.00 | 100.00% | 0.00 | 0.00 |
| 34.00 | M MECHANICAL ROOM PIPING | 19,000.00 | 19,000.00 | 0.00 | 0.00 | 19,000.00 | 100.00% | 0.00 | 0.00 |
| 35.00 | L MECHANICAL ROOM PIPING | 20,276.00 | 20,276.00 | 0.00 | 0.00 | 20,276.00 | 100.00% | 0.00 | 0.00 |
| 36.00 | M DUCT WORK | 130,000.00 | 130,000.00 | 0.00 | 0.00 | 130,000.00 | 100.00% | 0.00 | 0.00 |
| 37.00 | L DUCT WORK | 125,000.00 | 125,000.00 | 0.00 | 0.00 | 125,000.00 | 100.00% | 0.00 | 0.00 |
| 38.00 | M FANS | 1,000.00 | 1,000.00 | 0.00 | 0.00 | 1,000.00 | 100.00% | 0.00 | 0.00 |
| 39.00 | L FANS | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00% | 0.00 | 0.00 |
| 40.00 | M AIR DEVICES | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00% | 0.00 | 0.00 |
| 41.00 | L AIR DEVICES | 7,000.00 | 7,000.00 | 0.00 | 0.00 | 7,000.00 | 100.00% | 0.00 | 0.00 |
| 42.00 | M SUBCONTRACTORS | 30,000.00 | 30,000.00 | 0.00 | 0.00 | 30,000.00 | 100.00% | 0.00 | 0.00 |
| 43.00 | L INSULATION | 44,500.00 | 44,500.00 | 0.00 | 0.00 | 44,500.00 | 100.00% | 0.00 | 0.00 |
| 44.00 | M TEMP CONTROLS | 40,000.00 | 40,000.00 | 0.00 | 0.00 | 40,000.00 | 100.00% | 0.00 | 0.00 |
| 45.00 | L TEMP CONTROLS | 80,000.00 | 80,000.00 | 0.00 | 0.00 | 80,000.00 | 100.00% | 0.00 | 0.00 |
| 47.00 | M ENGINEERING | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00% | 0.00 | 0.00 |
| 48.00 | L AIR/WATER BALANCE | 12,820.00 | 12,820.00 | 0.00 | 0.00 | 12,820.00 | 100.00% | 0.00 | 0.00 |
| 49.00 | M CO #1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00% | 0.00 | 0.00 |
| 50.00 | L CO #2 | 1,467.00 | 1,467.00 | 0.00 | 0.00 | 1,467.00 | 100.00% | 0.00 | 0.00 |
| 51.00 | M CO #3 | 321.00 | 321.00 | 0.00 | 0.00 | 321.00 | 100.00% | 0.00 | 0.00 |
| 52.00 | L CO #4 | 1,364.00 | 1,364.00 | 0.00 | 0.00 | 1,364.00 | 100.00% | 0.00 | 0.00 |
| 53.00 | M CO #5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00% | 0.00 | 0.00 |
| 54.00 | L CO #6 | 2,261.00 | 2,261.00 | 0.00 | 0.00 | 2,261.00 | 100.00% | 0.00 | 0.00 |
| | Total | 1,571,413 | 1,571,413 | 0 | 0 | 1,571,413 | 100 | 0 | 0 |

The Ohio School Facilities Commission
 10 West Broad Street
 Suite 1400
 Columbus, Ohio 43215

Contractor's Name:
 Address:

Feldkamp Enterprises, Inc.
 3642 Muddy Creek Road
 Cincinnati, Ohio 45238

Contractor Pay Application Summary

Project Name
 Bid Package No.

| | | | |
|----|---|----|--------------|
| 1 | Original Contract Amount | \$ | 1,566,000.00 |
| 2 | Net Changes to Date | \$ | 5,413.00 |
| 3 | Current Contract Amount | \$ | 1,571,413.00 |
| 4 | Labor Completed to Date | \$ | 533,072.25 |
| 5 | Material Completed to Date | \$ | 1,038,340.75 |
| 6 | Total Work Completed to Date | \$ | 1,571,413.00 |
| 7 | Store Material to Date | \$ | 0.00 |
| 8 | Less Retained to Date | \$ | 0.00 |
| 9 | Total Amount Due | \$ | 1,571,413.00 |
| 10 | Less Previous Payments | \$ | 1,494,785.00 |
| 11 | Less Amount Retained to Cover Lien | \$ | 0.00 |
| 12 | Less Amount Retained for Liquidated Damages | \$ | 0.00 |
| 13 | Less Other Amounts Withheld | \$ | 0.00 |
| 14 | Current Due | \$ | 76,628.00 |
| 15 | Balance to Complete | \$ | 0.00 |

OSFC approval required for the following contract adjustments:

1. Assessment of liquidated damages
2. Other amounts withheld

Ohio School Facilities Commission _____ Date _____

Comments:
