AMENDMENT NO. 2

This Amendment modifies Contract No. 12-60-350, for Guaranteed Energy Performance Contract for Cook County Hospital and Health Care Facilities by and between the County of Cook, Illinois, herein referred to as "County" and Johnson Controls, Inc., authorized to do business in the State of Illinois hereinafter referred to as "Contractor":

RECITALS

Whereas, the County and Contractor have entered into a Contract approved by the County Board on July 27, 2011, (hereinafter referred to as the "Contract"), wherein the Contractor is to provide engineering and construction services (hereinafter referred to as the "Services") for the Stroger Hospital of Cook County Campus. Under Phase I, the Contractor performs a comprehensive investment grade audit.

Whereas, Amendment # 1 was executed on July 24, 2012 to provide Phase II, the construction services necessary to implement the agreed ECMs in Phase I audit. The construction services is 2 years beginning on July 24, 2012 followed by 20 years of monitoring through July 23, 2034 in the amount of \$26,497,854.00; and

Whereas, the County and Contractor desire to revise the scope of services provided in Phase II of the Contract.

Now therefore, in consideration of mutual covenants contained herein, it is agreed by and between the parties to amend the Contract as follows:

- The Contract is hereby amended to incorporate Attachment A and made part of the Contract.
- 2. The attached Economic Disclosures Statement, Identification of Sub-Contractors/Suppliers/Sub-Consultants Form and MBE/WBE Utilization Plan forms are also incorporated as Attachment B and made a part of this Contract.
- 3. All other terms and conditions remain as stated in the Contract.

In witness whereof, the County and Contractor have caused this Amendment No. 2 to be executed on the date and year last written below.

County of Cook, Illinois

By: Chief Procurement Officer

By: State's Attorney

Richard W. Smith
Type or print name

Branch General Manager

Title

Date: October 13, 2016



DELEGATION OF AUTHORITY

The undersigned, President of Johnson Controls, Inc., a Wisconsin corporation (the "Company"), pursuant to the authority vested in him by a certain resolution adopted by the Board of Directors of the Company on January 23, 1980 hereby authorizes

Richard W. Smith Branch General Manager

(hereinafter, the "Delegate") to perform, on behalf of the Company, the acts described below:

To execute and deliver any and all contracts for the performance of work, sale of goods, and furnishing of services, and any other instruments in connection therewith and in the ordinary course of business.

This authority does not extend to:

- a. the execution of surety, performance or bid bonds;
- b. the collection, receipt and recovery of monies due or to become due to the Company and the issuance of receipts and releases for the payment thereof;
- c. the signing of any notes, contracts, or any other agreement to borrow money in the name of the Company, or any form of guaranty for the payment or performance of obligations of any subsidiary, affiliate, or joint venture of the Company; or
- d. the signing, on behalf of the Company, of any deeds, abstracts, offers to purchase or any other instruments pertaining to the purchase or sale of real property.

Any actions taken by such Delegate within the scope of acts authorized herein taken between the date of expiration of any prior delegation of authority and the date hereof are hereby ratified, confirmed and approved as the acts and deeds of this Company.

SCONS

This authority shall remain in full force and effect through June 17, 2017.

Signed at Milwaukee, Wisconsin, this 18th day of June, 2016.

ATTEST:

Brian & Cadwallader, Secretary

Alex A. Molinaroli, President

ATTACHMENT A

EXHIBIT Q

Add the following supplemental changes to Exhibit Q:

Substantive Changes in Contract Scope

The changes made reference the 397 page .pdf copy of contract document "Guaranteed Energy Performance Project" dated July 24, 2012.

Changes;

1. Replace the affected contract sections and pages with the following pages.

G. Deliverables All Electronic Deliverables shall be delivered or emailed to the Project Director and any Construction Manager. When required by file size, "delivery" shall mean the physical delivery of a CD, "flash drive" or other agreed to electronic medium readable by the County in such quantities as the County may request. In addition, one reproducible copy of all Electronic Deliverables shall be provided. The ESCO shall, as a part of its Services submit copies of Printed Deliverables in such numbers as are requested by the Project Director or any Construction Manager to be submitted in hard copy. The ESCO acknowledges that Printed Deliverables may include drawings, plans and similar material that are otherwise considered Electronic Deliverables. Copying and printing of Printed Deliverables and other similar deliverables shall be printed on both sides of the paper. Paper utilized for submissions and deliverables shall be recycled paper containing at least 30 percent post-consumer content, unless use of such recycled paper is not practicable. The County reserves the right to revise these procedures, as it deems necessary. Any such revisions shall be effective upon receipt of written notice thereof from the County to the ESCO.

SECTION 4. BASIS OF COMPENSATION TO THE ESCO.

A. Compensation For Construction and Installation Services. The County will pay the ESCO for the due, proper, and complete performance of the Construction and Installation Services as required hereunder an amount not to exceed \$26,497,854 (the "Construction and Installation Amount"), such amount to be based on the Payment Schedule set forth Exhibit J. Payments of the Construction and Installation Amount shall be submitted monthly and shall be based on the percentage of Construction and Installation Services completed as determined in the Cost Loaded Schedule set forth as part of Exhibit J. The Construction and Installation Amount shall include all expenses and reimbursement.

B. (Reserved)

- C. Compensation for Performance Tracking (M&V) and Maintenance Services. Commencing upon the Performance Guarantee Commencement Date and continuing until the expiration or earlier termination of this Contract, the ESCO will perform the Performance Tracking and Maintenance Services. During the Guarantee Period, the County will make annual payments to the ESCO for the Performance Tracking and Maintenance Services in the amounts set forth in Exhibit K (each, a "Performance Tracking Payment").
- D. Contract Sum. The sum of the amounts described in paragraphs 4A-4C above shall be known as the Contract Sum.
- Environmental Incentives. Except as set forth in this Subsection, the County will own, and may assign or sell in its sole discretion, all right, title, and interest associated with Environmental Incentives. Environmental Incentives will not be included within any calculation of savings or otherwise reduce the ESCO's responsibility for achieving the Guaranteed Annual Savings Amount or Guaranteed Project Savings Amount, as such terms are defined in Exhibit G; Notwithstanding the foregoing, the ESCO will be designated the sole beneficiary of tax deductions arising under Section 179D of the Internal Revenue Code.
- 2. Replace on page 12 out of 397 the date of "September 17, 2014 with "December 31, 2014, unless by owner approval".
- 3. Changes to Exhibit C starting page 61 of 397

Johnson Controls has worked very closely with the county on this Guaranteed Energy Performance Contract to complete the work associated with the contract, and any scope changes as dictated by final design, site conditions, or customer (Cook County) preference were documented during installation. This document

intends to summarize major changes to the design/build scope – so that all parties have a single document to refer to for future reference.

Building	ECM Tag	ECM Name	Page Number (of 408)	Major Change
Stroger Hospital	SH-1	Lighting Upgrades		No
Stroger Hospital	SH-14	VAV Box Optimization		Yes
Stroger Hospital	SH-15	Electronic Filter Retrofit	63	No
Stroger Hospital	SH-18	Lighting Controller Upgrade	64	No
Stroger Hospital	SH-19	Parking Garage Lighting Retrofit	64	No
Stroger Hospital	SH-20	Waste Management	65	Yes
Stroger Hospital	SH-22	Demand Response	66	No
Stroger Hospital	SH-26	Ventilation AHUs Improvement	68	No
Power House	SH-13	Chiller Plant Optimization	69	Yes
Power House	SH-23	Boiler Stack Condensing Economizer	70	No
Institute of Forensic Medicine	IFM-1	Lighting Upgrades		No
Institute of Forensic Medicine	IFM-2	Chiller Replacement		Yes
Institute of Forensic Medicine	IFM-3	Boiler Replacement		Yes
Institute of Forensic Medicine	IFM-4	Domestic Water System Upgrades		Yes
Institute of Forensic Medicine	IFM-5	AHU Controls and Electronic Filter Upgrades	74	No
Institute of Forensic Medicine	IFM-6	Inactive Storage Cooling System Upgrade		No
Institute of Forensic Medicine	IFM-7	Steam Traps and Misc Upgrades	77	No
Institute of Forensio Medicine	IFM-8	Receiving Dook Infrared Heaters	77	No
Hektoen Building	HB-1	Lighting Upgrades		No
Hektoen Building	HB-9	Controls and AHU Upgrades	79	Yes
Hektoen Building	HB-13	Domestic Water Booster VSD	80	Yes
Hektoen Building	HB-16	Dual Duct VAV and Mixed Air Conversion & New AHUs	80	Yes
Hektoen Building	HB-18	Steam Traps and Misc Upgrades	82	Yes
Ruth Rothstein Core Center	RRCC-1	Lighting Upgrades		Yes
Ruth Rothstein Core Center	RRCC-2	Controls Upgrade & HE Filters	83	No
Stroger Campus Wide	SCW-6	LEED-EB & Energy Star Benchmarking	84	No
Stroger Campus Wide	SCW-14	Utility Meters for Administration and Fantus	85	No
Stroger Campus Wide	SCW-15	Sustainable Services		Yes

Stroger Hospital

<u>SH-14</u> – In the "Recommended Solution" section on pages 61 and 62 of 397, VAV box controls strategy was modified to operate 24 hours per day (including occupied and unoccupied hours).

<u>SH-20</u> – Remove the autoclave from the scope of work in the "Recommended Solution" section on page 64 of 397.

Power House

<u>SH-13:</u> Replace the existing "Recommended Solution" section on page 69 of 397 with the following.

It is our recommendation that new control strategies be implemented for the existing chilled water system that will increase the overall efficiency of the chilled water plant by increasing the CHW temperature differential, thereby reducing equipment runtime.

 Replace two existing chillers with new high efficiency chillers with variable speed drive (VSD) controls for low load operation. These chillers can operate down to 50°F condenser water temperature

- Replace flow limiting valves with two position control valves for each of the 6 chillers
- Installed two position control valves on two of the cooling towers
- Re-commission the controls and programming for the modulating valve at each bridge. Refurbish the three (3) modulating valves.
- Control / Instrumentation
 - ✓ Install VSDs on each primary CHW pump and each CDW pump total of 12
 - ✓ Install DP transmitters across the condenser and evaporator of each chiller total of 12
 - ✓ Replace DP transmitters for three (3) chilled water bridges (West, Central, and East)
 - ✓ Replace DP transmitters in three (3) secondary zones (West, Central, and East).
 - ✓ Install Control Engine Optimization System (CEO) and establish communications with Metasys via BACnet IP
 - ✓ Implement adaptive control strategies including algorithms for the following:
 - Sequence chillers to assure most efficient loading
 - o Reset CHW temperature
 - Regulate cooling tower and chiller operation to optimize CDW temperature
 - Reprogram cooling tower fan sequencing for winter operation for cooling tower (CT-1)
 - o Coordination/control of all CHW pumps to maximize overall efficiency
- Replace three way chilled water control valves on four (4) air-handling units in new Fantus Clinic mechanical room with two way valves. Install VSD and a differential transmitter on CHWPs and modify the bridge piping to eliminate bypass flow of CHW.
- 5th Floor AHU Upgrades
 - Provide balancing for each CHW cooling coil to meet design requirements
 - Remove the flow limiter from each of the coils
 - Remove strainer mesh and replace with coarse mesh
- Install Isolation valve on the West CHW Bridge
- Replace the 3-way CHW control valve on 9 packaged unitary air conditioning (AC) units with a 2-way control valve and modify piping to eliminate any CHW bypass flow
- Remove the flow limiter from the West Chilled Water Bridge and install two (2) shutoff valves
- Install an isolation valve on the secondary loop serving the CHW radiant loop to close the CHW bypass during non-cooling periods
- Install a modulating control valve in the CHW loop serving AHU-39 (powerhouse) to modulate flow as required to maintain 45 Degree F CHWS-T to the AHU. This valve shall close during periods of non-cooling.
- Provide testing, balancing, commissioning, start-up and onsite training for the new system

Institute of Forensic Medicine

IFM-2:

- Insert missing heading in the middle of page 72 of 397 (before "Existing Conditions"). The heading should read IFM-2: Chiller Replacement.
- The contract document refers to demolishing 1 chiller and installing 1 new chiller. In actuality two (2) low pressure absorption chillers were demolished and two (2) 280 ton multi-stack electric chillers were installed.

<u>IFM-3:</u> Replace the existing "Recommended Solution" on page 72 of 397 with the following.

The recommendation is to remove one of the boilers and install two smaller boilers of higher efficiency. The existing boilers are to be removed. New DDC controls will be installed to operate the two new boilers and feedwater system efficiently to serve the heating load. The scope of work is as follows:

- Demolish and remove two (2) low pressure steam boilers from site
- Demolish and remove the existing gas-fired heat recovery unit, associated exhaust fans and ductwork, electric power and natural gas piping from site
- · Furnish and install two new boilers on new concrete pads
 - o Each boiler will be rated at 3,348 MBh output
 - o Provide required steam, condensate, flue and gas piping with required accessories and support
- Connect electrical power, controls, feedwater connections, and steam header modifications to allow automated operation of the boiler system
- Connect the new boiler system and feedwater equipment to the new BAS for monitoring and control
- Upgrade the existing boiler feedwater tank including new pump and controls and replace the trim.
- Provide startup, commissioning and balancing for each component in the system

<u>IFM-4:</u> In the existing "Recommended Solution" section on page 73 of 397 based on site conditions, two (2) 285 MBH input hot water heaters were installed in lieu of the 120 MBH input ones.

Hektoen Building

HB-9: Insert the following scope of work after the words "...for future expansion of the DDC system" in the "Recommended Solution" section of the ECM write-up on page 78 of 397. Demolish and remove all of the existing pneumatic controls and replace with DDC

controllers. Provide a new DDC BAS for the building.

- New Control Valves: Provide new electric / DDC control valves for all coil banks to remain. This includes coils in AHUs and coils in downstream, hot deck / cold deck coil banks.
 - ✓ Furnish all new electric / DDC control valves
 - ✓ Steam Pre-Heat: (6) control valve assemblies required, each 1/3 2/3
 - ✓ Pre-Cool CHW: (5) control valve assemblies required
 - ✓ Cold Deck CHW: (8) control valve assemblies required
 - ✓ Hot Deck Steam: (8) control valve assemblies required, each 1/3 2/3

- OAI Dampers: Replace OAI dampers in all (9) AHUs. Provide new DDC actuators and controls.
- Replace Steam Pre-Heat Coils in AHUs: S-3 (2 of 4 coils), S-6 (3 of 4 coils) and S-8 (4 of 4 coils). Replace Steam Reheat Coils in AHUs: S-2 (1 of 1 coils), S-3 (2 of 2 coils), S-6 (2 of 2 coils) and S-7 (2 of 2 coils),
 - ✓ Disconnect steam and condensate piping, break apart AHU housing / casing, and remove the steam heat coil bank
 - ✓ Furnish and install new Steam Heat coils. After new coil bank is installed, repair / patch the housing by installing patch pieces to close all openings. Reconnect all steam and condensate piping, provide new steam traps
- Remove Steam Heat Coils in five of the AHUs: S3, S6, S7, and S8.
 - ✓ Disconnect steam and condensate piping, break apart AHU housing / casing, and remove the steam heat coil bank
 - ✓ After steam heat coil bank is removed, repair/patch housing by installing patch
 pieces to close all openings
- Replace the Pre-Cooling chilled water coils for AHUs: S-6 (2 of 4 coils), S-8 (1 of 4 coils). Replace Final chilled water cooling coils for AHUs: S-3 (2 of 4 coils), S-7 (1 of 4 coils), S-8 (2 of 4 coils)
 - ✓ Disconnect chilled water supply and return piping, break apart AHU housing / casing, and remove the cooling coil bank
 - ✓ Furnish and install new chilled water cooling coils. After new coil bank is installed, repair / patch the housing by installing patch pieces to close all openings. Reconnect all chilled water supply and return piping
- Perform a thorough inspection check of all (9) AHUs and matching return/exhaust fans. Clean heating and cooling coils, provide new air filters, check all electrical connections, provide new belts, grease bearings, clean cooling coil drain pan, clean dampers, provide minor repairs (if needed) to doors and latches.

<u>HB-13:</u> In the existing "Recommended Solution" section on page 79 of 397 based on site conditions, pumps were sized for 20 gpm and 150 feet head.

HB-16: Replace the existing "**Recommended Solution**" section on page 80 of 397 with the following.

The intent of this energy retrofit is to replace existing bag type pre-filters in all nine (9) units with high efficiency electronic filters. The new filters will reduce pressure drop across the system and lower fan energy consumption.

We also propose to convert units S-2, S-3, S-6, S-7, and S-8 that are currently dual duct constant volume units to variable air volume dual duct (DDVAV) units. The dual duct constant volume boxes will be replaced with new dual duct VAV boxes. The three units with 100% OA (S-3, S-6, and S-7) will also be retrofitted with return air provision. The corresponding general exhaust fans will be demolished and replaced with new return/exhaust fans. New return air ductwork will be installed from return/exhaust fan discharge to AHU intake plenum.

The existing supply and return motors for the five dual duct constant volume AHUs will be replaced with inverter duty motors and retrofitted with variable speed drives (VSDs) to reduce fan speeds based on occupancy loads. The scope of work for this recommendation includes the following:

Replace original dual duct (DD) boxes with DD VAV boxes

- ✓ There are approximately 203 dual duct boxes at the facility. 35 of these boxes have been recently replaced with new DD boxes and shall remain in place
- ✓ Demolish and remove 168 DD VAV boxes and install new DD VAV boxes.
- Convert five (5) units (S-2, S-3, S-6, S-7, and S-8) from constant volume distribution to variable volume airflow operation
 - ✓ Furnish and install a new CHW cooling coil. New AHU controls shall be provided for MAT, DAT, coil freeze stat, etc.
- Convert three (3) units (S-3, S-4, S-6, and S-7) from 100% OA units to mixed air units,
 - ✓ Demolish and remove three (3) existing general exhaust fans (EF-2, EF-6, and EF-7)
 - ✓ Furnish and install new return/exhaust fans. The new fans shall be inline fans (centrifugal or axial), sized to the specific duty of the modified VAV AHU
 - ✓ Install new return air ductwork from new return/exhaust fan discharge to AHU intake plenum
 - Existing exhaust air dampers shall remain in place and be reused with the new configuration. Clean dampers, check and adjust linkages and jack shafts to make sure dampers operate freely and properly.
 - ✓ Provide new return air dampers, electronic actuators and controls
- Provide new motors and VSDs on supply and return/exhaust fans for all five (5) air-handling units (S-2, S-3, S-6, S-7, and S-8)
- Provide new electronic filters for the AHUs
 - ✓ Remove existing pre-filters from units S-1 thru S-9.
 - Furnish and install new Dynamic V8 filters, with face areas sized to accommodate available internal space of air handler cross section
 - ✓ Provide complete installation of filter assemblies, field power wiring, controls hardware and software, etc.

HB-18: The conversion to low pressure steam was removed from the scope of work in the "Recommended Solution" section on pages 81 and 82 of 397.

Ruth Rothstein Core Center

RRCC-1: The scope was changed at owner request to clarify changes, add the following table to the "**Recommended Solutions**" section on page 82 of 397:

Room	Existing Oty	Proposed Oty	Exist Wattage	ECM Definition	Proposed
Parking Lot	7	7	288	Replace - 250W Metal Halide, (1) 250W famp, Magnetic ballast, POLE SHOEBOX, W/ 116W LED, (1) Pole Heads	Wattage
Parking Lot	2	2	91	Replace - 70W Metal Halide, (1) 70W lamp, Magnetic ballast, WALLPACK, w/ 37W LED, (1) 97W	116
Parking Lot	5	5	288	Replace - 250W Metal Halide, (1) 250W Jame, Magnetic ballast, WALLPACK, wt 137W LED, (1) 18704	137
1-201	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFEH - No Measure Recommended	13/
			_	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Moseuro	117
1-202	2	2	117	Recommended	117
1-202A 1-200	2	2	72	40W Compact Fluorescent, long twin, (2) 40W (amps, 2X2 TROFFER - No Measure Recommended	72
1-203	7	7	72	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
1-205	+	<u>-</u>	12	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended 54W Fluorescent (2) 45.8" T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	72
1-205	2	2	117	несопилансес	117
Hall between 248-267	7	7	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Baliast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	72
1-267	2	2	- 89	124 , 1-0 lamps, instant Start Ballast, RCO (BF< 0.85)	
1-266	2	2	89	Retrofit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
1-200			69	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
1-265	2	. 2	89	124°, 1-8 lamps, instant Start Ballast, RLO (BFc 0.85)	40
1-264	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24°, T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	
				Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 jamos, Instant Start Ballast, 2X2 TROFFER, W. 12W Fluorescent, (3)	40
1-263	2	2	89	24", T-8 lamps, instant Start Ballast, RLO (BF< 0.85) Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 43", T-8 (amps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
1-261	2	2	89	124 , 1-0 lamps, instant start dallast, HLO IBFS 0.861	40
1-260	. 2	2	89	Retroff with a Kr 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, Rt.O (BF< 0.85)	1 40
			33	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Baltast, HLO (.95 < BF < 1.1), 2X4 THO FFER - No Measure	40
1-255	5	5	117	Hecommended	117
1-256	8	8	89	Retrollt with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, Rt.O (6F< 0.85)	40
1-254	1.	. 1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	40 72
1-253	1	1	117	54W Fluorescent (2) 45.8" 7-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	- '-
			1 117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
1-252	1	1	117	Hecontrienced	117
1-251	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
1-250	_		345	S4W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
1-230	1	1	117	Recommended 64W Fluorescent (2) 45.8 T-5 HO lamps, (1) PRS Electronic Ballast, FLO (.96 < 8F < 1.1), 2X4 TROFFER - No Measure	117
1-248	1	1	117	Hecommended	117
1-238	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-236	2	2	117	54W Fluorescent (2) 45.8" T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
1-237			447	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLC (.95 < BF < 1.1), 2X4 THOFFER - No Measure	117
1-23/	1	1	117	Recommended 54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
1-235	1	1	117	Hecominanced	117
1-242	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-240	. 1	1	72	40W Compact Fluorescent, long twin, (2) 40W (amps, 2X2 TROFFER - No Measure Recommended 54W Fluorescent (2) 45.8" T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	72
1-244	2	2	117	Recommended	117
1-246A	2	–	117	54W Fluorescent (2) 45.8° T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	-:''-
1-240A		2	117	54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure	117
1-246	5	5	117	[Heconninerged	117
1-247	2	ż	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 45° T-B tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/25W Fluorescent, (3) 48° T-8 @ 25W tamps, Instant Start Baltast, RLO (BF < 0.85)	
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" 1-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95) 2X4 TROFFER W/	57
1-245	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Balfast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
1-243	2	2	85	[25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Baltast, RLO (BF < 0.85)	57
1-241	2	2	85	Re-tamp Re-ballast - 32W Fluorescent, (3) 48°T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48°T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85)	
			- 55	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	57
1-234	1	. 1	117	Recommended	117
1-233	1	1	117	54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
1-232	Ż ·	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
i-231	0	0	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 46° T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48° T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
	-	-	03	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	57
L-231	1	1	117	recommended	117
I-200A	6.	6	117	64W Fluorescent (2) 45.8" T-5 FlO lamps, (1) PRS Electronic Ballast, FLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
				Retrollf with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	117
ast lobby ast lobby	7	7	89 453	24", 1-8 lamps, instant Start Ballast, RLO (BF< 0.85)	40
ast lobby	3	3	453 51	400W Metal Halide, (1) 400W lamp, Magnetic ballast, FLOOD - No Measure Recommended 26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	453
			—	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (6.85 - RF - 0.95), 2VA TOOCEER, MI	51
-211	1	1	85	[25W Fluorescent, (3) 48" 1-8 @ 25W lamps, Instant Start Ballast, Rt O (RF < 0.85)	57
			1	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/	

Room	Existing Oty	Proposed Qty	Exist Wattage	ECM Definition	Proposed
1-213	1	1	1	Re-lamp Re-ballast - 92W Fluorescent, (3) 48" 1-8 lamps, instant Start Hallast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, instant Start Ballast, RLO (BF < 0.85)	Wattage
1-214				Re-lamp Re-ballast - 32W Fluorescent, (3) 48° T-8 lamps, Instant Start Ballast, NLO (0.85 < BE < 0.95), 2XA TROPETED NO.	57
	1	1	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) 56W Fluorescent (2) 45.8" T-5 HO tamps, (1) PRS Electronic Ballast, RLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	57
1-215 Hall between 220-223B	1	1		Recommended	117
Hall Between 220-2258	11	. 11	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended Re-lamp He-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.65 < 8F < 0.95), 2X4 TROFFER, w	72
1-226	2	. 2	85	20W Fluctescent, (3) 46" 1-8 (@ 25W lamps, Instant Start Ballast BLO (BE > 0.85)	57
1-224	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 46" T-8 lamps, instant Start Ballast, NLO (0.65 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
1-223A	4	4		Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85)	57
1-222A				Re-lamp Re-ballast - S2W Fluorescent, (3) 48" I-8 lamps, Instant Start Ballast (N) O (0.85 - BE - 0.05) 294 TOOL	57
1-2228	3	3	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Retroot with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	57
1-222	1	1	89	24", T-8 lamps, Instant Stant Ballast, PLO (BF< 0.85) Retroit with a Kit81W Fluorescent, (3) U-Tubé, 1-8 lamps, Instant Stant Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Stant Ballast, PLO	40
1-221	1	1	89	24 , 1-6 lamps, instant Start Ballast, HLO (BF < 0.85)	40
1-225	2	2	117	54W Fluorescent (2) 45.8° T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
1-227	1		147	SAW Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballasi, HLO (.95 < BF < 1.1), 2X4 TAOFFER - No Measure Recommended	117
		1		Re-lamp Re-ballast - 32W Fluorescent, (3) 48° 1-8 lamps, Instant Start Ballast, NLO (0.85 × RE < 0.95), 284 TD/SEEED, DV	117
1-228	. 4	4	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Retroit with a Kit - 81W Fluorescent, (3) U-Yube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (8)	57
1-228A	1	1	89	≥4, 1-6 lamps, instant Start Ballast, RLO (BF< 0.85)	40
1-229	. 1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFEH, W 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
1-270	1			Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 4" INDUSTRIAL W/	57
	1	1	- 58	25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85) Re-lamp Re-ballast, 92W Fluorescent, (3) 48" T-8 famps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	38
-280	9	9	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Beliast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/	57
1-291	1	1	58	26W Fittorescent (2) 48° 18 @ 25W lamps, Instant Start Ballast, BLO (RE on 85)	38
-292	3	3	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, W/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
-297	2.	. 2	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48°, 1-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4° INDUSTRIAL W/	38
				25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85) Re-lamp Fe ballast - 92W Fluorescent, (2) 48", T-8 famps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, W/	38
-298	4	4	58	25W Fluorescent (2) 48" T9 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85) Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, W/	38
-298A	3	3	58	25W Fillorescent (2) 48° 18 @ 25W lamps, Instant Start Ballast, RI O (B.F., n.85)	38
-294	. 1	1	58	He-lamp Ne-ballast - 32W Fluorescent, (2) 48", T-8 lamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, instant Start Ballast, RLO (BF< 0.85)	
-293	1	1	I :	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, W/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	38
				Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), & Reputstruct	38
-295	2	2		20W Fluorescent (2) 46° 16 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85) Re-lamp Re-ballast - 32W Fluorescent, (2) 48°, 7-9 lamps, Instant Start Ballast, NLO (6 RE - 25°, 6 0.55)	38
levator motor 296	1	1	58	25W Fillorescent (2) 48" 18 @ 25W lamps, Instant Start Ballast, Rt O (BEz 0.95)	38
-270	. 1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF-c 0.85)	38
-271	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 4" INDUSTRIAL, W/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (6F< 0.85)	
st lobby	34	34	51	25W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	38 51
st lobby	3	3	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
st lobby	9	9	117	54W Fluorescent (2) 45.8° T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
-103	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommanded	117 72
-106	4	4	117	54W Fluorescent (2) 45.6" T-5 HO tamps, (1) PRS Electronic Ballast, FLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
-104	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
-102	3	3	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
-110	1	1	117	54W Fluorescent (2) 45.8° 7-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure Recommended	117
-111	1	1	59	Retroit with a Kit - 32W Fluorescent, (2) U-Tube, 1-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (2) 24*, 1-8 lamps, Instant Start Ballast, VHLO (BF > 1.1)	
112		*		54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 THOFFER - No Measure	41
-112	1	1	117	Recommended Report with a Kir - 31W Fluorescent, (3) U-Tube, T-B lamps, Instant Start Ballast, 2X2 TROFFER, will 17W Fluorescent, (3)	117.
-113	_1	1	89	24, 1-8 lamps, instant Start Hallast, RLO (EF-c 0.85)	40
-114	2	2	89	Rebolit With a Kit- 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Hallast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
415	2	2	85	He-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
116				Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFFR, W 17W Fluorescent, (3)	57
	2	. 2 .		24 ; 1-8 lamps, instant stant Ballast, BLO (BF< 0.85) Retrofit with a Kit - 31W-Fluorescent, (3) U-Tube, 1-8 lamps, instant Start Ballast, 2X2 TROFFER, w/ 17W Businescent, (6)	40
417	2	2		24, 1-8 lamps, instant Start Ballast, RLO (BF< 0.85)	40
7.11	2	. 2		8W EXIT 15 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended Retroft with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3)	12
117A	3	3	89	124 , 1-8 lamps, instant Start Hallast, RLO (AFE) (185)	40
130	g	9	85	Re-lamp Ne-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85)	57
· 				Retrofit with a Kit - St W Fluorescent, (3) U-Tube, T-8 jamps, Instant Start Ballast, PX2 TROFFER, w/ 17W Fluorescent, (3)	
ALL	5	5	89	24", T-8 lamps, instant Start Ballast, RLO (BF-c 0.85)	40

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed
1-131	1	1	85	He-lamb No ballast - 32W Fluorescent, (3) 48" T-8 temps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W/25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85)	Wattage
1-132	1	1	85	Re-tamp Re-ballast - 92W Pluorescent, (3) 48" T-8 tamps, instant start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W Fluorescent, (3) 68" T-8 @ 25W Fluorescent, (4) 68" < 0.85)	57
1-133				Retrofit with a Kit - \$1W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2x2 TROFFER, w/ 17W Fluorescent, (3)	57
	1	1	89	Re-lamp Re-ballast - 32W Flucrescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TBOLEGO	40
1-135	. 3	3	85	25W Fluorescent, (3) 46" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
1-136	1	1	85	IZDW Flourescent, (3) 46 ° L-8 (4) 25W IAMDS, Instant Start Ballast, RLO (RE < 0.85)	57
1-137	6.	6	85	Re-lamp Ne-ballast - 32W Fluorescent, (3) 48° T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48° T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	T
1-137	2	2	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	57 51
South Staircase	18	18	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", 1-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" WRAP, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
Elevators	0	0	50	Relamp - 50W Incandescent, (1) 50WPAR20 lamp, RECESSED CAN, w/ 14W LED screw-in PAR 20 narrow food	
NE Staircase	16	16	58	Re-tamp Re-ballast - 32W Fluorescent, (2) 48°, T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" WPAP, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (8F< 0.85)	14
				Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TAOFFER, w/ 17W Fluorescent, (3)	38
HALL between 110-116	3	3	89	24 , 1-6 lamps, instant Start Ballast, RLO (BF< 0,85) Re-lamp Re-ballast - 32W Fluorescent, (2) 48", 1-8 lamps, Instant Start Ballast, NLO (0.85 < RF < 0.95) 4" Kiro is Terrary	40
Hall	- 6	6	58	25W Fitolescent (2) 46 Te @ 25W lamps, Instant Staft Ballast, RLO (BF< 0.85)	38
Hall	3	3	12	BW EXIT 15 Fluorescent, (1) 6W lamp, EXIT SIGN - No Measure Recommended Refrom with a Kit - STW Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, wt 17W Fluorescent, (3)	12
2-202	1	1	89	24', T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Hetrori with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFEH, w 17W Fluorescent, (3)	40
2-204	1	1	89	[24", 1-8 lamps, instant start ballast, RLO (BF< 0.85)	40
2-205	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
2-206	1	1	117	56W Fluorescent (2) 45.8° 1-5 HO Jamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Méasure	117
				54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
2-207	1	. 1	117	Recommended 64W Fluorascant (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
2-208	1	1	117	Recommended Recomm	117
2-269	2	2	89	124 , 1-8 tamps, instant Stan Barast, RLO (BF< 0.85)	40
2-270	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
2-267	3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 famps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/25W Fluorescent, (3) 48" T-8 @ 25W Jamps, Instant Start Ballast, RLO (BF < 0.85)	117
2 200				Retrofft with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent (3)	57
2-268	2	2	89	24", T-8 lemps, Instant Start Ballast, RLO (BF< 0.85) Retrofit with a Kit- 31W Fluorescent, (3) U-Tube, T-8 lemps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
2-266	1	1	89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Refront with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
2-262	1	1	89	124°, t-b lamps, instant Start Hallast, RLO (BF< 0.85)	40
2-261	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-263	2	2	85	Re-lamp He-ballast - 32W Fluorescent, (3) 48° T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48° T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
2-264	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48°T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TRÖFFER, w/25W Fluorescent, (3) 48°T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, instant Start Saliast, NLO (0.85 < BF < 0.95), 2XA TROFFER W	57
2-249	1	1	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w	57
2-247	1	1	85	25W Filtorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-248 2-246	1	1	51 51	25W Compact Fluorescent, twin, (2) 25W lamps, RECESSED CAN - No Measure Recommended 26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
				Re-lamp Re-ballast - 92W Fluorescent, (9) 48° T-9 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TBO FFFF W/	51
2-251	1	1	85	25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85) Belamp Re-ballast - 32W Fluorescent, (3) 48" T-8 tamps, Instant Start Ballast, NLO (0.65 < BF < 0.95), 2X4 TROFFER, W	57
2-244	4	4	85	26W Flucrescent, (3) 48" 1-8 @ 25W lamps, Instant Start Ballast, PLO (BF < 0.85)	. 57
2-241	1	1	51 72	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended 40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	51
2-240	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	72 51
2-239	2	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-231	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-243	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2-245	. 1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, 1-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
Hall between 244-251 Hall between 244-251	3	3	72	40W Compact Fluorescent, long Win, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
Hali between 244-251 East wing hallway 202-261	4	4	12	8W EXIT T6 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended 8W EXIT T6 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
2-232A	6	6	72	40W Compact Fluorescent, Iong twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	12 72
2-23 2 A	2	2	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-2328&C 2-2326&C	. 9	9 .	72 = i	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2ND FLOOR LOBBY	- 7 5	7	51 3	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended 3W EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	51
2ND FLOOR LOBBY	20	20	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	3 51
2ND FLOOR LOBBY	18	18	51	26W Compact Fluorescent, twin, (2) 26W tamps, RECESSED CAN - No Measure Recommended	51
Lobby	45	45	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed
2-100	2	2	51	25W Compact Flucrescent, twin, (2) 25W lamps, RECESSED CAN - No Measure Recommended	Wattage
2-102	2	2	89	Retroft with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (8F-c 0.85)	51
				Hetrofit with a Kif - STW Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent (5)	40
2-104	2	2	89	24', T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Retroft with a Kit - 3' W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3)	40
2-106	2	. 2	89	124 , 1-8 (2010)S. HISIANI STAN BAHAST. H.CO (181-2 (1.85)	40
2-107	2	2	85	He-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0,85 < BF < 0.95), 2X4 THOFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W (amps, Instant Start Ballast, RLO (BF < 0.85)	
2-108	2	2	89	Retroff with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, PLO (BF-c 0.85)	57
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, instant Start Ballast, NLO (0.85 c BF < 0.95), 2X4 TDOSEED, in	40
2-109	1	11	85	25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85) Retroit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 tamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3)	57
2-110	2	2	89	124, 1-6 tamps, instant start Ballast, RLO (BF-c 0.85)	40
2-111	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 46"T-8 lamps, Instant Start Ballast, NLO (0.85 < 6F < 0.96), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48"T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
2-112	2	2	89	Retroit with a Kif-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, Rt.O (BF< 0.85)	57
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48° T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFEED us	40
2-113	1	1	85	25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, Rt.O (BF < 0.85) Retroit with a Kit- 31W Fluorescent, (3) U-Tube, T-8 tamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	57
2-114	2	2	89	124, 1-8 lamps, instant Start Ballast, RLO (8F< 0.85)	40
2-121	2	2	85	Re-tamp Re-ballast - 92W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 26W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-120	9	9	89	Retroff with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, wt 17W Fluorescent, (3) 24°, T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	
· · · · · ·				Re-tamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TBALLED W/	40
2-123	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W (amps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 (amps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
2-122	2	2	85	25W Fluorescent, (3) 48"T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48"T-8 tamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
2-124	2	2 .	85	(25W Fluorescent, (3) 46" 1-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-125	2	- 2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85)	
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER W/	57
2-126	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-baltast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
2-127	2	2	85	25W Fluorescent, (3) 48° T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.95) Re-lamp Re-ballast - 32W Fluorescent, (3) 48° T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
2-130	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamos, Instant Start Ballast, RLO (BF < 0.85)	57
2-131	6	6	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	
2-135	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (8F< 0.85)	40
	1		69	Retroft with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Sfart Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
2-136	1	1	89	24", T-B lamps, Instant Start Ballast, RLO (BF< 0.85) Refront with a Kit - 31W Fluorescent, (3) U-Tube, T-S lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3)	40
2-137	1	7	89	24", 1-8 tamps, Instant Start Ballast, RLO (BF< 0.85)	40
West Wing Hallway 104-137	15	15	89	Retroff with a Kit - 31W Fluorescent, (3) U-Tube, T-9 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24°, T-8 lamps, Instant Start Ballast, RLO (BF _{<} 0.85)	40
					40
West Wing Hallway 104-137	7	7	3	3W EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	- 3
West Wing Hallway 104-137	8	8	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
East wing hallway 202-261	11.	11	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tribe, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
2-1.40	1	1	85	Re-lamp Re-ballast - 92W Fluorescent, (3) 48° T-6 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48° T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.95)	
				Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL W/	57
2-233	2	2	58	25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFEH, W	38
3-130	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85)	57
3-132	2	2	117	54W Fluorescent (2) 45.8" 7-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
3-131	14	1.4	89	Retroit with a Kit - 31W Fluorescent, (8) U-Tube, T-8 larrups, instant Staff Ballast, 2X2 TROFFER, W 17W Fluorescent, (3) 24", T-8 (amps, Instant Start Ballast, RLO (BF-c 0.85)	
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-9 lamps, Instant Start Ballast, NLO (0.86 < BF < 0.95), 2X4 TROFFER w/	40
3-127	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Fle-ballast - 22W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w	57
3-126	2	2	85	25W Fluoriescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
3-125	2	2	85	126W Fluorescent, (3) 46" T-8 @ 25W lamps, Instant Start Ballast, RLO (RF < 0.85)	57
3-124	2	2	85	Re-tamp Re-ballast - 32W Fluorescent, (3) 48" T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85)	
				Re-lamp Re-ballast - 92W Fluorescant, (3) 48° T-8 lamps, instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFFF W	57
3-123	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/	57
3-122	2	.2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w	57
3-121	2	2	85	126W Fittorescent, (3) 48" T-8 @ 26W lamps, Instant Start Ballast, RLO (BE < 0.85)	57
3-120	. 3	- 3	89	Retrolit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 larups, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 larups, Instant Start Ballast, RLO (BF< 0.85)	
			i -	Retrofit with a Kit - 91W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3)	40
3-114	. 2	2	89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) He-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w	40
,				IONAL THROUGH AND THE PROPERTY OF THE PROPERTY	i I
3-113	2	2	85	25W Fluorescent, (3) 48" T-B @ 25W lamps, instant Start Ballast, RLO (BF < 0.85) Refront with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3)	57

Room	Existing Oty	Proposed Qty	Exist Wattage	ECM Definition	Proposed
3-111	2	2	1	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	Wattage
		l		Retrofit with a Kit- 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent (9)	57
3-110	2	2	· · · · · · · · · · · · · · · · · · ·	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFED 197	40
3-109	1	1	85	25W Fluorescent, (3) 48"T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Retroit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3)	57
3-108	2	2	89	24; 1-6 ratips, instant Start Balast, HLO (BF< 0.85)	40
3-107	2	2	117	54W Fluorescent (2) 45.8" T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.85 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
3-106	2	2	89	Rebont with a Not - 31W Fluorescent, (3) U-Tube, 1-8 lamps, Instant Start Ballast, 2X2 THOFFER, vi/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (8F< 0.85)	117
		·		Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFFR, W 17W Fluorescent (3)	40
3-104	2	2	· · · · · · ·	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Retroff with a Kit-31W Puorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
3-137	1	1	. 89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Rétroit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFEH, w/ 17W Fluorescent, (3)	40
3-136	1	1	89	124°, 1-6 lamps, instant start Ballast, RLO (BF< 0.85)	40
3-135	. 1	1	89	Retrofit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24', T-8 lamps, Instant Start Ballast, RLO (BF-, 0.85)	
West Wing Hallway 104-137	11	11	89	Retrott with a Kit- 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
West work harring to - 237	- 11		· · · · · ·	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
West Wing Hallway 104-137	5	5	89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
West Wing Hallway 104-137	6	6	3	3W EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	3
3-102	1	1	85	Re-tamp Re-ballast - 32W Fluorescent, (3) 48°T-6 tamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48°T-8 @ 25W lamps, instant Start Ballast, RLO (BF < 0.85)	
3-100	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	57 72
3RD FLOOR LOBBY	5	5	3	3W EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	3
3RD FLOOR LOBBY	20	20	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
3RD FLOOR LOBBY	18	18	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
3-252	2	2	5B	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF-c 0.95)	
3-254	0	o	85	He-lamp Re-ballast - 92W Fluorescent, (3) 48" 1-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2XZ TROEFFR W/	38
				25W Fluorescent, (3) 48"T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re lamp Re-ballast - 32W Fluorescent, (3) 48"T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w	57
3-255	0	0	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballest, RLO (BF < 0.85) 54W Fluorescent (2) 45.8" T-5 RO tamps, (1) PRS Electronic Ballest, RLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	57
3-250	2	2	117	Recommended	117
3-235	1	l i	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 46"T-6 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48"T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
3-235	13	13	89	Retrofit with a Kit 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF-, 0.85)	57
3-235	2	2	12	9W EXIT Compact Fluorescent, (1) 9W lattip, EXIT SIGN - No Measure Recommended	40
3-236	2	2	117	54W Fillorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, RLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	12
			111/	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
3-234	2	2	117	Recommended 54W Fluorescent (2) 45.8" T-6 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure	117
3-237	2	2	117	Hecommended	117
3-232	2	2	117	54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PRS Electronic Balast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
3-231	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Sallast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
3-245	1	1	72	40W Compact Fluorescent, long lwin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	117
3-244	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
2 242		İ .	 	Re-lamp Re-ballasi - 32W Fluorescent, (2) 48", T-6 lamps, Instant Start Ballast, NI O (0.85 < BF < 0.95), 4" INDESCRIPTION OF	72
3-243	3	1	5B	25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85) Re-lamp Re-ballast - 92W Fluorescent, (3) 46" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	38
3-242	1	1	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) 64W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, RLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	- 57
3-223	1	. 1	117	[Recommended	117
3-222	2	1	117	54W Fluorescent (2) 45.8" T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
			 	64W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
3-221	2	2	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Balliast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Moasure	117
3-220	3	. 3	117	Recommended	117
East Wing Hall 202-254	17	1.7	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
3-213	1	1	51	26W Compact Fluorescent, twin, (2) 26W tamps, RECESSED CAN - No Measure Recommended 64W Fluorescent (2) 45.8" T-5 RO tamps, (1) PRS Electronic Ballast, HLO (35 < BF < 1.1), 2X4 TROFFER - No Measure	51
3-213	1	1	117	Recommended	117
3-212	. 2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (9) 24*, T-8 lamps, Instant Start Ballast, RLO (BF- 0.85)	
3-211				54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER- No Measure	40
	. 2	2	117	Retrott with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballest, 2X2 TROFFER, W 17W Fluorescent, (3)	117
3-210	2	2	89	124°, T-8 lamps, Instant Start Ballast, RLO (BF- 0.85)	40
3-208	2	2	89	Retrott with a Kit - 31 W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RI.O (BF< 0.85)	40
3-207	3	3	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRIS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 THOFFER - No Measure Recommended	
				Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	117
3-207A	1	1	89	[24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Retroft with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3)	40
3-206	2	2	89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40

Room	Existing Oty	Proposed Oty	Exist Wattage	ECM Definition	Proposet
3-204	2	2	89	Helrofit with a Krt. 31W Fluorescent, (3) U-Tube, T-B lamps, Instant Start Ballest, 2X2 TROFFEH, W 17W Fluorescent, (3) 24*, T-B lamps, Instant Start Ballast, RLO (BF-c 0.85)	Wattage
3-202	1	1	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFEH, w/ 17W Fluorescent, (3) 24*, T-8 lamps, instant Start Ballast, RLO (BF-c 0.85)	40
East Lobby	2	. 2	12	BW EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	40
East Lobby	27	27	51	25W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	12
West Lobby	1	1	72	40W Compact Fluorescent, long Win, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	51 72
West Lobby West Lobby	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
West Lobby	13	13	12 51	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended 26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	12
Atrium	9	9	183	150W Metal Halide, (1) 150W lamp, Magnetic ballast, FLOOD - No Measure Recommended	51
4-203	1	1	72	40W Compact Fluorescent, long Win, (2) 40W larges, 2X2 TROFFER - No Measure Recommended	183 72
4-220	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (,95 < BF < 1.1), 2X4 TROFFER - No Méasure Recommended	
4-221	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Sallast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-219	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
				54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Mossiro	117
4-222	2	2	117	Recommended 54W Fluorescent (2) 45.8" T-5 HC lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-223	1	1	117	[neconated]	117
4-224	1	1	117	54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Méasure Recommended	117
4-225	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2XM TROFFER - No Measure Recommended	
4-226	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, RLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
				54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Marcura	117
4-246	1	1	117	Recommanded 54W Fluorescent (2) 45.8" T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-245	1	1	117	Heconaliences	117
4-244	2	2	117	54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-251	. 3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < 6F < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (6F < 0.85)	
4-242	2	2	117	54W Fluorescent (2) 45.8° 7-5 HO (amps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	57
4-242	1	1	72	40W Compact Fluorescent, long win, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	117
4-252	1	1		54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	72
	•		117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Massiro	117
4-253	9	9	117	Recommended 54W Pluorescent (2) 45,8" T-5 HO lamps, (1) PRS Electronic Ballast, RLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure	117
4-254	1	1	117	Heconalleraed	117
4-255	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-238	1	ı	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
4-236				54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Moastiza	117
· · · · · · · · · · · · · · · · · · ·	1	1	117	Recommended 54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 THOFFER - No Measure	117
4-235	2	2	117	recommended	117
4-234	1	1	117	54W Fluciescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-232	2	2	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, W/25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	
4-233	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < EF < 1.1), 2X4 TROFFER - No Measure Recommended	38
	. 4		117	54W Fluorescent (2) 45.8* T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-231	1	1	117	Recommended 54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-230	1	1	117	Hecommended	117
4-240 4-241	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
+-241	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended 17W Fluorescent, (3) 24", 1-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X2 TROFFER - No Measure	72
1-101	1	1	47	Herotilliendec	47
1-102	11	1	100	100W Incandescent, (1) 100W Iamp, FLOOD - No Measure Recommended Retamp - 60W Incandescent, (1) 60W Iamp, KEYLESS, w/ 13W Compact Fluorescent, (1) 13W screw-in lamp/base w/	100
1-104	1	1	60	permanent disk installed, any build snape	13
1-110 1-110	10	10	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended 100W Incandescent, (1) 100W lamp, FLOOD - No Measure Recommended	12
1-110	9	9	51	25W Compact Fluorescent, twin, (2) 26W lamps RECESSED CAN - No Magsura Recommended	100
1-106	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lemps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	51
				17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, NLO (0.86 < BF < 0.95), 2X2 TROFFEH - No Measure	57
1-108	- 2	2	47	Rebott with a Kit 31W Fluorescent, (3) U-Tube, T-8 (amps, Instant Start Ballast, 2x2 THOFFER, W. 17W Elliprocess (0)	47
-108	2	2	89	24', 1-8 lamps, instant Start Ballast, RLO (BF< 0.85)	40
lallway by 4-126 lallway by 4-126	3	5 3	72	40W Compact Fluorescent, long twin, (2) 40W tamps, 2X2 TROFFER - No Measure Recommended	72
			12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended He-Lamp He-Dallast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w	12
1-126	0	0	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, PLO (BF < 0.85) Retroff with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 45" T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	57
-125	1	1	89	24", T-8 lamps, instant Start Ballast, RLO (BF< 0.65)	40

Room	Existing	Proposed	Exist	ECM Definition	a and charge
1.5 dun etabli 1644 bir 154 galası di.	Oty	Qty	Wattage		Proposed
4-136	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	Wattage
4-122				Refront with a Kit- 31W Fluorescent, (3) U-Tube, T-8 tamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3) 24" T-8 tamps, Instant Start Ballast Start Ballast Start Ballast Biological Communication (3)	72
4-122	2	2	89		40
4-121	,	2	89	Retroff with a Kt 21W Fluorescent, (3) U-Tube, T-8 tamps, Instant Stan Ballast, 2X2 TROFFER, W 17W Fluorescent, (3) 24*, T-8 tamps, instant Start Ballast, RLO (BF< 0.85)	40
7 42.1	<u> </u>		29		40
4-133	وا	9	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure	
4-133	3	3	12		117
	-	 		9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
4-133 restroom	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-130			222	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	\ <u>''</u> -
4-130	2	2	117	raeconnicenceu	117
4-131	4 -		117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
4-131	-	4	117		117
4-132	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	
7.22		 			117
4-134	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
4-230 to 4-239 hallway					117
	6	6	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-230 to 4-239 hallway	4	4	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
				54W Flüorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	12
4-224	1	1	117	racconine(quad	117
4 205	_		l	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-206	1	1	117	neconnected	117
4-205		١.		54W Fluorescent (2) 45.8" 7-5 HO lamps, (1) PRS Electronic Sallast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	111
4-203	11	1	117	preconnienced	117
4-202	1.	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	- '''
*-202			1 ' ' '		117
4-204	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
				54W Fluorescent (2) 45.8" T-5 FIO lamps, (1) PRS Electronic Ballast, FILO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-201	1	1	117	Recommended	
				He-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.95 < BF < 0.95), 4" INDUSTRIAL, W/	117
Mech	21	21	58	25W Fluorescent (2) 48" T6 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	
Mech	4	4 .	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	38
		-		20. Ign Do palest 20th Studenter (1) 99 tamp, CAT Sign - No Measure Recommended	12
Oxygen room	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4"VAPORTIGHT, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF- 0.85)	
			-	(A) C To the party of the party of the cost	38
Hallway between 220 and 242	12	12	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	
- · <u>-</u> -				Annature mental and the property of the proper	72
Haliway between 220 and 242	3	3	12	8W EXIT T5 Fluorescant, (1) 8W lamp, EXIT SIGN - No Measure Recommended	
		<u> </u>	<u>'-</u> -	Hetrofit with a Kit. 3TW Fluorescent, (3) U-Tübe, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W/ 17W Fluorescent, (3)	12
· vewllsh	1	1	89	24", T-8 lamps, Instant Start Ballast, PLO (BFc 0.85)	
		<u> </u>		Re-lamp Re-ballast - 32W Fluorescent, (2) 48°, T-8 lamps, Instant Start Ballast, NLO (0.95 < BF < 0.95), 4' INDUSTRIAL, W/	40
1-271	1	1	58	Zow Fluctescent (2) 46° 16 @ 25W Jamps, Instant Start Rahast, PLO (BEz. 0.85)	1
		l		Retrofit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	38
Hallway	3	3	89	124 , 1-6 lattips, distant Stant Basiast, HLO (BF< 0.85)	7
				Refront with a Kit- 31W Fluorescent, (3) U-Tube, 1-8 tamps, Instant Start Ballast, 2X2 TROFFER, w/ 12W Fluorescent, (3)	40
Hallway	8	8	89	124°, 1-8 lamps, instant start Ballast, RLO (8F< 0.85)	40
				Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-B lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, W/	40
Loading dock	12	12	58	25W Fluorescent (2) 48" T6 @ 25W lamps, Instant Start Ballast, RLO (BFc 0.85)	38

Room	Existing Qty	Proposed Oty	Exist Wattage	.ECM Definition	Proposes
Parking Lot	7	7	288	Replace - 250W Metal Halide, (1) 250W lamp, Magnetic ballast, POLE SHOEBOX, w/ 116W LED, (1) Pole Heads	Wattage
Parking Lot	2	2	91	Replace - 70W Metal Halide, (1) 70W lamp, Magnetic ballast, WALLPACK, w/ 37W LED, (1) 37W	116
Parking Lot	. 5	5	288	Replace - 250W Metal Halide, (1) 250W Jamp, Magnetic ballasi, WALL PACK w/ 137W LED (1) 137W	37
1-201	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	137
			 ''' 	54W Fluorescent (2) 45.8" T-5 FIO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
1-202	2	2	117	Heconinalided	117
1-202A	2	2	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-200	7	7	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
1-203	1	. 1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended 64W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	72
1-205	2	2	117	Recommended	117
Hall between 248-267	7	7	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-267	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	-12
				Retroit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W. 17W Fluorescent (0)	40
1-266	2	2	89	124 , 1-0 (2010)S, (115), (115), (115), (115)	40
1-265	2	2	89	Retroilt with a Kit - 31W Fluorescent, (3) U Turbs, T-6 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	T
				Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFFR, W/ 17W Ethoroscopy, (6)	40
1-264	2	2	89	124, 1-0 kilips, liiskili Start deliast, RLO (BF< 0.85)	40
1-263	2	2	89	Retrolff with a Rif - 31W Fluorescent, (3) U-Tube, T-8 lamps; Instant Start Ballast, 2X2 THOFFER, W 17W Fluorescent, (3) 24", T-8 lamps, instant Start Ballast, RLO (BF< 0.85)	T
				Retroft with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
1-261	2	2	89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Reform with a Kit- 21W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
1-260	2	2	89	124", 1-6 lamps, instant Start Ballast, RLO (BF< 0.85)	40
1-255	5		117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	40
1-233		. 5	117	Retroffit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	117
1-256	8	8	89	24, 1-8 lamps, instant Start Ballast, HLO (BF< 0.85)	40
1-254	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-253	1	1.	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRIS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
				54W Fluorescent (2) 45,8° T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1,1), 2X4 TROFFER - No Measure	117
1-252	1	1	117	Hecommended	117
1-251	1	1	117	54W Fluorescent (2) 45.8° 7-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	T
	-			54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
1-250	1	. 1	117	Recommended [54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
1-248	1	1	117	Recommended	117
1-238	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
1-236	2	2	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	-12
1-230		-	117	54W Fluorescenti (2) 45.8" T-5 FlO lamps, (1) PRS Electronic Ballest, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
1-237	. 1	11	117	14 sexulus internet	117
1-235	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
1-242	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	117
1-240	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
		_		54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFEB - No Measure	72
1-244	2	2	117	Recommended 64W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
1-24 6 A	2	2	117	Hecommended	117
1-246	S	5		54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 6F < 1.1), 2X4 TROFFER - No Measure Recommended	11/2
1-140		-	117	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	117
1-247	. 2	2	85	25W Fluorescent, (3) 48" 1-8 @ 25W lamps, Instant Start Ballast, RI O (BF < 0.85)	57
1-245	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (8F < 0.85)	
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-6 lamps, Instant Start Ballast, NLO (0.85 & RE < 0.95) 224 TDOFEED 39"	57
1-243	2	2	85	(25W Piliotescent, (3) 46" 1-8 @ 25W lamps; Instant Start Rallast RLO (RF > 0.85)	57
1-241	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, NLO (BF < 0.85)	
				54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	57
L-234	1	1	117	Hecommended .	117
1-233	1	1	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	4.477
1-232	2	2	72	4CW Compact Fluorescent, long twin, (2) 40W tamps, 2X2 TROFFER - No Measure Recommended	72
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BE < 0.95), 2XA TRICEFER NV	
1-231	. 0	0	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85) [54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure	57
L-231	1	1	117	(Heconilide)ided	117
1-200A	6	6	117	54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
			111	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent (9)	117
ast lobby	. 0	0	89	24 , 1-d lamps, tristant Start Ballast, RLO (BF< 0.85)	40
ast lobby	7	7	453	400W Metal Halide, (1) 400W lamp, Magnetic ballast, FLOOD - No Measure Recommended	453
ast lobby	3	3	51	26W Compact Fluorescent, twin, (2) 26W tamps, RECESSED CAN - No Measure Recommended	51
l-2 11	1	1	85	Ré-tamp Re-ballast - 32W Fluorescant, (3) 46° T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48° T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
1-212			1	Re-lamp Re-ballast - 32W Fluorescent, (3) 46 T-8 lamps, Instant Start Ballast, NLO (0.85 - BE - 0.95) 3VA TROCESS IN	57
	1	1	85	25W Fluorescent, (3) 46" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	

Room	Existing Oty	Proposed Qty	Exist Wattage	ECM Definition	Proposed
1-213	1	1	85	He-lamp Re-ballast - 32W Fluorescant, (3) 48" T-8 temps, Instant Staft Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Staft Ballast, RLO (BF < 0.85)	Wattage
1-234	1	1		Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFER, w. 26W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
		_	ŀ	54W Fluorescent (2) 45.6" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Monday	57
1-215 Hall between 220-2238	1	1	117	reconlineract	117
Hall Detweell 220-2236	11.	11		40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended He-lamp Re-Dallast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	72
1-226	2	2	85	(ZOW Fluciescell), (3) 40 1-0 (# ZOW Jambs Install Start Ballact D) O (RE - 0 95)	57
1-224	1	1	85	Re-lamp Re-ballast 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	- 3'
1-223A	_			Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 jamps, instant start Ballast, Nt O (0.85 - RE - 0.95), 2V4 Trooper's	57
1-225K	4	4	85	Re-lamp Re-ballast - 32W Fluorescent. (3) 48" 1-8 lamps Instant Start Ballast, NLO (BF < 0.85)	57
1-222A	3	3	85	2507 FilluleScent, [3] 40 1-5 @ 2507 lambs, Instant Start Rallast RI O /RC - n RE\	57
1-222	1	1	89	Retroft with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Bellast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-9 lamps, Instant Start Ballast, RLO (BF-c 0.85)	
1-221	1	1	89	Retrofit with a Rit - 31W Fluorescent, (3) U-Tube, T-B lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
		*	69	24", T-8 lamps, Instant Start Ballast, FILO (BF< 0.85) 54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, FILO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	40
1-225	. 2	2	117	[Aecaningerpag	117
1-227	1	1	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
1-228	4		85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" 1-8 lamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	117
220		4 ,	85	26W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Fetroit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3)	57
1-228A	1	1	89	124 , 1-0 MINDS, INSIAM STATE BAIRSS, HLC) (RF-c D R5)	40
1-229	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-6 lamps, instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFER, W/25W Fluorescent, (3) 46" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
1-270				Re-lamp Re-ballast - 92W Fluorescent, (2) 48", T-8 lamps, Instant Start Rallast, MI O (0.95 - 95 - 0.05), (1.8) U.S.	- 57
270	1	1		Re-lamp Re-ballast - 32W Fluorescent (3) 48° T. R lamps Instant Start Ballast NI C (4) 8° L. R. L. O. C.	38
1-280	9	9	85	Zovy (nuclescent, (a) 40 (-0 to 251) familis, instant Start Ballast, BLO (RF = 0.86)	57
1-291	1	1	58	Re-lamp Re-ballast - 32W Fludiescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 4" INDUSTRIAL, W/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85)	
1-292				Re-lamp Re-ballast - 32W Fluorescent, (2) 48° T.B lamps, Instant Stort Ballact, NI O (2) 85° - 95° - 9 CS. 41 N.D. (2)	38
232	3	3		26W Fluorescent (2) 48 16 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Ré-lamp Re-ballast - 32W Fluorescent, (2) 48", T. 8 lamps, Instant Start Ballast, NLO (ABE + BE - 0.05), A lamps, Instant Start Ballast, NLO (ABE + BE - 0.05), A lamps (alternative lamps), and the control of the	38
1-297	2	2	58	(25W Publissent (2) 46° 18 @ 25W lamps, Instant Start Rallast, BLO (RE- 6 85)	38
1-298	4	4	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Bellast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, W/ 25W Fluorescent (2) 48" 78 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	
-298A		_		Re-lamp Re-ballast - 32W Fluorescent, (2) 48" T-8 lamps, Instant Start Ballast, Au O (0.95 - BE - 0.07), 4 m/S-lamps	38
-230/	3	3	58	25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (6F-c 0.85) Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/	38
-294	1	1	- 58	(2507 Fillorescent (2) 45" 18 @ 259 lamps, Instant Start Ballast RLO (RE- 0.85)	38
-293	1.	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (6.85 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	
-295		_		He lamp Re-ballast - 32W Furgrescent, (2) 48", T-8 lamps, Instant Start Bellest, Ni (2) (0.65 - DE - 0.05), 4" NI DE CONTROL OF CONT	38
-2.55	2	2	- 58	25W Fluorescent (2) 48" T9 @ 25W lamps, instant Start Ballest, RLO (8F-c 0.65) Re-lamp Re-ballest - 32W Fluorescent (2) 48", T-6 lamps, Instant Start Ballest, NLO (0.65 < 8F < 0.95), 4" INDUSTRIAL, W/	38
levator motor 298	1	1	58	20W Fluorescent (2) 46" 18 (@ 25W.jamps, Instant Start Ballast RI O (RE> 0.85)	38
-270	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < 6F < 0.95), 4" INDUSTRIAL, W/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (6F< 0.85)	
·271				Re-lamp Re-ballast - 32W Fluorescent, (2) 48°, T-R lamps Instart Start Ballast As O (0.85 - 95 - 0.05) (1.818)	38
st lobbý	34	34	58 51	25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (8Fs 0.85) 26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	38
st lobby	3	3	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended 26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
				54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	51
st lobby -103	9	9		Recommended	117
.103	1	1	72	40W Compact Fluorescent, long twin, (2) 40W tamps, 2X2 TROFFER - No Measure Recommended 54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	72
-106	4	4		Reichellinet 20	117
-104	1	1	72	40W Compact Fluorescent, long lwin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
-102	3	3 -	72	40W Compact Fluorescent, long twin, (2) 40W tamps, 2X2 TROFFER - No Measure Recommended 64W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure	72
-110	1	1	117	ueministried.	117
-111	1	1	59	Retrofit with a Krt - 32W Fluorescent, (2) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (2) 24*, T-8 lamps, Instant Start Ballast, VHLO (BF > 1.1)	
				54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BE < 1.1) 2X4 TROFFER, No Massure	41
-112	1	1	117	Lecontification	117
-113	1.	1	89	Retrofft with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.65)	40
-114	2	2	89	Retrofit with a kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3) 24', T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3)	70
		-		Re-lating Re-ballast - S2W Egiptescent (2) 48" T-8 larges Instant Start Religion All Over DE 1887, of the	40
-115	2	2	85	2014 Fluviescent, (8) 40 1-8 (2) 25W (amps, Instant Start Rallast, Ri O (RE - 0 85)	57
116	2	2	89	Retroift with a Kit. 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 THOFFER, w/ 17W Fluorescent, (3) 24', T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
117	2	2	89	Retroft with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF-c 0.65)	
	2	2		8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	40
117				Rehofft with a Kit - 31W Fluorescent, (3) U-Tube, T-B larges, Instant Start Ballact, 222 TO U-EER vii. 17M Fluorescent.	12
117 117A	3	3	89	(24 , 1-6 MINDS, INSIANI SIAN BAIRS), RI () (RE> 0 RG)	40
	3	3 9	89	za., i -o lanps, insiant salar Ballast, RLO (BFz 0,85) He-lamp Re-ballast - 32W Fluorescent, (3) 48°T-8 lamps, instant Start Ballast, NLO (0,85 < 8F < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48°T-8 @ 25W lamps, instant Start Ballast, BLO (BFz 0,85)	
:117A			85	24., 1-6 lamps, instant Stant Ballast, RLO (BF< 0,85) Re-lamp Re-ballast - 32W Fluorescent, 43 AR 1-R lamps, Instant Start Ballast, NOA A SE, TRE TRACT TO THE CONTROL OF	40 57 40

Room	Existing Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed
1-131	1	1	85	R6-lamp He ballast - 32W Fluorescent, (3) 48" T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W Iamps, Instant Start Ballast, RLO (BF < 0.85)	Wattage
1-132	1	1	85	Re-tamp Re-ballast - 32W Fluorescent, (3) 48° T-8 lamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w// 25W Fluorescent, (3) 48° T-8 @ 25W tamps, instant Start Ballast, RLO (BF < 0.85)	57
				Retrofit with a Kif - 31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFER, wt. 17W Fluorescent, (3)	. 57
1-133	1	1	89	Re-lamp Re-ballast - 32W Fluorescent (3) 28° 1-8 tamps listent Start Ballast NI O (0.86 - RE - 0.06) GV	40
1-135	3	3	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF c 0.85) Re-tamp Fle-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
1-136	1	1	85	145W Fluviesceni, (3) 46 1-5 (#) 25W lambs, instant start Rallast Ri () (RE > 0 ac)	
1-137	6	6	85	Re-lamp He-ballast - 32W Fluorescent, (3) '48' T-8 tamps, Instant Starr Ballast, NLC (0.85 < BF < 0.95), 2X4 TROFFER, w 25W Fluorescent, (3) 48' T-8 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85)	57
1-137	Ž	2 ·	51	26W Compact Fluorescent, twin, (2) 26W Jamps, RECESSED CAN - No Measure Recommended	57 51
South Staircase	18	18	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" WHAP, W 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
Elevators	0	0	50	Relamp - 50W Incandescent, (1) 50WPAR20 lamp, RECESSED CAN, w/ 14W LED screw-in PAR 20 narrow flood	98
			 	Fig. lamp Re-ballast - 92W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, N.O. (0.85 < BF < 0.95), 2" WDAD w/ 1201	.14
NE Staircase	16	1.6	58	Proofescent (2) 48" 18 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85) Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	38
HALL between 110-116	3	3	89	24", T-8 lamps, Instant Start Ballasi, RLO (BF< 0.85) Re-lamp Re-ballasi - 92W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/	40
Hall	6	6	58	2500 Fluchesterii (2) 46 16 @ 2500 lamps, instant Start Ballast, RLO (BF< 0.85)	38
Hall	3	3	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended Retroff with a Kit - 91W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	12
2-202	1	1	89	124 , 1-0 samps, instant Start Ballast, RLO (BF< 0.85)	40
2-204	1	1	89	Hetrofit with a Id1 - 31W Fluorescent, (3) U-Tube, T-B lamps, Instant Start Ballast, 2X2 TROFFEH, w/ 17W Fluorescent, (3) 24", T-B lamps, Instant Start Ballast, RLO (BFs 0.85)	
2-205	1	1	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballest, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	40
				54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
2-206	1	1	117	Recommended 54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
2-207	1	1	117	recommences	117
2-208	1	1	117	54W Fluorescent (2) 45.8" 7-5 HO lamps, (1) PRS Electronic Ballast, HLO (.85 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
2-269	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (8Fs 0.85)	
2-270	2	2	117	64W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	40
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48° T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2XA TRIOFFED, W.	117
2-267	3	3	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) [Fetrorit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps; Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	57
2-268	2	2	89	124°, 1-8 lamps, instant Stan Ballast, RLO (BF< 0.85)	40
2-266	1	1	89	Retrofft with a Kit - 31W Filiorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
2-262	1	1	89	Retrofit with a Kir - 91W Fluorescent, (3) U-Tube, T-8 lamos, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF-c 0.85)	
2-261	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48° T-8 lamps, Instant Start Ballast, NLO (0.65 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48° T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	40
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFED W/	57
2-263	2	. 2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
2-264	1	11	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 22W Fluorescent, (3) 48" T-8 tamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFER, w	57
2-249	1	1	185	25W Fluorescent, (a) 48" 1-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-247	1	1	85	Re-tamp Re-ballast - 32W Fluorescent, (3) 48" T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w 25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-248	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
2-246	1	. 1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	51
2-251	1	1	85	25W Fillorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, FILO (RF < 0.85)	57
2-244	4	4	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48° T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/25W Fluorescent, (3) 48° T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
1-242	1	1	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51 51
?-241 ?-240	-1	1	72	40W Compact Fluorescent, long twin, (2) 40W tamps, 2X2 TROFFER - No Measure Recommended	72
1-239	2	2	51 72	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended 40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	51
:-231				Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lambs, Instant Start Ballast, NEO (6.85 x BF < 0.95), 2V4 TOGESCO, W	72
-243	1	1	85 72	25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF< 0.85) 40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	57
-245				Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Hallast, 2X2 TROFFER, wt. 17W Fluorescent, (3)	72
-243 Iali between 244-251	3	3	89 72	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) 40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	40
lali between 244-251	1	1	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	72 12
ast wing hallway 202-261	4	4	12	8W EXIT T6 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
-232A -232A	6 2	6 2	72 51	46W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended 26W Compact Fluorescent, twin, (2) 26W lamps, RECESBED CAN - No Measure Recommended	72
-2328&C	9	9	72	40W Compact Fluorescent, wint, (2) 20W lamps, HECESSED CAN - No Measure Recommended 40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	51
-232B&C	7	7	51	26W Compact Fluorescent, twin, (2) 26W Jamps, RECESSED CAN - No Measure Recommended	7.2 51
ND FLOOR LOSBY	5	5	3	3W EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	3
ND FLOOR LOBBY ND FLOOR LOBBY	20	20	51 51	26W Compact Fluorescent, Win, (2) 26W lamps, RECESSED CAN - No Measure Recommended 26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
THE PERSON ADDRESS	18	18	1 01	LEUN COMPAGE FIGURESCRIE, WISI, IZI ZOW IZINOS, RECESSED CAN - No Measure Recommended	51

Room	Existing Qty	Proposed Oty	Exist Wattage	ECM Definition	Proposed
2-100	2	2	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	Wattage
2-102	2	. 2	89	Retroft with a Kit - 31W Pluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	51
2-104	2	2	., .	Retrofft with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFEH, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (8F< 0.85)	40
·				Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER W. 17W Fluorescent, (5)	40
2-106	2	2	89	24", T-8 lamps, Instant Start Baliast, PLO (BF< 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	40
2-107	2	2	85	2014 Fluorescent, (3) 46" -8 (# 25W lamps, Instant Start Rallast Rt O (RE > 0.85)	57
2-108	2	2	89	Retrofit with a Kit. 31W Fluorescent, (3) U-Tubs, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (8F< 0.85)	
2-109	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < 6F < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Ballast, NLO (6F < 0.85)	40
2-110	2	2	89	Retrofit with a Kit-31W Fluorescent, (3) L-Tube, T-8 lamps, Instant Start Ballast, 2X2 THOFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	57
				Re-lamp Re-ballast - 32W Fluorescent, (3) 48° T-8 James, Instant Start Ballast, NLO (0.85 - RE - 0.65) 3V/ TGS (FF)	40
2-111	. 1	1	85	25W Fluorescent, (3) 48" T-8 @ 25W famps, Instant Start Ballast, RLO (BF c 0.85) Retroit with a Kit - 91W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFEH, W 17W Fluorescent, (3)	57
2-112	2 .	2	89	z4 , t-o lagips, instant start Ballast, RLO (BF< 0.85)	40
2-113	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48°T-6 lamps, Instant Start Ballast, NLO (0,85 < BF < 0.95), 2X4 TROFFER, W/25W Fluorescent, (3) 48°T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-114	2	2	89	Retroft with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, PLO (BF< 0.86)	
2-121	2	2	85	He-lamp Re-ballast - 32W Fluorescent, (9) 48" 1-8 Jamos, Instant Start Ballast, NLO (0.85 - 85 - 0.95) 227 12/05555 33	40
		-		25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Retroff with a Kit- 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	57
2-120	9	9	89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Re-lamp He-ballast - 32W Fluorescent, (3) 48"T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	40
2-123	2	2	85	2597 Fluorescent, (2) 48" 1-5 (@ 2597 Jamps, Instant Start Ballast RI O (RE < 0.85)	57
2-122	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, [3] 48" T-8 lemps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-124	2	2	85	Re-lamp Re-ballast - 32W Flucrescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W/25W Flucrescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85)	
2-125				Re-lamp Re-ballast - 92W Fluorescent, (3) 48" [-8 lamps, Instant Start Ballast, NLO (0.65 < RE < 0.95) 284 TOOLEGED 194	57
	. 2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.95) Re-lamp Re-ballast - 22W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TAOFFER, W	57
2-126	. 2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85) Re-tamp Re-ballast = 32W Fluorescent, (3) 48" T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	57
2-127	2	2	85	25W Fluorescent, (3) 48° 1-8 @ 25W lamps, Instant Start Ballast, RI O (RF < 0.85)	57
2-130	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 (amps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
2-131	6	6	89	Retroff with a Kt31W Fluorescent, (3) U-Tube, T-8 tamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 tamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	57
3 132				Refroilf with a Kit - 31W Fluorescent, (3) U-Tube, 1-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
2-135	. 1	1	89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 9.85) Retroff with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
2-136	1	1	89	24", T-8 lamps, Instant Start Ballast, RLO (BF. 0.85) Retroit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
2-137	1	1	89	24 , 1-6 lamps, instant Start Ballast, RLO (BF< 0.85)	40
West Wing Hallway 104-137	15	15	89	Retrofit with a Kit - 81W Fluorescent, (3) U-Tube, T-8 lamps, Instant Stant Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Stant Ballast, BLO (BF< 0.85)	- 40
West Wing Hallway 104-137	7	7	3	3W EXIT Light Emitting Dkode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	
		<u> </u>	- 3		3
West Wing Hallway 104-137	8	8	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended Retrofit with a Kit31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3)	51
East wing hallway 202-261	11	11	89	124", 1-8 lamps, instant Start Hallast, RLO (RE- 0.85)	40
2-140	1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-6 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
2-233	ž	2	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (8F< 0.85)	
120			· · · · ·	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2x4 TROFFER w/	38
3-130	2	2		25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) 54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (95 < BF < 1.1), 2X4 TROFFER - No Measure	57
3-132	2	2	117	Recommended	117
3-131	14	14	89	24°, 1-8 amps, instant Start Ballast, RLO (BF< 0.65)	40
3-127	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48° T-8 lemps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48° T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.86)	57
3-126	2	2		Re-lamp Re-ballast - 92W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85)	
3-125				Re-lamp Re-ballast - 32W Fluorescent, (8) 48" T-8 lamps, Instent Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TBOFFED 46"	57
7.5	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFEA, W	57
3-124	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.95) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w	57
1-123	2	2	85	26W Fillorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, Bi O (8) e 0 85)	57
3-122	2	2	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-6 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
J-121	2	2	85	Re-tamp Re-ballast - 32W Fluorescent, (3) 48" T-8 tamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFEH, w/ 25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.95)	57
				Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER w/ 17W Fluorescent, (3)	57
-120	3	3	89	24", T-8 tamps, Instant Start Ballast, RLO (BF< 0.85) Retroit with a Kit-31W Fluorescent, (3) U-Tube, T-8 tamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
-114	2	2	89	124 , 1-8 tamps, instant Start Ballast, RLO (BF< 0.85)	40
-113	2	2	85	Re-tamp Re-ballast - 32W Fluorescent, (3) 48" T-8 tamps, instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W tamps, instant Start Ballast, RLO (8F < 0.85) Retroff with a Kit - 31W Fluorescent, (3) U-Tube, T-8 tamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	. 57
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Room	Existing. Qty	Proposed Qty	Exist Wattage	ECM Definition	Proposed
3-111	2	2	85	He-lamp Ne-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFEH, W 26W Fluorescent, (3) 46" T-8 @ 25W lemps, Instant Start Ballast, RLO (BF < 0.85)	Wattage 57
3-110	2	2	89	Rehofit with a Kit. 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	
3-109	1	, 1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 temps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.95)	40
3-108	2	2	89	Retroff with a Kit-31W Fluorescent, (3) U-Tube, T-B lamps, Instant Staft Ballast, 2X2 TROFFER, W 17W Fluorescent, (3) 24*, T-8 lamps, Instant Staft Ballast, RLO (8F< 0.85)	57
3-107	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	40
3-106	2	2	89	Hetrofit with a kit 91W Fluorescent, (3) U-Tube, T-B lamps, Instant Start Ballast, 2X2 THOFFEH, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (8F< 0.95)	117
3-104				Retrofit with a kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3)	40
	2	2	89	24", T-8 tamps, Instant Stant Ballast, RLO (BF< 0.85) Retroit with a Kit- 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
3-137	1	1	89	Petrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lambs, Instant Start Ballast, 2X2 TROFFER, W 17W Fluorescent, (3)	40
3-136	1	1	89	124°, 1-8 tamps, instant Start Ballast, RLO (BF< 0.85) Hetrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFFR, w/ 17W Fluorescent (0)	40
3-135	1	1	89	24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85) Retrofit with a Kit - 21W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	40
West Wing Hallway 104-137	11	11	89	24", 1-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
West Wing Hallway 104-137	5	5	89	Retrofit with a Kit - 31W Fluorescent, (3) U-Tube, T-8 temps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
West Wing Hallway 104-137	6	6	3	SW EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	3
3-102	. 1	1	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, RLO (BF < 0.85)	57
3-100	1	1	72	40W Compact Fluorescent; long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
3RD FLOOR LOBBY 3RD FLOOR LOBBY	5 20	5 20	<u>3</u>	3W EXIT Light Emitting Diode, (1) 3W lamp, Single Sided, EXIT SIGN - No Measure Recommended	3
SRD FLOOR LOBBY	18	20 18	51	25W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended 26W Compact Fluorescent, twin, (2) 25W lamps, RECESSED CAN - No Measure Recommended	51
				Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL W/	51
3-252	2	2	58	25W Fluorescent (2) 46" T8 @ 25W lamps, Instant Start Ballest, RLO (BF< 0.85) Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.65 < BF < 0.95), 2X4 TROFFER, W	38
3-254	0	0	85	25W Fluorescent, (3) 48"T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.65) Re-lamp Re-ballast - 32W Fluorescent, (3) 46"T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w	57
3-255	0	0	85	25W Fluorescent, (3) 48" T-5 @ 25W lamps, Instant Start Ballast, RLO (8F < 0.85) 54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, RLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	57
3-250	2	2	117	Recommended	117
3-235	1	1	85	Re-laimp Re-ballast - 32W Fluorescent, (3) 48* T-8 lamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48* T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	57
3-235	13	13	89	Retrofit with a Kit- 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24*, T-8 lamps, Instant Start Ballast, RLO (BF- 0.65)	. 40
3-235	2	2	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended 54W Fluorescent (2) 45.8* T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	12
3-236	2	2	117	Recommended 54W Fluorescent (2) 45.8* T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
3-234	2	2	117	Recommended	117
3-237	2	2	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
3-232	2	2	117	54W Fluorescent (2) 45.8" 7-5 HO lamps, (1) PRS Electronic Balast, RLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
3-231	2	2	117	54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
3-245	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
3-244	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Messure Recommended	72
3-243	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4"INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
3-242	1	1	85	Re-lamp Re-ballast - 92W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, w/ 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	
3-223	1	1	117	54W Fluorescent (2) 45.8" T-5 HO jamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 THOFFER - No Measure Recommended	57
3-222				54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
	1	. 1	117	Recommended 54W Fluorescent (2) 45.6" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
3-221	2	2	117	Recommended S4W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballasi, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	- 117
3-220	3	3	117	Recommended	117
East Wing Hall 202-254	17	17	72	40W Compact Fluorescent, long (win, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
3-213	1	1	51	26W Compact Fluorescent, twin, (2) 25W tamps, RECESSED CAN - No Measure Recommended 154W Fluorescent (2) 45.8" 1-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Lecommends	51
J	1	1	117	Recommended Refront with a Kit - 31 W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	117
3-212	2	2	89	24°, 1-8 lamps, Instant Start Ballast, RLO (BF< 0.65) 54W Fluorescent (2) 45.6" T-6 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	40
3-211	2	2	117	Hecommended Hetroffi with a Kit - 91W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	117
3-210	2	2	89	24*, T-8 lamps, instant Start Ballast, RLO (BFc 0.85) Retrofit with a Kit- 91W Fluorescent, (3) U-Tube, T-6 lamps, Instant Start Ballast, 2X2 TROFFER, W/ 17W Fluorescent, (3)	40
3-208	2	2	89	24", 1-6 lamps, instant Start Ballast, RLO (BF< 0.85)	40
· · · · · · · · · · · · · · · · · · ·		I	1	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Bellast, RLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	
3-207	3	3	117	Recommended	117
3-207 3-207A	<u>3</u> 1	1	89	Recommended Retrofit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3) 241, T-8 lamps, instant Start Ballast, RLO (BF-c 0.85) Retrofit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3)	117 40

Roam	Existing Oty	Proposed Qty	Exist Wattage	ECM Definition	Proposed
3-204	2	2	89	Remote with a Kit - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	Wattage
3-202	4		89	Retrofit with a Kif - 91W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, BLO (BF< 0.85)	40
East Lobby	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	40
East Lobby	27	27	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	12
West Lobby	1	3	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	51 72
West Lobby	2	2	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
West Lobby	1	1	12	8W EXIT T5 Fluorescent, (1) 8W (arrip, EXIT SIGN - No Measure Recommended	12
West Lobby Atrium	13	13	51	26W Compact Fluorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended	51
4-203	9	2	183 72	150W Metal Halide, (1) 150W lamp, Magnetic ballast, FLOOD - No Measure Recommended 40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	183
			\ ' '	64W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure	72
4-220	1	1	117	Hecommended	117
4-221	1	1	117	54W Fluorescent (2) 45.8° 1-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-219	2	2	117	54W Fluorescent (2) 45.8° 7-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-222	2	2	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
4-223	1	1	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
			<u> </u>	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-224	1	1	117	Hecommended S4W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-225	1	1	117	Recommended 54W Fluorescent (2) 45.8* T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER No Measure	117
4-226	1	1	117	Recommended	117
4-246	1	1	117	54W Fluorescent (2) 45.8° 7-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 THOFFER - No Measure Recommended	117
4-245	1	1	117	54W Fluorescent (2) 45.8° (-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-244	2	2	117	64W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PRS Electronic Ballast, FLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
4-251	3	3	85	Re-lamp Re-ballast - 32W Fluorescent, (3) 48" T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W 25W Fluorescent, (3) 48" T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.85)	117
4-242				54W Fluorescent (2) 45.8" T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure	57
4-242	1	1	72	Recommended 40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	117
· · · · · · · · · · · · · · · · · · ·				54W Fluorescent (2) 45.8" 1-5 HO lamps, (1) PRS Electronic Balast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	72
4-252	1	1	117	Recommended S4W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-253	9	9	117	Hecommended ·	117
4-254	. 1	1	117	54W Fluorescent (2) 45.6" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-255	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-238	1	1	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1); 2X4 TROFFER - No Measure Recommended	117
4-236	1	1	117	54W Fluorescent (2) 45.8° T-5 HO tamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
				54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-235	2	2	117	Recommended S4W Fluorescent (2) 45.8" 1-5 HC lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-234	1	1	117	Hecommended	117
4-232	2	2	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
4-233	1	1	117	64W Fluorescent (2) 45.8* T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 THOFFER - No Measure	<u> </u>
4-231		l	 	54W Flucrescent (2) 45.6" 1-5 HO lamps, (1) PRS Electronic Ballast, HLO (,95 < BF < 1.1), 2X4 TROFFER - No Measure	117
	1	1	117	54W Fluorescent (2) 45.8° T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	117
4-230	1	3	117	Recommended	117
4-240 4-241	1	1	72 72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended 40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
			· · · · · · · · · · · · · · · · · · ·	17W Fluorescent, (3) 24", T-8 lamps, instant Start Ballast, NLO (0,85 < 8F < 0.95), 2X2 TROFFER - No Measure	72
4-101	1	1	47	Hecommended	47
4-102	. 1	1	100	100W Incandescent, (1) 100W lamp, FLOOD - No Measure Recommended Relamp - 60W Incandescent, (1) 60W lamp, REVLESS, w/ 13W Compact Fluorescent, (1) 13W screw-in lamp/base w/	100
4-104	1	1	60	permanent disk installed, any bulb shape	13
4-110	2	2	12	8W EXIT T5 Fluctescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
4-110 4-110	9	10	100	100W Incardescent, (1) 100W lamp, FLOOD - No Measure Recommended	100
		9		26W Compact Fitorescent, twin, (2) 26W lamps, RECESSED CAN - No Measure Recommended Re-lamp Re-ballast - 32W Fitorescent; (3) 48° T-8 lamps, Instant Start Ballast, NLO (0.65 < BF < 0.95), 2X4 TROFFER, w	51
4-106	2	2	85	25W Fluorescent, (3) 48" T-8 @ 25W tamps, Instant Start Ballast, PLO (6F < 0.85) 17W Fluorescent, (3) 24", 1-8 lamps, Instant Start Ballast, NLO (0.85 < 8F < 0.95), 2X2 THOFFER - No Measure	. 57
4-108	2	2	47	Recommended Retrofit with a Kit-31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	47
4-108	2	2	89	24", 1-8 lamps, instant Start Ballast, RLO (BF< 0.85)	40
Hallway by 4-126	5	5	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
Hallway by 4-126	3	3	12	BW EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended Re-lamp Re-ballast - 32W Fluorescent, (3) 48" 1-8 lamps, instant Start Ballast, NLO (0.85 < BF < 0.95), 2X4 TROFFER, W	12
I					
4-126	0	٥	85	25W Fluorescent, (3) 48* T-8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.05) Retrofit with a Kft - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3)	57

Room	Existing	Proposed	Exist		
	Oty.	Qty	Wattage	ECM Definition	Proposed
4-136	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	Wattage 72
4-122	2	2	89	Retrofit with a Kit - 31W Fluorescent, (3) U Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RI.O (BF< 0.85)	40
4-121	2	2	89	Heliroffi with a Kfr 31 W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFEB, w 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
		-	- 95	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure	40
4-133	9	9	117	Recommended Recommended	447
4-133	3	3	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	117
4-133 restroom	1	1	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-130	2	2	117	54W Fluorescent (2) 45.6" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measute Recommended	117
4-131	4	4	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-132	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-134	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PHS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-230 to 4-239 hallway	6	6	72	40W Compact Fluorescent, long twin, (2) 40W lamps, 2X2 TROFFER - No Measure Recommended	72
4-230 to 4-239 hallway	4	4	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	12
4-724	1	1	117	54W Fluorescent (2) 45.6" 7-5 FO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-206	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	
4-205	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-202	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-204	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < 8F < 1.1), 2X4 TROFFER - No Measure Recommended	117
4-201	1	1	117	54W Fluorescent (2) 45.8" T-5 HO lamps, (1) PRS Electronic Ballast, HLO (.95 < BF < 1.1), 2X4 TROFFER - No Measure Recommended	117
Mech .	21	21	58	Re-famp Re-ballast - 32W Fluorescent, (2) 48", T-B lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	
Mech	4	4	12	9W EXIT Compact Fluorescent, (1) 9W lamp, EXIT SIGN - No Measure Recommended	38
Oxygen raom	1	1	58	Re-larin Re-ballast - 32W Fluorescent, (2) 48°, T-B lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4 VAPORTIGHT, w/ 25W Fluorescent (2) 48° T8 @ 25W lamps, Instant Start Ballast, RLO (BF < 0.95)	12 38
Hallway between 220 and242	12	12	72	40W Compact Fluorescent, long (win, (2) 40W (amps, 2X2 TROFFER - No Measure Recommended	72
Hallway between 220 and242	3	3	12	8W EXIT T5 Fluorescent, (1) 8W lamp, EXIT SIGN - No Measure Recommended	12
Hallway	1	1	89	Retrofit with a Rif - 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24", T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
1-271	1	1	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48°, T-8 lamps, Instant Start Ballast, NLO (0.85 < BF < 0.95), 4' INDUSTRIAL, w/ 25W Fluorescent (2) 48° T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38
Italiway	3	3	89	Retrofit with a Kt 31W Fluorescent, (3) U-Tube, T-8 lamps, Instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (3) 24', T-8 lamps, Instant Start Ballast, RLO (BF< 0.85)	40
Hellway	8	8	89	Retroint with a Kit - 91W Fluorescent, (8) U-Tube, T-8 lamps, instant Start Ballast, 2X2 TROFFER, w/ 17W Fluorescent, (8) 24*, T-8 lamps, instant Start Ballast, RLO (BF< 0.85).	40
Lozding dock	12	12	58	Re-lamp Re-ballast - 32W Fluorescent, (2) 48", T-8 lamps, Instant Start Ballast, NLO (0.65 < BF < 0.95), 4" INDUSTRIAL, w/ 25W Fluorescent (2) 48" T8 @ 25W lamps, Instant Start Ballast, RLO (BF< 0.85)	38

Site-Wide ECMs

SCW-15: Sustainable Services

After meeting with the CCHS director the scope was revised. Please substitute the scope on pages 84-86 with the following:

The goal was to affect the Behavior Change Management of the Cook County Health & Hospital Systems (CCHHS). The *Integrated Bottom Line* of People, Planet & Profit is the platform many use for social value creation, environmental and economic value creation respectively.

- Visit 19 hospital and health centers in CCHHS. Discuss the ways the County staff can improve the way CCHHS interacts with patients to save money and the planet!
- Create a CCHHS green logo to reflect the new green initiatives. Ask the employees to take the *CCHHS Green Pledge*.

- Compile valuable information for CCHHS to make a significant impact on the overall budget and the environment.
- Final report will include action steps for the county along with potential savings.

4. Changes to Exhibit D

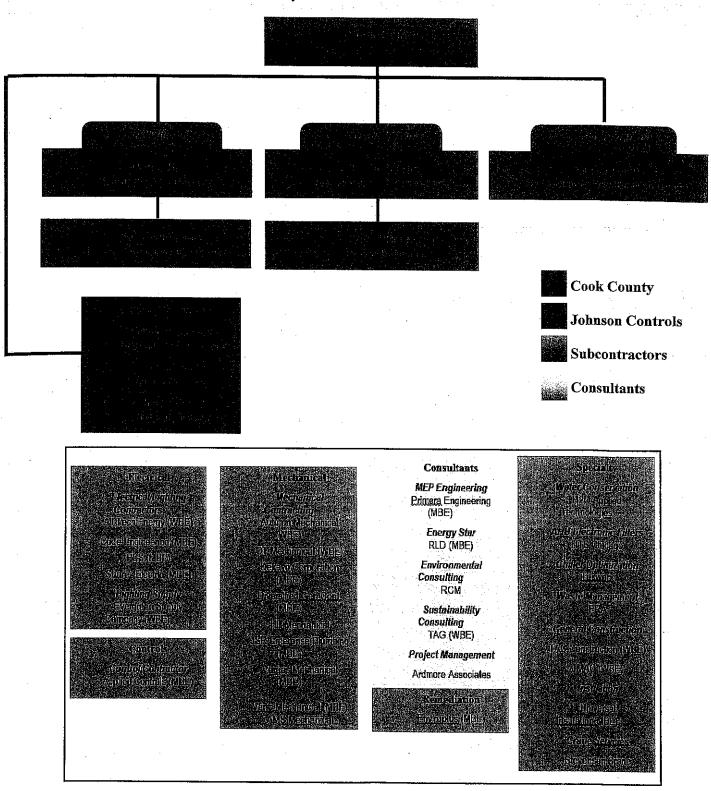
Please substitute the following Exhibit D for the one on page 130 of 397.

Exhibit D List of Subcontractors

Subcontractor	Work / Trade	WBE :	Percent Participation	MBE	Percent Participation
Hill Mechanical Corporation	Mechanical				
All-Tech Electrical	Electrical	Х	3.68%		
Stevenson Crane	Cranes	Х	0.21%		
TAC Construction	General Construction	Х	1.00%		
Autumn Construction	Construction Management, HVAC/Mechanical Work	Х	1.41%		
CT Mechanical	HVAC Construction, Subcontract Management	Х	1.18%		
Universal Insulation	Pipe and duct insulation			X	0.79%
Primera Engineers	Engineering and Design			X	2.27%
Diversified General Contractors	Construction Management, HVAC/Mechanical Work			X	4.78%
Vargas Mechanical	Construction Management, HVAC/Mechanical Work			<u>x</u>	2,43%
Dekayo Corp	Construction Management, HVAC/Mechanical Work			X	1,30%
Hill Mechanical Services	Cutting and Coring Work, Air and Water, Test and Balance				1,3076
J-Mac	Construction Services	Х	0.13%		
Suarez Electric Company	Electrical		- 5120/5	X	2.37%
Evergreen Supply Company	Lighting and Electrical Supply	X	2.33%		2,3776
Applied Controls and Contracting Services	Electrical		2.05/2	X	1,80%
Code Engineering	Electrical			- X	2.52%
Power and Communication Systems	Electrical			X	1.26%
T.A.G	Sustainable Services	х	0.99%		1.20%
RLD Resources	Energy Consulting			Х	0.05%
Level-1 Global Solutions	Information Technology/ Networking Consulting	<u> </u>		X	0.19%
Ardmore Associates	Construction Management	х	0.14%	^_	0.13%
Enviropius inc.	Environmental Remediation		3.2-770	Х	0.24%
Regulatory Compliance Management, Inc.	Environmental Health and Safety Services				0.2476
HTS Chicago	HVAC Services				
Controlled Environment Test and Balancin	Test and Balancing				
JSR Enterprises	Plumbing			X	0.46%
Vario Mechanical	Mechanical		7.0.	<u>`</u>	0.46%
Power and Communication Systems				^	U.2U%
(Indirect participation)	Electrical	l		×	3.40%
Total		 	11 08%	^_	
Iotal	<u> </u>	L	11.08%		24.07%

Changes to Exhibit E Please substitute the following Exhibit E for the one on page 131 of 397.

Exhibit E - Key Personnel



Changes to Exhibit G

Replace the table on page 139 of 397 with the following:

Performance Gurantee Year	Guarantee	d Energy ar	nd Demand	Operation and Maintenance Savings	Utility Savings	Guaranteed Annual Savings Amount
	kWh	kW	Therms			
11	12,311,391	2,206	783,704	\$1,270,270.00	\$1,198,178.04	\$2,468,448.04
. 2	12,311,391	2,206	783,704	\$317,115.29	\$1,233,712.00	\$1,550,827.29
3	12,311,391	2,206	783,704	\$278,879.89	\$1,270,315.64	\$1,549,195.53
4	12,311,391	2,206	783,704	\$287,246.75	\$1,308,021.60	\$1,595,268.34
5	12,311,391	2,206	783,704	\$295,863.99	\$1,346,863.52	\$1,642,727.51
6	12,311,391	2,206	783,704	\$304,739.93	\$1,386,876.08	\$1,691,616.01
7	12,311,391	2,206	783,704	\$313,882.07	\$1,428,095.05	\$1,741,977.11
8	12,311,391	2,206	783,704	\$323,299.10	\$1,470,557.26	\$1,793,856,36
9	12,311,391	2,206	783,704	\$332,997.92	\$1,514,300.72	\$1,847,298.64
10	12,311,391	2,206	783,704	\$342,987.64	\$1,559,364.61	\$1,902,352.25
11	12,311,391	2,206	783,704	\$296,122.57	\$1,605,789.30	\$1,901,911.87
12	12,311,391	2,206	783,704	\$305,006.24	\$1,653,616.42	\$1,958,622.67
13	12,311,391	2,206	783,704	\$314,156.43	\$1,702,888.91	\$2,017,045.34
14	12,311,391	2,206	783,704	\$323,581.12	\$1,753,650.99	\$2,077,232.11
15	12,311,391	2,206	783,704	\$333,288.56	\$1,805,948.30	\$2,139,236.86
18	12,311,391	2,206	783,704	\$343,287.21	\$1,859,827.86	\$2,203,115.08
17	12,311,391	2,206	783,704	\$353,585.83	\$1,915,338.17	\$2,268,924.00
18	12,311,391	2,206	783,704	\$364,193.41	\$1,972,529.20	\$2,336,722.61
19	12,311,391	2,206	783,704	\$375,119.21	\$2,031,452.51	\$2,406,571.72
20	12,311,391	2,206	783,704	\$386,372.78	\$2,092,161.23	\$2,478,534.01
Total	246,227,814	44,112	15,674,076	\$7,461,995.93	\$ 32,109,487.39	

[•] Change the Guaranteed Project Savings Amount on page 139 and 140 of 397 to \$39,571,483.32.



	Construction Sell Price	\$	26,497,854					
Paydown	Capital Contribution]	1,050,000					
of Debt	Rebates	l	_					
OI DCDC	Grants	J						
Fees	Miscellaneous Fees]	- *					
Ad	justed Financed Amount	\$	25,447,854					
	Loan Structure		Lease					
. (Contract Term - Years		20					
Cor	struction Term - Months		17					
Lo	an Payment Frequency		Annuai					
	Interest Rate 3,50%							

easnieus	Case									Von	measured			_								_	
Summa	ıry	Consu	ctric mption		al Electric emand	Na	tural Gas	Uŧ	ility Savings	ì	latedal Savings	To	tal Savings	Lo	an Payment	4	icrvice (Perf. (gmt.)	Ve	isiurement rification f. Mgmt.)		formance nagement	E	alance
	Year 1		119,987	\$	42,942	5	490,477	\$	1,253,405	\$	259,823	\$	1,513,229	Š	1,304,834	ş	12,425	\$	195,970	. \$	208,395	4	
	Year 2		743,387	. \$	44,338	, \$	502,738	\$	1,290,463	\$	363,005	5	1,653,468	\$		5	12,798	š	169,149	Ś	181,947	Ť	· · · · · · ·
	Year 3		67,547	\$	45,779	\$	515,307	\$	1,328,633	\$	326,146	\$.	1,654,779	\$	1,505,270	\$	13,182	\$	136,328	Š	149,509	š	
	Year 4		792,492	\$	47,267	5	528,190	\$	1,367,949	\$	335,931	\$	1,703,860	\$	1,566,685	\$	13,577	\$	123,617	Ś	137,194	Ι.	Ċ
	Year 5		18,248		46,803	\$	541,394	\$.	1,408,446	\$	346,009	5	1,754,454	\$	1,614,494	\$	13,984	\$	125,976	Ś	139,960	\$	
	Year 6		344,841	\$	50,389	\$	554,929	\$	1,450,160	\$	356,389		1,605,549	\$	1,663,740	\$	14,404	*	128,405	Ś	142,809	 \$	
	Year 7		72,299	\$	52,027	\$	568,802	\$	1,493,128	\$	367,081	\$	1,860,209	\$	1,714,465	\$	14,836	\$	130,907	Ś	145,743	ś	
	Year 8		100,548	\$	53,718	5	583,022	\$	1,537,188	\$	378,094		1,915,482	\$	1,766,716	\$	15,281	\$	133,484	\$	148,766	ś	_
_	Year 9		29,919	. \$	55,463	\$	597,598	\$	1,582,981	\$	369,435		1,972,417	\$	1,820,539	\$	15,740	\$	136,139	\$	151,879	ś	
erformance	Year 10		160,142	\$	57,266	. \$	612,538	\$	1,629,946	\$	401,119	\$	2,031,065	\$	1,725,536	\$	166,656	\$	138,873	\$	305,529	ś	
Years	Year 11		191,346	ş	59,127	Ş	627,851	ş	1,678,125	. \$	355,998	\$	2,034,323	\$	1,875,936	\$	16,698	\$	141,689	\$	158,388	Š	-
	Year 12		23,565	. \$	51,049	\$.	643,548	\$	1,728,162	. \$	366,678	\$	2,094,840	\$	1,933,051	\$.	17,199	\$	144,590	\$	161,789	\$	
	Year 13		56,831	\$	63,033	\$	659,636	\$	1,779,500	\$	377,678	\$	2,157,179	\$	1,991,886	\$	17,715	\$	147,578	\$	165,293	ŝ	
	Year 14		91,178	\$	55,081	Ś	676,127	\$	1,832,387	\$	389,009	Ş	2,221,396	\$	2,052,494	\$	18,247	\$	150,655	Ś	168,902	š	_
	Year 15		25,641	\$	67,197	\$	693,030	\$	1,885,858	\$	400,679	\$	2,287,547	\$	2,114,929	\$	18,794	\$	153,625	\$	172,619	ś	_
	Year 16		63,257	.\$	69,381	. Ş	710,356	\$	1,942,994	5	412,699	\$	2,355,693	\$	2,179,246	Ś	19,358	\$	157,090	\$	176,447	š	_
	Year 17		01,053	\$	71,635	\$	728,115	\$	2,000,614	\$	425,080	\$	2,425,894	\$	2,245,503	\$	19,938	\$	160,452	\$	180,391	\$	
	Year 1B		40,098	\$	73,954	\$	746,318	\$	2,060,379	.\$	437,833	\$	2,49B,212	\$	2,313,680	\$	20,537	\$	163,916	\$	184,452	š	
	Year 19		80,401	\$	76,367	s	764,976	\$	2,121,744	\$	450,968	\$	2,572,712	\$	2,313,680	\$	21,153	5	167,483	\$	188,636	Š	70,3
Total	Year 20	\$ 1,3 (\$119)	22,014	\$	78,849 163,676	\$	784,100	\$	2,184,953	\$	464,497	ş	2,649,460	\$	2,313,680	Ś	21,787	ŝ	171,158	Ś	192,945	ī	142,8

The original total savings (July, 2012) shown in Exhibits G and H equal \$42,212,781.75, which includes the \$1,050,000 in capital cost avoidance.

The table below shows the final project closeout cash flow.

Johnson Controls

Project Closeout Financial Analysis - 20 Year Project

Resource i	Name	Mortgage 1
Constructi	on Sell Price	5 6,978,624
Paydown	S - '	
of Debt	Rebates	\$ -
O) Deut	Grants	5 -
Fees	Miscellaneous Fees	Š -
Adjusted F	inanced Amount	\$ 6,978,624
Loan Struc	ture	Lease
Contract T	erm - Years	20
Constructi	on Term - Months	17
Loan Paym	ent Frequency	Annual
Interest Ra	ate	3,50%

Resource I	The same of the sa	Mortgage 2
Constructi	on Sell Price	\$ 19,519,230
Paydown of Debt	Capital Contribution Rebates Grants	\$ 1,050,000` \$
Fees	Miscellaneous Fees	
	Inanced Amount	\$ 18,469,230
Loan Struc	ture	Lease
Contract T	erm - Years	20
Constructi	on Term - Months	17
Loan Payn	ent Frequency	Annual
Interest R	ate	1.00%

Business	Case									Nor	-measured					-							
Summ	ary	Co	Bectric Insumption		ral Electric Demand	Na	itural Gas	Uti	lity Savings		Material Savings	To	ital Savings	io	an Payment	- (ervice (Perf. Igmt.)	Ve	surement offication of. Mgmt.)		formance nagement		Balance
Performance Years	Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 10 Year 11 Year 12 Year 13 Year 14 Year 15 Year 16 Year 17 Year 17 Year 18 Year 19	************	702,293 725,118 748,684 773,016 798,139 824,079 850,861 878,514 907,068 936,546 966,983 936,546 966,983 91,090,889 1,090,889 1,171,546 1,209,621 1,248,693	****	41,641 42,995 44,392 45,835 47,324 48,862 50,450 53,783 55,531 57,336 59,199 61,123 63,110 65,161 67,278 69,465 71,723 74,054	*****	454,244 455,600 477,240 489,171 501,400 513,935 526,783 539,953 553,428 581,470 610,907 625,180 641,834 657,880 674,327 691,185	*************	1,198,178 1,233,712 1,270,316 1,398,022 1,346,864 1,386,876 1,428,095 1,470,557 1,514,301 1,559,365 1,605,789 1,653,616 1,702,889 1,859,948 1,859,948 1,859,948 1,915,338 1,972,529	***************	220,270 317,115 276,880 287,247 295,864 304,740 313,882 323,298 342,988 295,123 304,245 323,581 333,289 343,289 343,289 343,289	******************	1,416,448 1,550,827 1,599,196 1,595,268 1,642,728 1,691,616 1,743,976 1,902,352 1,902,952 1,901,912 1,956,623 2,017,045 2,077,232 2,139,237 2,203,115 2,268,924 2,336,723	*************	1,210,053 1,356,890 1,359,686 1,421,683 1,443,454 1,445,679 1,470,937 1,484,192 1,459,265 1,510,901 1,522,364 1,510,265 1,557,724 1,687,1431 1,587,724 1,687,516	****************	12,425 12,798 13,182 13,577 13,984 14,404 14,836 15,281 15,740 166,656 16,698 17,199 17,715 18,247 18,794 19,358 19,938 20,537	************	195,970 169,149 136,328 123,617 128,405 130,907 133,484 136,139 138,873 141,689 144,590 147,590 150,655 157,090 160,452 163,916	*************	208,395 181,947 149,509 137,194 139,960 142,806 145,743 148,766 151,879 305,529 165,293 165,293 166,902 172,619 176,447 180,391 180,391 180,391 180,495	**************	36,3 69,3 103,2 138,1 174,1 211,2 138,5 246,6 265,9 326,3 368,0 411,0 455,2 500,8 547,7
Total	Year 20		1,289,524 19,358,177		76,460	Sign	726,177	\$ \$	2,031,453 2,092,161 32,109,487	9 \$	375,119 386,373	\$ -\$	2,406,572 2,478,534	\$ \$	1,621,804 3,092,412 31,257,647	\$ \$	21,153 21,787	\$ \$	167,483 171,158	\$ \$	188,636 192,945	\$	596,1 (805,5 3,802,2

The total savings (March, 2015) shown in Exhibits G and H equal \$39,571,483.32, which includes the \$1,050,000 in capital cost avoidance.

6. Changes to Exhibit H

Change Table-1 on page 146 of 397 to the following:

	Non- Measured	Option A measured	Total	Non- measured	Option A Measured	Option C Measured	Total	Non- Measured	Total
Year	O&M ***	O&M ***	O&M ***	Utility Cost Avoidance *	Utility Cost Avoidance *	Utility Cost Avoidance*	Utility Cost Avoldance *	Future Capital Cost Avoidance **	Benefits
1	\$155,270.00	\$65,000.00	\$220,270.00	\$12,428.00	\$476,228.25	\$709,521.60	\$1,198,178.04	\$1,050,000,00	\$2,468,448.04
2	\$236,002.79	\$81,112.50	\$317,115.29	\$12,831.91	\$491,744.88	\$729,135.21	\$1,233,712.00		\$1,550,827.29
3	\$195,334.01	\$83,545.88	\$278,879.89	\$13,248.95	\$507,766.78	\$749,299,91	\$1,270,315.64		\$1,549,195.53
4	\$201,194.49	\$86,052.25	\$287,246.75	\$13,679.64		\$770,031.57	\$1,308,021.60		\$1,595,268.34
5	\$207,230.17	\$88,633.82	\$295,863.99	\$14,124.12	\$541,392.70	\$791,346.69	\$1,346,863.52	\$0.00	\$1,642,727.51
6	\$213,447.09	\$91,292.83	\$304,739.93	\$14,583.16	\$559,031.25	\$813,261.68	\$1,386,876.08		\$1,691,516.01
7	\$219,850.45	\$94,031.62	\$313,882.07	\$15,057.11	\$577,244.13	\$835,793.81	\$1,428,095.05		\$1,741,977.11
- 8	\$226,446.53	\$96,852.57	\$323,299.10	\$15,546.47	\$596,050.03	\$858,960.76	\$1,470,557.26		\$1,793,856.36
9	\$233,239.78	\$99,758.14	\$332,997.92	\$15,051.73	\$615,468.26	\$882,780.73	\$1,514,300.72		\$1,847,298.64
10	\$240,236.75	\$102,750.89	\$342,987.64	\$15,573.41	\$635,518.76	\$907,272.45	\$1,559,364.61		\$1,902,352.25
11	\$190,289.15	\$105,833.41	\$296,122.57	\$17,112.04	\$656,222.08	\$932,455.17	\$1,605,789.30		\$1,901,911.87
12	\$195,997.83	\$109,008.42	\$305,006.24	\$17,558.18	\$677,599,49	\$958,348.75	\$1,653,616.42	\$0.00	\$1,958,622.67
13	\$201,877.76	\$112,278.67	\$314,156.43	\$18,242.40	\$699,672.92	\$984,973.58	\$1,702,888.91	\$0.00	\$2,017,045.34
14	\$207,934.09	\$115,647.03	\$323,581.12	\$18,835.28	\$722,465.03	\$1,012,350.69	\$1,753,650.99		\$2,077,232.11
15	\$214,172.12	\$119,116.44	\$333,288.56	\$19,447.46	\$745,999.19	\$1,040,501.65	\$1,805,948.30		\$2,139,236.86
16	\$220,5 9 7.28	\$122,689.93	\$343,287.21	\$20,079.49	\$770,299.57	\$1,069,448.81	\$1,859,827.86		\$2,203,115.08
17	\$227,215.20	\$126,370.53	\$353,585.83	\$20,732.05	\$795,391.09	\$1,099,215.03	\$1,915,338.17	\$0.00	\$2,268,924.00
18	\$234,031.65	\$130,161.75	\$364,193.41	\$21,405.95	\$821,2 9 9.51	\$1,129,823.75	\$1,972,529.20		\$2,336,722.61
19	\$241,052.60	\$134,066.50	\$375,119.21	\$22,101.53	\$848,051,40	\$1,161,299.58	\$2,031,452.51		\$2,406,571.72
20	\$248,284.18	\$138,088.60	\$386,372.78	\$22,819.89	\$875,674.23	\$1,193,667.11	\$2,092,161.23	\$0.00	\$2,478,534.01
Total	\$4,309,703.94	\$2,102,291.99	\$6,411,995.93	\$342,568.75	\$13,137,429.93				\$39,571,483.32

^{*}Utility Cost Avoidance figures in the table above are based on anticipated increases in unit energy costs as set forth in the table in Exhibit G section 3.2.5.

based on a mutually agreed fixed annual escalation rate of three percent (3%).

Project Savings are classified as measured benefits and non-measured benefits. Measured benefits are further classified by the M&V methodology selected; for this project, it is either option A or option C. Table 2 describes non-measured savings. Table 3 describes Option-A measured savings. Table 4 describes Option-C measured savings. The M&V plans for measured savings are included after Table 4.

^{***} Future Capital Cost Avoidance is a Non-Measured Project Benefit.
***Operations & Maintenance Cost Avoidance figures in the table above are

Change Table-2 on page 148 of 397 to the following:

ECM Tag	ECM Name	Year 1 Non- Measured Benefits (\$)	Description of Non-Measured Benefits
SH-1	Lighting Upgrades	\$13,600	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
SH-15	Electronic Filter Retrofit	\$59,500	There are material savings associated with filter replacement. The new filters have longer operating life.
SH-19	Parking Garage Lighting Retrofit	\$6,303	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
SH-20	Waste Management	\$35,000	There are material savings associated with a reduction in sharps containers by training hospital staff for maximizing sharps container capacity. Savings are also achieved through training by eliminating the improper disposal of reusable supplies.
SH-22	Demand Response	\$18,927	Revenue is realized through producing 2.6MW load during "demand reduction events" via utilizing back-up generators.
ÆM-1	Lighting Upgrades	\$1,289	There are material savings associated with a reduction in larnp and ballast costs. The new lamps and ballasts have longer operating life.
IFM-4	Domestic Water System Upgrades	\$4,477	Electric energy savings will be realized from reduced pumping energy by utilizing a Variable Speed Drive.
IFM-5	AHU Controls and Electronic Filter Upgrades	\$2,388	There are material savings associated with filter replacement. The new filters have longer operating life.
HB-1	Lighting Upgrades	\$4,263	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
HB-13	Domestic Water Booster VSD	\$7,951	Electric energy savings will be realized from reduced pumping energy by utilizing a Variable Speed Drive.
HB-16	Disal Duct VAV and Mixed Air Conversion	\$6,200	There are material savings associated with filter replacement. The new filters have longer operating life.
RRCC-1	Lighting Upgrades	\$1,108	There are material savings associated with a reduction in lamp and ballast costs. The new lamps and ballasts have longer operating life.
PRCC-2	Controls Upgrade and Electronic Filter Betrofit	\$5,692	There are material savings associated with filter replacement. The new filters have longer operating life.
	Total Year 1 Non- Measured Benefits	\$167,698.40	

The following is a summary of changes in scope that impacted savings:

 The only ECM savings that changed was RRCC-1. RRCC-1: Lighting Upgrade: Roomby-room audit was revised and exterior lighting was added to the scope of work

Change Option A Savings Table on Page 151 of 397 with the following:

ECM Tag	ECM Name	Year 1 Benefits (\$)	
SH-1	Lighting Upgrades	\$59,294	
SH-14	VAV Box Optimization	\$50,074	
SH-15	Electronic Filter Retrofit	\$141,299	
SH-19	Parking Garage Lighting Retrofit	\$41,343	
SH-20	Waste Management	\$65,000	
SH-26	Ventilation AHUs Improvement	\$16,755	
IFM-1	Lighting Upgrades	\$15,729	
HB-1	Lighting Upgrades	\$59,944	
HB-9	Controls and AHU Upgrades (Electric)	\$55,372	
HB-16	Dual Duct VAV and Mixed Air Conversion (Electric)	\$30,891	
RRCC-1	Lighting Upgrades	\$5,528	
	Total Year-1 Option-A Measured Savings	\$541,229	

The following is a summary of changes in scope that impacted savings:

- SH-20: Waste Management: The installation of the Autoclave sterilizer was removed from the scope of work
- HB-9: Controls and AHU Upgrades: AHU S-8 remains as a constant volume 100% Ventilation unit and is required to operate 24/7 for the laboratories that will remain on the 9th floor.
- HB-16: Dual Duct VAV and Mixed Air Conversion & New AHU: AHU S-8 remains as a constant volume 100% Ventilation unit for the laboratories that will remain on the 9th floor.
- RRCC-1: Lighting Upgrade: Room-by-room audit was revised because new light fixtures
 were recently installed under a separate contract for the building and exterior lighting was
 added to the scope of work

Change Option C Savings Table on Page 152 of 397 with the following:

Building	ECM Tag	ECM Name	Year 1 Option C Electric Benefits (\$)	Year 1 Option C Gas Benefits (\$)	Year 1 Option C Total Energy Benefits (\$)
Powerhouse	SH-13	Chiller Plant Optimization	\$223,135	\$0	\$223,135
Powerhouse	SH-23	Boiler Stack Condensing Economizer	-\$6,684	\$307,955	
	·	Total Year-1 Option-C			
Powerhouse	Powerhouse	Measured Savings	\$216,451	\$307,955	\$524,406
Institute of Forensic Medicine	IFM-2b	Chiller Replacement	-\$29,608		
Institute of Forensic Medicine	IFM-3	Boiler Replacement	\$0		
Institute of Forensic Medicine	IFM-5	AHU Controls and Electronic Filter Upgrades	\$23,525	\$9,94 1	
Institute of Forensic Medicine	IFM-7	Steam Traps and Misc Upgrades	\$0	\$3,304	\$3,304
Institute of Forensic Medicine	Institute of Forensic Medicine	Total Year-1 Option-C Measured Savings	-\$6,083	\$74,287	\$68,204
Hektoen Building	HB-9	Controls and AHU Upgrades (Gas)	\$0	\$30,986	
Hektoen Building	HB-16	Dual Duct VAV and Mixed Air Conversion (Gas)	\$0	\$14,666	\$14,666
Hektoeri Building	HB-18	Steam Traps and Misc Upgrades	\$0	\$13,563	\$13,563
Hektoen Building	Hektoen Building	Total Year-1 Option-C Measured Savings	\$0	\$59,215	\$59,215
Ruth Rothstein Core Center	RRCC-2	Controls Upgrade and Electronic Filter Retrofit	\$39,683	\$18,014	
Ruth Rothstein Core Center	Ruth Rothstein Core Center	Total Year-1 Option-C Measured Savings	\$39,683	\$18,014	\$57,697
Total Stroger Hospital Campus		Total Year-1 Option-C Measured Savings	\$250,051	\$459,471	\$709,521,60

The following is a summary of changes in scope that impacted savings:

- HB-9: Controls and AHU Upgrades: AHU S-8 remains as a constant volume 100% Ventilation unit and is required to operate 24/7
- HB-16: Dual Duct VAV and Mixed Air Conversion & New AHU: AHU S-8 remains as a constant volume 100% Ventilation unitHB-18: Steam Traps and Misc Upgrades: The "Steam Pressure Reduction" was removed from the scope of work as well as a reduction in steam trap savings due to infrastructure issues with the condensate return system. This was traded for other deferred maintenance work on the steam system to make it operational.

SH-20: Waste Management

On Page 171 of 397, Replace the paragraph under 2. "Energy Baseline Development" in its entirety with the following:

During the detailed audit Waste Component by Weight, Waste Handling, Disposal Cost, Waste Supplies and, Improperly Disposed Reusable items for the hospital along with waste sampling of various departments were taken to develop the baseline. Cook County personnel provided and or witnessed the waste sampling of various departments in hospital. The table below outlines the baseline data, obtained from the billing data for the 2011 calendar year, for the Regulated Medical Waste (RMW) used in our calculations:

2011 Summary o	of RMW Hauling	2011 Summary of Car	dboard Hauling Cost
MONTH	Weight (lbs.)	MONTH	Cost (\$)
January	95,866	January	\$3,485
February	68,402	February	\$3,217
March	99,737	March	\$3,435
April	84,871	April	\$3,690
May	88,562	May	\$3,217
June	86,981	June	\$3,485
July	90,716	July	\$3,485
August	98,041	August	\$4,621
September	83,969	September	\$3,485
October	85,593	October	\$3,485
November	77,284	November	\$3,485
December	73,495	December	\$3,485
TOTAL	1,033,517	TOTAL	\$42,575

Replace the proposed savings calculations under section 3. "Proposed Energy Savings Calculations and Methodology" in its entirety with the savings calculations listed below.

1. <u>Waste Segregation:</u> The savings are realized through routing a part of the general waste that was incorrectly disposed-of as regulated medical waste to the general waste stream.

RMW = pounds / year of Regulated Medical Waste

\$/GW = cost per pound of general waste

\$/RMW = pounds/year of regulated medical waste

GWINRMW = pounds/year of general waste in regulated medical waste stream

= RMW (Base) - RMW (Post)

Cost Savings = GWINRMW x (\$/RMW - \$/GW)

Measured Variables:

RMW (Post) will be measured annually.

Non-Measured variables, assumptions and stipulations:

S/GW = 0.097/lb

RMW = 0.197/lb

2. <u>General Waste Equipment:</u> The savings are realized by reducing the number of pulls/year (and hence costs) for waste haul off-site by installing an electronic communications package interfaced with Allied Disposal to maximize the capacity of the dumpsters.

NPULL_{pre} = Number of Pulls per year pre-retrofit. NPULL_{post} = Number of Pulls per year pre-retrofit.

 $\begin{aligned} & \text{Pre-Retrofit Costs} = \text{NPULL}_{\text{pre}} \text{ x } \$/\text{pull} \\ & \text{Post-Retrofit Costs} = \text{NPULL}_{\text{post}} \text{ x } \$/\text{pull} \end{aligned}$

Savings = Pre-Retrofit Costs - Post-Retrofit Costs = (NPULL_{pre} - NPULLpost) x \$/pull

Measured Variables:

NPULL_{post} will be measured annually.

Non-Measured variables, assumptions and stipulations:

NPULL $_{pre}$ = 6 visits/week x 52 weeks/year = 312 visits/year \$ / pull = \$268

3. <u>Cardboard Recycling:</u> The benefits are realized through the reduction in cardboard removal cost plus the revenue generated by selling cardboard to a recycler by utilizing the card-board baler that exists onsite.

ECHC = Existing Cardboard Hauling Cost
CR = tons/year of cardboard recycled
\$/CR = cost/ton of cardboard recycling
Pre Costs = ECHC
CR Revenue = CR x \$/CR
Savings = ECHC + (CR x \$/CR)

Measured Variables:
CR (Post) = tons/year of cardboard recycled annually
Non-Measured variables, assumptions and stipulations:
ECHC = \$42,575
\$/CR = \$30/ton

8. Changes to Exhibit M - Facility Operations and Maintenance Procedures Affected. On Page 241 of 397

SH-20: Waste Management

The following new equipment will require maintenance

- Autoclave The autoclave has been removed from the scope
- 9. Changes to Exhibit I Economic Disclosure Statement

Add the following supplemental changes to Exhibit O starting on page 256 of 397. The originals with executed signatures have been submitted to Contract Compliance;

Johnson Controls, Inc. 3007 Malmo Drive Arlington Heights, IL 60005 Tel.# (847)364-1500 Fax# (847)364-1536



Cook County 118 N. Clark Room 1020 Chicago, IL 60602 Attn: Sergio Silva

Subject: Stroger Hospital Campus Revised MBE Plan

Dear Sergio,

We have put together the following table to outline our revised MBE plan based on the replacement of the Vargas Mechanical contract.

Subcontractor	MWBE	Amount	Scope
Vargas	MBE	\$690,282.00	Shortfall Due to Vargas Contract
Dekayo	MBE	\$176,000.0 0	Autoclave
Dekayo	MBE	\$25,000.00	Utility Meters
PCS Solutions	MBE	\$60,000.00	Install VFDs
PCS Solutions	MBE	\$90,000.00	Heat Recovery Controls
PCS Indirect Participation	MBE	\$340,761.0 0	Projects with No MBE Requirements
Total		\$1,479.00	

PCS Solutions Indirect Participation Summary:	Amount
Packaging Corp.of America	\$119,400.00
111 W. Jackson	\$202,471.00
440 La Salle	\$18,890.00
Total	\$340,761.00

As you can see from the tables above approximately half of the gap is being made up by increasing our current MBE's contracts with additional direct participation. This is all we can find from a direct participation standpoint because the remaining work to be completed on the project is already very heavily committed to MBE firms. The remainder of the gap can be made up through indirect participation with PCS Solutions. PCS does work for us at many other jobsites and projects that do not require MBE participation. The table above shows three jobs that we would use as the basis for \$340,761 of indirect participation with PCS.

I have included a new LOI for indirect participation from PCS Solutions. I have also included their current certification. Thank you for your help in addressing this issue.

Sincerely,

Richard W. Smith

Branch General Manager Johnson Controls, Inc.

Johnson Controls, Inc. 3007 Malmo Drive Arlington Heights, IL 60005 Tel.# (847)364-1500 Fax# (847)364-1536



Cook County 118 N. Clark Room 1020 Chicago, IL 60602 Attn: Sergio Silva

Date: 12/12/2014

Subject: Stroger Hospital Campus Revised MBE Plan

Dear Sergio,

As you are aware Johnson Controls has been executing a \$26.5 million energy savings project at the Stroger Hospital Campus. Upon completion of the project the County will save over 20% of their energy usage at these facilities. As part of the project we have participation goals of MBE - \$6,360,571 and WBE - \$2,699,775 for a total of \$9,060,346. Due to the insolvency of Vargas Mechanical we have experienced a shortfall in of our MBE plan. Below is how we intend to mitigate the shortfall. Our original plan contained LOIs with Vargas Mechanical totaling \$1.9 million. We were only able to realize \$640,000 of participation with Vargas before they chose to no longer take on work. This left us with a gap of approximately \$1.3 million. We were able to redirect about \$600,000 worth of this to other MBEs and WBE's, putting us \$235,000 ahead on our WBE projections, but \$880,000 behind on our MBE projections. The bottom line is we need another \$560,000 on top of the original \$340,000 in indirect participation with PCS Solutions to bridge the gap of our MBE plan. We are therefore requesting to utilize an additional \$560,000 of indirect participation with PCS Solutions and below is the list of jobs we would utilize as our basis for that indirect participation.

Other Johnson Controls Projects with PCS as the Subcontractor - Indirect Participation

Subcontract	Subcontractor Name	Number	Job Name	Subcontract Amount	Invoiced
EPA3960751	<u>PCS</u>	4010-0470	111 W Jackson 16th Fl Central Server	\$1,375	\$1,375
EPA3889334	<u>PCS</u>	4010-0282	111 W Jackson ACG 22nd Floor	\$1,800	\$1,800
EPA4046082	<u>PCS</u>	<u>4010-0657</u>	111 W. Jackson 23rd Floor Workday	\$68,900	\$68,900
EPA4001932	<u>PCS</u>	401.0-0549	111 W. Jackson Extreme Reach Ste 1412	\$26,500	\$26,500
EPA4034214	<u>PCS</u>	4010-0633	111 W. Jackson Extreme Reach Ste 1412	\$6,300	\$6,300
S3849848	<u>PCS</u>	<u>3010-0679</u>	111 W. Jackson Kimley Horn Ste 770	\$9,750	\$9,750
S3849845	<u>PCS</u>	3010-0677	111 W. Jackson Morr Sharp Ste 1500	\$8,486	\$8,486
S3849844	<u>PCS</u>	3010-0658	111 W. Jackson Ste 800 CRS	\$14,990	\$14,990
EPA4035499	<u>PCS</u>	4010-0574	203 N Lasalle BAS Uprade	\$100,000	\$75,000
EPA4012811	<u>PCS</u>	4010-0615	205-225 NMA - 14th floor	\$79,984	\$79,984
EPA3927013	<u>PCS</u>	4010-0335	225 NMA - Hall & Partners	\$6,400	\$6,400
EPA4035523	<u>PCS</u>	4010-0622	225 NMA - HR Flow Stations	\$25,430	\$25,430
EPA4044832	PCS	4010-0674	225 NMA 19th Floor Omnicom	\$40,332	\$4,033
S3790486	<u>PCS</u>	3010-0461	Catherine Cook School - Addition	\$54,950	\$54,950
EPA3913143	<u>PCS</u>	4010-0290	SSA Cooling Loop Retrofit	\$53,917	\$53,917
S3815139	<u>PCS</u>	<u>3010-0559</u>	St. Tarcissus	\$170,580	\$170,580
EPA4062470	PCS	5010-0270	St. Tarcissus Church - Wiring	\$2,310	\$2,310
<u>Total</u>	and the triber		The state of the s	\$672,004	\$610,705

I have included a new LOI for indirect participation from PCS Solutions. I have also included their current certification. Thank you for your help in addressing this issue.

Sincerely,

Richard W. Smith Branch General Manager Johnson Controls, Inc.

MBE	Cook County Stroger H	lospital Camp	LIS - M AWRI	Utilization Plan		Corrent Contract Amount	Ann ans are as								1
Current contractor				17. 1	1 31 1 1 1 1	Anna Lin	\$26,497,854.00		WAE	i iyo tu a 1 iya s	144.55	i Silvenia Turk	i Prince and the	<u> </u>	<u>! </u>
Bonaparte Sistosto Common Service Serv		1		amountes of November 2014	through the end of the project	Project Projection%	Difference	* * * * * * * * * * * * * * * * * * *			Original %	Current contract	Current projection through the end	Current end of project	100
Somewhat	Suarez Electric	3524,634	19799%	\$597,142.00	5627,142.00	2.3668%	\$102,508.00	······································		\$705,800	2.6886%	\$618,151_79		2.3328%	-587,64
Contractors		\$180,857	0.6806%	\$0.00	\$0.00	0.00008	-\$180,357,00		Crane	\$27,500	0.1088%	\$56,598.00	556,398,00	-	
Universal Insulation \$44,200 0.51038 \$219,507.00 \$219,507.00 0.79488 \$20,698.00 All Tech \$707,965 2.57,896 \$874,577.00 \$974,577.00 \$877,57		\$1,319,266	4.9788%	\$1,266,931.00	\$1,255,931.00	4.7813%	-\$52,335.00			\$296,000	1,1171%	\$262,895.00		<u> </u>	
Vargas	Universal Insulation	\$241,200	0.9103%	\$210,507.00	\$210,507.00	0.794466	-\$30,693.00		All Tech	5707,965	2 6718%		7-3000	0.9921% 5.6779%	
Vargas										٠					
Applied Contracting & Controls		\$1,953,895	7.3719%	\$643,738.00	\$643,738,00	2,4294%	-\$1,909,657.00			\$340,000	12531%	\$875,776.00	\$975.775.0m	1 47740	\$35,776.
Code Engineering \$249,823 0.94289 \$667,850.50 \$667,860.50 \$2.5185% \$417,557.50 \$CT Mechanical \$315,000 \$1885% \$812,994.00 \$312,994.00 \$11815 \$119,950 0.4512% \$332,988.00 \$332,988.00 \$125,500.00 \$125	Controls			\$476,595.60	\$478,598.60	1.8062%	\$17,905.60		TAG	\$262,710	0.9914%		7-71-51-5		\$33,776 \$925.
PCS Solutions \$119,550 0.4512% \$332,938.00 \$332,938.00 1.2552% \$213,388.00	PACE	\$238,697	0.9008%	\$0.00	\$0.00	0.0000%	-\$288,697.00	•	Ardmore	\$25,000	0.0945%	\$85,958,00		0.1357%	\$10,958.
RID Resources \$12,500 0.0572% \$12,500.00 \$12,500.00 0.0472% \$0.00 \$12,500.00 \$12,000.00 \$12,500.00	Code Engineering	\$249,829	0.9428%	\$667,380.90	\$657,350.50	2.5189%	\$417,587.50		CT M echanical	\$315,000	11885%	\$812,954.00	\$372,954.00	11811%	-\$2,046.
Level-1 Global Solution \$90,000 0.1867% \$50,000.00 \$59,000.00 0.1887% \$0.00 \$2,699,775 10.188% \$2,985,591.79 11.07880 Enviroplus \$75,761 0.2859% \$64,866.88 \$664,866.88 0.2447% \$80,000 0.22749% \$18,000.00 0.	CS Solutions	\$119,550	0.4512%	\$332,938.00	\$332,938.00	1.2569%	\$213,388.00		J-MAC	\$19,800	0.0747%	\$35,247,00	\$35,247.00	0.1330%	\$15,447.
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	otal shortfall MBE	-\$880,538,59			: :	<u>.</u>			! }						
Total MW8E shortfall -\$844,721.85	otal overage WBE	\$235,815,73				;			†			- 			
Total MW86: strontfeld % -2.43315s				0 1				,,.,,,,,,	·						

ATTACHMENT B



TONI PRECKWINKLE

PRESIDENT

Cook County Board of Commissioners

RICHARD R. BOYKIN

1st District

ROBERT STEELE 2nd District

JERRY BUTLER 3rd District

STANLEY MOORE 4th District

DEBORAH SIMS 5th District

EDWARD M.MOODY 6th District

JESUS G. GARCIA 7th District

LUIS ARROYO, JR 8th District

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BRIDGET GAINER 10th District

JOHN P. DALEY 11th District

JOHN A. FRITCHEY 12th District

LARRY SUFFREDIN 13th District

GREGG GOSLIN
14th District

TIMOTHY O. SCHNEIDER

15th District

JEFFREY R. TOBOLSKI 16th District

> SEAN M. MORRISON 17th District

OFFICE OF CONTRACT COMPLIANCE

JACQUELINE GOMEZ

DIRECTOR

118 N. Clark, County Building, Room 1020 & Chicago, Illinois 60602 & (312) 603-5502

October 21, 2016

Ms. Shannon E. Andrews Chief Procurement Officer 118 N. Clark Street County Building-Room 1018 Chicago, IL 60602

Re: Contract No.: 12-60-350 (Amendment No. 2)
Guarantee Energy Performance Contract
For Cook County Hospital and Health Care Facilities
Office of Capital Planning and

Dear Ms. Andrews:

The Office of Contract Compliance is in receipt of the above-referenced contract amendment and has reviewed this contract for compliance with the Minority- and Women- owned Business Enterprises (MBE/WBE) Ordinance. After careful review of our records as reported by the vendor, it has been determined the vendor is in compliance with the MBE/WBE Ordinance.

Sincerely,

Jacqueline Gomez
Contract Compliance Director
JG/smp

Cc: Cho Ng, OCPO
Elaine Lockwood-Bean, OCPP

MBEWBE UTILIZATION PLAN - FORM 1

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions – Section 19.

L	BIDDER	IPROPOSER MBE/IWBE STATUS: (check the appropriate line)
		Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of current Letter of Certification)
		Bidden/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If so, attach copies of Letter(s) of Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the Joint Venture and a completed Joint Venture Affidavit — available online at www.cookcountyli.gov/contractcompliance)
	<u>x</u>	Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will utilize MBE and WBE firms either directly or indirectly in the performance of the Contract. (If so, complete Sections II below and the Letter(s) of Intent — Form 2).
И.		Direct Participation of MBE/WBE Firms X Indirect Participation of MBE/WBE Firms
achieve	Direct P	als have not been achieved through direct participation, Bidder/Proposer shall include documentation outlining efforts to articipation at the time of Bid/Proposal submission. Indirect Participation will only be considered after all efforts to articipation have been exhausted. Only after written documentation of Good Faith Efforts is received will indirect considered.
	MBEs/W	BEs that will perform as subcontractors/suppliers/consultants include the following:
		MBEWBEFim: PCS Power & Communications Solutions, Inc.
÷.		Address: 279 E. Helen Road, Palatine, IL 60067
		Email: italia@pcssolutions.com
	-	Contact Person: Edwardo del Castillophone: (847)358-8900
		Dollar Amount Participation: \$ \$340,761 + \$560,000 = \$900,791
		Percent Amount of Participation: 1.3 + 2.1 = 3.4 %
		*Letter of Intent attached? Yes X No *Current Letter of Certification attached? Yes X No
		MBE/WBE Firm:
		Address:
		E-mail:
		Contact Person: Phone:
		Dollar Amount Participation: \$
		Percent Amount of Participation:
٠.	1	*Letter of Inlent altached? Yes No
	,	Attach additional sheets as needed,
	•	Letter(s) of intent and current Letters of Certification <u>must</u> be submitted at the time of bid.

M/WBE Utilization Plan - Form 1

Revised: 01/29/2014

MBE/WBE LETTER OF INTENT - FORM 2

MWBEFim: PCS Solutions, Inc.	Carlifying Agency: Cook County
Conlact Person: Edwardo del Castillo	Certification Expiration Date: 1/23/2015
Address: 279 E. Helen Road	Elhnlowy; Hispanic
Chy/State: Palatine, IL Zhr. 60067	Bid/Proposal/Confract#: 08-50-1068P
Phone: (847)358-8900Fax; (847)358-77	
Email italia@possolutions.com	
Participation: [] Direct [X] Indirect	
Will the M/WBE tirm be subcontracting any of the goods or se	rylcas of this contract to another firm?
[X] No []Yes Please allach explanation. Proposed S	
•	Commodifies/Services for the above named Project/ Contract: (If ne of work antior payment sahedule, allach additional sheets)
indicate the <u>Dollar Amount</u> , <u>Percentage</u> , and the <u>Terms of P</u> : \$560,000 Progress Payments bas	
with, whichever upon (1) the baudent-toposers receipt of Subsontiactor remaining compliant with all relevant cradentia County, and the State to participate as a MHE/WHE flow for it	lent will become a binding Subcontract Agreement for the above i a signed contract from the County of Cook; (2) Undersigned ils, codes, ordinances and statutes required by Contractor, Cook he above work. The Undersigned Parties do also certify that they for Description of Service/ Supply and Fee/Cost were completed.
Signature (KVWBE)	Signature (<i>Prime Bidder/Proposer</i>)
Edwardo del Castillo	Richard W Smith
Pini Name PCS Power &	Print Name
Communications Solutions, Inc	Johnson Controls Inc.
12-11-14	
)ale	Date
abscribed and sworn before me	Subscribed and sworn before me
als 1 T day of Doc 2014	this day of, 20
iolary Public Shuas	NoIary Public
SEAL	SEAL
OFFICIAL SEAL TANYA LITALIA	38 &
NOTARY PUBLIC STATE OF ALLI	G-17 P
MANDE FORTGLOT IN COULT - SOLUMNY COMMISSION CO., US MEAN	Revised: 1/29/14

4830538.1

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: PCS Solutions, Inc. Contact Person: Edwardo del Castillo Address: 279 E. Helen Road City/State: Palatine, IL Zip: 60067 Phone: (847) 358-8900 Fax: (847) 358-7730 Email: italia@pcssolutions.com Participation: [] Direct [X] Indirect Will the M/WBE firm be subcontracting any of the goods or service [X] No [] Yes-Please attach explanation. Proposed Subcompose space is needed to fully describe M/WBE Firm's proposed scope of	es of this contract to another firm? ontractor(s):
Address: 279 E. Helen Road City/State: Palatine, IL Zip: 60067 Phone: (847) 358-8900 Fax: (847) 358-7730 Email: italia@pcssolutions.com Participation: [] Direct [X] Indirect Will the M/WBE firm be subcontracting any of the goods or service [X] No [] Yes - Please attach explanation. Proposed Subcontracting and M/WBE is prepared to provide the following Contracting space is needed to fully describe M/WBE Firm's proposed scope of	Ethnicity: Hispanic Bid/Proposal/Contract #: 08-50-1068P FEIN #: 04-3763137 es of this contract to another firm? ontractor(s):
City/State: Palatine, II Zip: 60067 Phone: (847) 358-8900 Fax: (847) 358-7730 Email: italia@pcssolutions.com Participation: [] Direct [X] Indirect Will the M/WBE firm be subcontracting any of the goods or service [X] No [] Yes-Please attach explanation. Proposed Subcontracting and M/WBE is prepared to provide the following Contracting space is needed to fully describe M/WBE Firm's proposed scope of	Ethnicity: Hispanic Bid/Proposal/Contract #: 08-50-1068P FEIN #: 04-3763137 es of this contract to another firm? ontractor(s):
Phone: (847) 358-8900 Fax: (847) 358-7730 Email: italia@pcssolutions.com Participation: [] Direct [X] Indirect Will the M/WBE firm be subcontracting any of the goods or service [X] No [] Yes - Please attach explanation. Proposed Subcomposed Subcomposed is needed to fully describe M/WBE Firm's proposed scope of	Bid/Proposal/Contract #: 08-50-1068P FEIN #: 04-3763137 es of this contract to another firm? ontractor(s):
Email: italia@pcssolutions.com Participation: [] Direct [X] Indirect Will the M/WBE firm be subcontracting any of the goods or service [X] No [] Yes – Please attach explanation. Proposed Subcommore space is needed to fully describe M/WBE Firm's proposed scope of	FEIN #: 04-3763137 es of this contract to another firm? ontractor(s):
Participation: [] Direct [X] Indirect Will the M/WBE firm be subcontracting any of the goods or service [X] No [] Yes – Please attach explanation. Proposed Subco The undersigned M/WBE is prepared to provide the following Commore space is needed to fully describe M/WBE Firm's proposed scope of	es of this contract to another firm? ontractor(s):
Will the M/WBE firm be subcontracting any of the goods or service [X] No [] Yes – Please attach explanation. Proposed Subco The undersigned M/WBE is prepared to provide the following Commore space is needed to fully describe M/WBE Firm's proposed scope of	ontractor(s):
[X] No [] Yes – Please attach explanation. Proposed Subcommore space is needed to fully describe M/WBE Firm's proposed scope of	ontractor(s):
The undersigned M/WBE is prepared to provide the following Con more space is needed to fully describe M/WBE Firm's proposed scope of	nmodifies/Services for the above named Project/ Contract. #
The undersigned M/WBE is prepared to provide the following Con more space is needed to fully describe M/WBE Firm's proposed scope of	nmodifies/Services for the above named Project/ Contract. #
	f Work and/or navment schedule, attach additional sheets)
Electrical Contracting Services	The state of payment controller, all and additional different
The state of the s	
Indicate the Dollar Amount, Percentage, and the Terms of Payr	
\$340,761 Progress Payments base	d on % of completion
THE UNDERSIGNED PARTIES AGREE that this Letter of Inten work, conditioned upon (1) the Bidder/Proposer's receipt of a Subcontractor remaining compliant with all relevant credentials, County, and the State to participate as a MBE/WBE firm for the did not affix their signatures to this document until all areas under-	signed contract from the County of Cook; (2) Undersigned codes, ordinances and statutes required by Contractor, Cocahove work. The Indersigned Parties to also certify that the
Signature (M/WBE)	Signature (Prime Bidder/Proposer)
Edwardo del Castillo	Richard W Smith
Print Name PCS Power &	Print Name
Communications Solutions, Inc	Johnson Controls Inc.
Firm Name	Firm Name
Date	4914
	Date
	Subscribed and sworn before me
this, 20	this day of while ap 14
Notary Public	Notary Public Med Will & Souls
39	OFFICIALSEAL

M/WBE Letter of Intent - Form 2

Revised: 1/29/14



TONI PRECKWINKLE

PRESIDENT Cook County Board of Commissioners

EARLEAN COLLINS 1st District

ROBERT STEELE 2nd District

JERRY BUTLER. 3rd District

STANLEY MOORE 4th District

DEBORAH SIMS 5th District

JOAN PATRICIA MURPHY 6th District

> JESUS G. GARCIA 7th District

EDWIN REYES 8th District

PETER N. SILVESTRI 9th District

BRIDGET GAINER 10th District

JOHN P. DALEY 11th District

JOHN A. FRITCHEY 12th District

LARRY SUFFREDIN 13th District

GREGG GOSLIN 14th District

TIMOTHY O. SCHNEIDER 15th District

JEFFREY R. TOBOLSKI 16th District

ELIZASETH ANN DOODY GORMAN 17th District

COUNTY OF COOK BUREAU OF FINANCE OFFICE OF CONTRACT COMPLIANCE JACQUELINE GOMEZ, DIRECTOR

118 N Clark, Room 1020 | Chicago, illinois 60602-1304 | Tel (312) 603-5502

January 23, 2014

Mr. Edward del Castillo, President PCS Power & Communications Inc. d/b/a Kel-Tech Electric Co. 279 E. Helen Road Palatine, IL 60067

Annual Certification Expires:

January 23, 2015

Dear Mr. Edward del Castillo:

Congratulations on your continued eligibility for Certification as a MBE by Cook County Government. This Certification is valid until January 23, 2015.

As a condition of continued Certification, you must file a "Re-Certification Affidavit" within sixty (60) business days prior to the Annual Certification Expiration date. Failure to file this Affidavit shall result in the termination of your Certification. You must notify Cook County's Office of Contract Compliance of any change in ownership or control or any other matters or facts affecting your firm's eligibility for Certification within fifteen (15) business days of such change.

Cook County Government may commence action to remove your firm as a certified firm if you fail to notify us of any changes of facts affecting your firm's Certification, or if your firm otherwise fails to cooperate with the County in any inquiry or investigation. Removal of your status may also be commenced if your firm is found to be involved in bidding or contractual irregularities.

Your firm's name will be listed in Cook County's Directory of certified firms in the following area(s) of specialty:

Construction: Electrical - HVAC Temperature Control Wiring, Electrical Installation

Your firm's participation on Cook County contracts will be credited toward MBE goals in your area(s) of specialty. While your participation on Cook County contracts is not limited to your specialty, credit toward MBE goals will be given only for work done in the specialty category.

Thank you for your continued Interest in Cook County Government's Minority, Women, Veteran, and Service-Disabled Veteran Business Enterprise Program.

Sincerely,

Jacquelihe Gomez

Contract Compliance Director JG/ek

💲 Fiscal Responsibility 🗣 Innovative Leadership 🌑 Transparency & Accountability 🛅 Improved Services

OCI	PO ONLY:
0	Disqualification
Ω	Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016	
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute:	All Tech Electrical
Authorized Contact Darryl Baker for Contractor:	Authorized Contact for Subcontractor/Supplier/ Subconsultant:	Kathy Esposito
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor):	Imorcin@alltechenergy.com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor):	4645 138th St
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor):	Crestwood, Illinois 60445
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax (Subcontractor)	708-293-1127
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> Services or Supplies
Electrical	\$622,209.00

Contractor	Johnson Controls	
Name	Darryl Baker	
Title	Operations Manager	
Prime Contra	actor Signature	Date 10/05/2016

<u>oci</u>	PO ONLY:	
Ω	Disqualification	
Ω	Check Complete	

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Applied Controls & Contracting added or substitute:
Authorized Contact Darryl Baker for Contractor:	Authorized Contact for Subcontractor/Supplier/ George Kinnison Subconsultant:
Email Address (Contractor): Darryl.Baker@jci.com	Email Address gkinnison@accshome.com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 539 W. Taft Dr.
City, State and Arlington Heights, IL 60005	City, State and Zip South Holland, IL 60473
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax 708-596-7400 (Subcontractor)
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
Electrical/Controls	\$478,837.96

Contractor	Johnson Controls				
Name	Darryl Baker				·
Title	Operations Manager		· ·	·····	
Prime Contr	actor Signature	 D	^{late} 10/0	5/2016	

O C F	PO ONLY:	
\bigcirc	Disqualification	
0_	Check Complete	

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Ardmore Associates added or substitute:
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Cheryl Thomas Subconsultant:
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): cthomas@ardmoreassociates.com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 33 N Dearborn St 1720
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Chicago, Illinois, 60602
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax 312-795-1400 (Subcontractor)
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies	
Project Administration	\$35,958.50	

Contractor	Johnson Controls		
Name	Darryl Baker		
Title	Operations Manager		
Prime Contr	actor Signature	 Date 10/05/2016	

9	(C)	PO ONLY:	
(2	Disqualification	
()	Check Complete	

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Code Engineering added or substitute:
Authorized Contact for Contractor. Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Sim Dawson Subconsultant:
Email Address (Contractor): Darryl.Baker@jci.com	Email Address code.sim@comcast.net
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 2021 Midwest Rd
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip Oakbrook, Illinois, 60523
Telephone and Fax (Contractor) 847/806-4451	Telephone and Fax 630/728-5314 (Subcontractor)
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> Services or Supplies
Electrical	\$667,360.50

Contractor	Johnson Controls	
Name	Darryl Baker	· .
Title	Operations Manager	
Prime Contra	actor Signature	Date 10/05/2016

OCI	PO ONLY:
$\overline{\Omega}$	Disqualification
Ô	Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be added or substitute: Controlled Environment Test & Balance
Authorized Contact Darryl Baker for Contractor:	Authorized Contact for Subcontractor/Supplier/ Sam Daou Subconsultant:
Email Address Darryl.Baker@jci.com (Contractor):	Email Address cetb59@hotmail.com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 1350 Remington Road U
City, State and Arlington Heights, IL 60005	City, State and Zip Schaumburg, Illinois, 60173
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax 847/490-8400 (Subcontractor)
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> <u>Services or Supplies</u>
Test & Balancing	\$247,006.00

Contractor	Johnson Controls	
Name	Darryl Baker	
Title	Operations Manager	
Prime Contr	actor Signature	Date 10/05/2016

OCPO ONLY:

O Disqualification
Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016	
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC	
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Environmental Research Associates added or substitute:	
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Jack Glezen Subconsultant:	
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): Jack@eresearchassoc.com	
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 6400 Gilbert Lake Rd.	
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Bloomfield Hills, MI 48301	
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax (Subcontractor) 248/594-8407	
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)	

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> <u>Services or Supplies</u>
Healthcare Environmental Consultant	\$168,400.00

Contractor	Johnson Controls		
Name	Darryl Baker		
Title	Operations Manager		
Prime Contri	actor Signature	Date 10/05/2016	3

<u>OCI</u>	PO ONLY:
Ω	Disqualification
Ω	Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Enviroplus added or substitute:
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Bob Garcia Subconsultant:
Email Address Darryl.Baker@jci.com (Contractor):	Email Address (Subcontractor): Bob@enviroplus-inc.com
Company Address 3007 Malmo Drive (Contractor):	Company Address 8044 Lawndale Avenue
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip Skokie, Illinois, 60076
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax 847/343-3051 (Subcontractor)
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
Hazardous Material Abatement	\$71,687.63

Contractor	Johnson Controls		
Name	Darryl Baker		
Title	Operations Manager		
Prime Contr	actor Signature	Date	10/05/2016

OCPO ONLY:
Disqualification
Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Evergreen Supply added or substitute:
Authorized Contact Darryl Baker for Contractor.	Authorized Contact for Subcontractor/Supplier/ Kelly Gallagher Subconsultant:
Email Address (Contractor): Darryl.Baker@jci.com	Email Address kgallagher@everlights.com
Company Address 3007 Malmo Drive (Contractor):	Company Address 9901 S. Torrence Ave.
City, State and Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Chicago, Illinois, 60617
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax 773/734-9873 (Subcontractor)
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> <u>Services or Supplies</u>
Lighting Supply	\$513,707.30

Contractor	Johnson Controls	
Name	Darryl Baker	
Title	Operations Manager	
Prime Contr	actor Signature	Date 10/05/2016

OCPO ONLY:	
O Disqualification	1
Check Comple	te

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date: 10/05/2016	· · · · · · · · · · · · · · · · · · ·
Total Bid or Proposa	Amount: \$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier Subconsultant to be added or substitute:	r/ H2O Technologies
Authorized Contact for Contractor.	Darryl Baker	Authorized Contact for Subcontractor/Supplier Subconsultant:	
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	cstillinger@h2oappliedtech.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	50 Federal St., 4th Fl
City, State and Zip (Contractor):	lington Heights, IL 60005	City, State and Zip (Subcontractor):	Boston, MA 02110
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor)	617/428-8600
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
Mechanical	\$193,083.84

Contractor	Johnson Controls	٠.		,
Name	Darryl Baker			
Title	Operations Manager			
Prime Contra	actor Signature		Date	10/05/2016

OCI	PO ONLY:	
	Disgualification	
Ω_{-}	Check Complete	

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Hill Mechanical added or substitute:
Authorized Contact Darryl Baker for Contractor:	Authorized Contact for Subcontractor/Supplier/ Dan Honeman Subconsultant:
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): dan.honeman@hillmech.com
Company Address 3007 Malmo Drive (Contractor):	Company Address 11045 Gage Ave.
City, State and Arlington Heights, IL 60005	City, State and Zip Franklin Park, IL 60131 (Subcontractor):
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax (Subcontractor) 847/451-5016
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> <u>Services or Supplies</u>
Mechanical	\$8,281,800.00

Contractor	Johnson Controls	•		,	
Name	Darryl Baker				
Title	Operations Manager		· · · · · · · · · · · · · · · · · · ·		
Prime Contr	actor Signature	:	Date	10/05/2016	

OC	PO ONLY:
$\overline{\Omega}$	Disqualification
$\overline{\Omega}$	Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date: 10/05/2016		
Total Bid or Proposal	Amount: \$26,497,854.00	Contract Title: CCHHS GEPC		
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be HTS Chicago added or substitute:		
Authorized Contact for Contractor.	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Robert McCabe Subconsultant:		
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor): robertm@htseng.com		
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor): 107 W. Willow Ave.		
City, State and Cip (Contractor):	lington Heights, IL 60005	City, State and Zip (Subcontractor): Wheaton, Illinois, 60187		
Felephone and Fax Contractor)	847/806-4451	Telephone and Fax 630/352-3693 (Subcontractor)		
Estimated Start and Completion Dates Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)		

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
Air Filter Supplier/Engineering	\$1,540,610.00

Contractor	Johnson Controls		
Name	Darryl Baker		
Title	Operations Manager		
Prime Contr	actor Signature	Date 1	0/05/2016

OCI	PO ONLY:	
Ω	Disqualification	
Õ	Check Complete	

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,85	64.00 Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Level 1 Solutions added or substitute:
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Thomas McElroy Subconsultant:
Email Address (Contractor): Darryl.Baker@jci.con	n Email Address (Subcontractor); tdm@level-1com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 10 N. Dearborn St., Suite 700
City, State and Zip (Contractor): Arlington Heights, IL 600	OO5 City, State and Zip Chicago, Illinois (Subcontractor):
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax 312/644-9400 (Subcontractor)
Estimated Start and Completion Dates (Contractor) Start and July 2012 - January 2	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
Information Technology	\$50,000.00

Contractor	Johnson Controls	
Name	Darryl Baker	
Title .	Operations Manager	·
Prime Contra	actor Signature	Date 10/05/2016

OCPO ONLY:
Disqualification
Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be PCS Solutions added or substitute:
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Edward Del Castillo Subconsultant:
Email Address (Contractor): Darryl.Baker@jci.com	Email Address (Subcontractor): itoliaepcsolutions.com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 1279 E. Helen Rd.
City, State and Zip (Contractor): Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Palatine, Illinois 60067
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax (Subcontractor) 847/358-8900
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> Services or Supplies
Electrical/Controls	\$ 900,791.00

Contractor	Johnson Controls	
Name	Darryl Baker	
Title	Operations Manager	
Prime Contr	actor Signature	Date 10/05/2016

OCPO ONLY:

Disqualification
Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Primera Engineering added or substitute:
Authorized Contact Darryl Baker for Contractor:	Authorized Contact for Subcontractor/Supplier/ Erin Inman Subconsultant:
Email Address Darryl.Baker@jci.com	Email Address (Subcontractor): einman@primeraeng.com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 100 S. Wacker Dr., Suite 700
City, State and Arlington Heights, IL 60005	City, State and Zip Chicago, Illinois 60606 (Subcontractor):
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax 312/606-0910 (Subcontractor)
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> <u>Services or Supplies</u>
Engineering	\$ 52,500.00

Contractor	Johnson Controls			
Name	Darryl Baker		,	
Title	Operations Manager			
Prime Contr	actor Signature	Date	10/05/2016	• .

OCPO ONLY:

 Disqualification
 Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date: 10/05/2016
Total Bid or Proposa	Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor:	Johnson Controls	Subcontractor/Supplier/ Subconsultant to be Regulatory Compliance Management added or substitute:
Authorized Contact for Contractor:	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Matt Solatka Subconsultant:
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor): msolatka@rcminc.com
Company Address (Contractor):	3007 Malmo Drive	Company Address (Subcontractor): 5400 East Ave.
City, State and Air Zip (Contractor):	lington Heights, IL 60005	City, State and Zip Countryside, Illinois 60525 (Subcontractor):
Telephone and Fax (Contractor)	847/806-4451	Telephone and Fax (Subcontractor) 708/978-1200
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> <u>Services or Supplies</u>
Environmental Remediation Monitoring	\$ 24,527.50

Contractor	Johnson Controls	
Name	Darryl Baker	
Title	Operations Manager	
Prime Contr	actor Signature	 Date 10/05/2016

OCPO ONLY:
O Disqualification
Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be RLD Resources added or substitute:
Authorized Contact for Contractor: Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Kelly Shelton Subconsultant:
Email Address Darryl.Baker@jci.com (Contractor):	Email Address (Subcontractor): kelly@shelton-solutions.com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 333 N. Michigan Ave., Suite 2800
City, State and Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Chicago, Illinois 60601
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax (Subcontractor) 312/795-0798
Estimated Start and Completion Dates	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies
Energy Star Analysis	\$ 12,500.00

Contractor	Johnson Controls	
Name	Darryl Baker	
Title	Operations Manager	
Prime Contractor Signature		Date 10/05/2016

OCI	PO ONLY:
$\overline{\Omega}$	Disqualification
	Check Complete

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:		Date: 10/05/2016	
Total Bid or Proposal Ar	mount: \$26,497,854.00	Contract Title:	CCHHS GEPC
Contractor: J	Johnson Controls	Subcontractor/Supplie Subconsultant to be added or substitute:	er/ Suarez Electric
Authorized Contact for Contractor.	Darryl Baker	Authorized Contact for Subcontractor/Supplier/ Dave Suarez Subconsultant:	
Email Address (Contractor):	Darryl.Baker@jci.com	Email Address (Subcontractor):	dsuarez@suarezelectric.com
Company Address 3 (Contractor):	3007 Malmo Drive	Company Address (Subcontractor):	4439 W. Montrose
City, State and Zip (Contractor):	gton Heights, IL 60005	City, State and Zip (Subcontractor):	Chicago, Illinois 60641
Telephone and Fax (Contractor)	347/806-4451	Telephone and Fax (Subcontractor)	773/202-9077
Estimated Start and Completion Dates (Contractor)	July 2012 - January 2015	Estimated Start and Completion Dates (Subcontractor)	July 2012 - January 2015

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	<u>Total Price of</u> <u>Subcontract for</u> Services or Supplies
Electrical/Lighting	\$ 635,680.00

Contractor	Johnson Controls	
Name	Darryl Baker	
Title	Operations Manager	
Prime Contr	actor Signature	Date 10/05/2016

OCPO ONLY:	
 Disqualification 	
○ Check Complete	

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.:	Date: 10/05/2016
Total Bid or Proposal Amount: \$26,497,854.00	Contract Title: CCHHS GEPC
Contractor: Johnson Controls	Subcontractor/Supplier/ Subconsultant to be TAG Properties added or substitute:
Authorized Contact Darryl Baker for Contractor:	Authorized Contact for Subcontractor/Supplier/ Angela Ford Subconsultant:
Email Address (Contractor): Darryl.Baker@jci.com	Email Address aford@thisistag.com
Company Address 3007 Malmo Drive (Contractor):	Company Address (Subcontractor): 1006 S. Michigan Ave., Suite 606
City, State and Arlington Heights, IL 60005	City, State and Zip (Subcontractor): Chicago, Illinois
Telephone and Fax 847/806-4451 (Contractor)	Telephone and Fax (Subcontractor) 312/447-0400
Estimated Start and Completion Dates July 2012 - January 2015 (Contractor)	Estimated Start and Completion Dates July 2012 - January 2015 (Subcontractor)

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	Total Price of Subcontract for Services or Supplies	
Sustainability Services	\$ 263,635.00	

Contractor	Johnson Controls	
Name	Darryl Baker	
Title	Operations Manager	
Prime Contra	actor Signature	Date 10/05/2016

MBE/WBE UTILIZATION PLAN - FORM 1

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions - Section 19.

*	BIDDER/PROPOSER MBE/WBE STATUS: (check the appropriate line)	
	Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of current Letter of Certification)	· · · · · · · · · · · · · · · · · · ·
	Bidder/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If s Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its Venture and a completed Joint Venture Affidavit – available online at www.cookcountyil.gov/confractcompliance)	ownership interest in the Joint
	Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will util directly or indirectly in the performance of the Contract. (If so, complete Sections II below and the Letter(s) of Interest.	ze MBE and WBE firms either ent – Form 2).
i. ·	Direct Participation of MBE/WBE Firms Indirect Participation of MBE/WBE Firms	
achieve achieve	Where goals have not been achieved through direct participation, Bidder/Proposer shall include docume Direct Participation at the time of Bid/Proposal submission. Indirect Participation will only be cons Direct Participation have been exhausted. Only after written documentation of Good Faith Efforts ation be considered.	idered after all efforts to
	MBEs/WBEs that will perform as subcontractors/suppliers/consultants include the following:	
	MBE/WBE Firm: See Pages 39 through Pages 42	· •
	Address:	_
	_{E-mail:} Darryl.baker@jci.com	- -
	Contact Person: Phone:	· -
	Dollar Amount Participation: \$	
	Percent Amount of Participation:	
	*Letter of Intent attached? Yes No *Current Letter of Certification attached? Yes No	
	MBE/WBE Firm:	
•	Address:	•
÷	E-mail: see attached Delegation of Authority	 .
	Contact Person: Phone:	<u>-</u>
	Dollar Amount Participation: \$	
	Percent Amount of Participation:	
	*Letter of Intent attached? Yes No *Current Letter of Certification attached? Yes No	
	Attach additional sheets as needed.	

* Letter(s) of Intent and current Letters of Certification must be submitted at the time of bid.

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: See Pages 39 through Pages 42	Certifying Agency:		
Contact Person:	Certification Expiration Date: Ethnicity:		
Address:			
City/State:Zip:			
Phone: Fax:	FEIN#: 39-038-0010		
Email: Darryl.baker@jci.com			
Participation: Direct Indirect			
Will the M/WBE firm be subcontracting any of the goods or serv	vices of this contract to another firm?		
·	ocontractor(s):		
more space is needed to fully describe M/WBE Firm's proposed scope	o, mont analor paymont schedule, attach additional sheets)		
Indicate the Dollar Amount , Percentage , and the Terms of Pa	ayment for the above-described Commodities/ Services:		
work, conditioned upon (1) the Bidder/Proposer's receipt of Subcontractor remaining compliant with all relevant credential County, and the State to participate as a MBE/WBE firm for the	tent will become a binding Subcontract Agreement for the above a signed contract from the County of Cook; (2) Undersigned is, codes, ordinances and statutes required by Contractor, Cookie above work. The Undersigned Parties do also certify that the er Description of Service/ Supply and Fee/Cost were completed.		
Signature (<i>M/WBE</i>)	Signature (Prime Bidder/Proposer)		
Print Name	Print Name		
Firm Name	Firm Name		
October 13, 2016	October 13, 2016		
Date	Date		
Subscribed and sworn before me	Subscribed and sworn before me		
this day of, 20	this day of, 20		
Notary Public	Notary Public		
SEAL	SEAL		

M/WBE Letter of Intent - Form 2

Revised: 1/29/14

PETITION FOR REDUCTION/WAIVER OF MBE/WBE PARTICIPATION - FORM 3

A. BIDDER/PROPOSER HEREBY REQUESTS:
FULL MBE WAIVER FULL WBE WAIVER
REDUCTION (PARTIAL MBE and/or WBE PARTICIPATION)
% of Reduction for MBE Participation% of Reduction for WBE Participation
B. REASON FOR FULL/REDUCTION WAIVER REQUEST
Bidder/Proposer shall check each item applicable to its reason for a waiver request. Additionally, supporting documentation shall be submitted with this request.
(1) Lack of sufficient qualified MBEs and/or WBEs capable of providing the goods or services required by the contract. (Please explain)
(2) The specifications and necessary requirements for performing the contract make it impossible or economically infeasible to divide the contract to enable the contractor to utilize MBEs and/or WBEs in accordance with the applicable participation. (Please explain)
(3) Price(s) quoted by potential MBEs and/or WBEs are above competitive levels and increase cost of doing business and would make acceptance of such MBE and/or WBE bid economically impracticable, taking into consideration the percentage of total contract price represented by such MBE and/or WBE bid. (Please explain)
(4) There are other relevant factors making it impossible or economically infeasible to utilize MBE and/or WBE firms. (Please explain)
C. GOOD FAITH EFFORTS TO OBTAIN MBE/WBE PARTICIPATION
(1) Made timely written solicitation to identified MBEs and WBEs for utilization of goods and/or services; and provided MBEs and WBEs with a timely opportunity to review and obtain relevant specifications, terms and conditions of the proposal to enable MBEs and WBEs to prepare an informed response to solicitation. (Attach of copy written solicitations made)
(2) Used the services and assistance of the Office of Contract Compliance staff. (Please explain)
(3) Timely notified and used the services and assistance of community, minority and women business organizations. (Attach of copy written solicitations made)
(4) Followed up on initial solicitation of MBEs and WBEs to determine if firms are interested in doing business. (Attach supporting documentation)
(5) Engaged MBEs & WBEs for direct/indirect participation. (Please explain)
B ATUED BELMIANT INFORMATION

D. OTHER RELEVANT INFORMATION

Attach any other documentation relative to Good Faith Efforts in complying with MBE/WBE participation.

COOK COUNTY ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT INDEX

Section	Description	Pages
1	Instructions for Completion of EDS	EDS i - ii
2	Certifications	EDS 1-2
3	Economic and Other Disclosures, Affidavit of Child Support Obligations, Disclosure of Ownership Interest and Familial Relationship Disclosure Form	EDS 3 – 12
4	Cook County Affidavit for Wage Theft Ordinance	EDS 13-14
5	Contract and EDS Execution Page	EDS 15-17
6	Cook County Signature Page	EDS 18

SECTION 1 INSTRUCTIONS FOR COMPLETION OF ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT

This Economic Disclosure Statement and Execution Document ("EDS") is to be completed and executed by every Bidder on a County contract, every Proposer responding to a Request for Proposals, and every Respondent responding to a Request for Qualifications, and others as required by the Chief Procurement Officer. The execution of the EDS shall serve as the execution of a contract awarded by the County. The Chief Procurement Officer reserves the right to request that the Bidder or Proposer, or Respondent provide an updated EDS on an annual basis.

Definitions. Terms used in this EDS and not otherwise defined herein shall have the meanings given to such terms in the Instructions to Bidders, General Conditions, Request for Proposals, Request for Qualifications, as applicable.

Affiliate means a person that directly or indirectly through one or more intermediaries, Controls is Controlled by, or is under common Control with the Person specified.

Applicant means a person who executes this EDS.

Bidder means any person who submits a Bid.

Code means the Code of Ordinances, Cook County, Illinois available on municode.com.

Contract shall include any written document to make Procurements by or on behalf of Cook County.

Contractor or Contracting Party means a person that enters into a Contract with the County.

Control means the unfettered authority to directly or indirectly manage governance, administration, work, and all other aspects of a business.

EDS means this complete Economic Disclosure Statement and Execution Document, including all sections listed in the Index and any attachments.

Joint Venture means an association of two or more Persons proposing to perform a forprofit business enterprise. Joint Ventures must have an agreement in writing specifying the terms and conditions of the relationship between the partners and their relationship and respective responsibility for the Contract

Lobby or lobbying means to, for compensation, attempt to influence a County official or County employee with respect to any County matter.

Lobbyist means any person who lobbies.

Person or Persons means any individual, corporation, partnership, Joint Venture, trust, association, Limited Liability Company, sole proprietorship or other legal entity.

Prohibited Acts means any of the actions or occurrences which form the basis for disqualification under the Code, or under the Certifications hereinafter set forth.

Proposal means a response to an RFP.

Proposer means a person submitting a Proposal.

Response means response to an RFQ.

Respondent means a person responding to an RFQ.

RFP means a Request for Proposals issued pursuant to this Procurement Code.

RFQ means a Request for Qualifications issued to obtain the qualifications of interested parties.

INSTRUCTIONS FOR COMPLETION OF ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT

Section 1: Instructions. Section 1 sets forth the instructions for completing and executing this EDS.

Section 2: Certifications. Section 2 sets forth certifications that are required for contracting parties under the Code and other applicable laws. Execution of this EDS constitutes a warranty that all the statements and certifications contained, and all the facts stated, in the Certifications are true, correct and complete as of the date of execution.

Section 3: Economic and Other Disclosures Statement. Section 3 is the County's required Economic and Other Disclosures Statement form. Execution of this EDS constitutes a warranty that all the information provided in the EDS is true, correct and complete as of the date of execution, and binds the Applicant to the warranties, representations, agreements and acknowledgements contained therein.

Required Updates. The Applicant is required to keep all information provided in this EDS current and accurate. In the event of any change in the information provided, including but not limited to any change which would render inaccurate or incomplete any certification or statement made in this EDS, the Applicant shall supplement this EDS up to the time the County takes action, by filing an amended EDS or such other documentation as is required.

Additional Information. The County's Governmental Ethics and Campaign Financing Ordinances impose certain duties and obligations on persons or entities seeking County contracts, work, business, or transactions, and the Applicant is expected to comply fully with these ordinances. For further information please contact the Director of Ethics at (312) 603-4304 (69 W. Washington St. Suite 3040, Chicago, IL 60602) or visit the web-site at cookcountyil.gov/ethics-board-of.

Authorized Signers of Contract and EDS Execution Page. If the Applicant is a corporation, the President and Secretary must execute the EDS. In the event that this EDS is executed by someone other than the President, attach hereto a certified copy of that section of the Corporate By-Laws or other authorization by the Corporation, satisfactory to the County that permits the person to execute EDS for said corporation. If the corporation is not registered in the State of Illinois, a copy of the Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

If the Applicant is a partnership or joint venture, all partners or joint venturers must execute the EDS, unless one partner or joint venture has been authorized to sign for the partnership or joint venture, in which case, the partnership agreement, resolution or evidence of such authority satisfactory to the Office of the Chief Procurement Officer must be submitted with this Signature Page.

If the Applicant is a member-managed LLC all members must execute the EDS, unless otherwise provided in the operating agreement, resolution or other corporate documents. If the Applicant is a manager-managed LLC, the manager(s) must execute the EDS. The Applicant must attach either a certified copy of the operating agreement, resolution or other authorization, satisfactory to the County, demonstrating such person has the authority to execute the EDS on behalf of the LLC. If the LLC is not registered in the State of Illinois, a copy of a current Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

If the Applicant is a Sole Proprietorship, the sole proprietor must execute the EDS.

A "Partnership" "Joint Venture" or "Sole Proprietorship" operating under an Assumed Name must be registered with the Illinois county in which it is located, as provided in 805 ILCS 405 (2012), and documentation evidencing registration must be submitted with the EDS.

Effective October 1, 2016 all foreign corporations and LLCs must be registered with the Illinois Secretary of State's Office unless a statutory exemption applies to the applicant. Applicants who are exempt from registering must provide a written statement explaining why they are exempt from registering as a foreign entity with the Illinois Secretary of State's Office.

SECTION 2

CERTIFICATIONS

THE FOLLOWING CERTIFICATIONS ARE MADE PURSUANT TO STATE LAW AND THE CODE. THE APPLICANT IS CAUTIONED TO CAREFULLY READ THESE CERTIFICATIONS PRIOR TO SIGNING THE SIGNATURE PAGE. SIGNING THE SIGNATURE PAGE SHALL CONSTITUTE A WARRANTY BY THE APPLICANT THAT ALL THE STATEMENTS, CERTIFICATIONS AND INFORMATION SET FORTH WITHIN THESE CERTIFICATIONS ARE TRUE, COMPLETE AND CORRECT AS OF THE DATE THE SIGNATURE PAGE IS SIGNED. THE APPLICANT IS NOTIFIED THAT IF THE COUNTY LEARNS THAT ANY OF THE FOLLOWING CERTIFICATIONS WERE FALSELY MADE, THAT ANY CONTRACT ENTERED INTO WITH THE APPLICANT SHALL BE SUBJECT TO TERMINATION.

A. PERSONS AND ENTITIES SUBJECT TO DISQUALIFICATION

No person or business entity shall be awarded a contract or sub-contract, for a period of five (5) years from the date of conviction or entry of a plea or admission of guilt, civil or criminal, if that person or business entity:

- Has been convicted of an act committed, within the State of Illinois, of bribery or attempting to bribe an officer or employee of a unit of state, federal or local government or school district in the State of Illinois in that officer's or employee's official capacity;
- 2) Has been convicted by federal, state or local government of an act of bid-rigging or attempting to rig bids as defined in the Sherman Anti-Trust Act and Clayton Act. Act. 15 U.S.C. Section 1 *et seq.*;
- 3) Has been convicted of bid-rigging or attempting to rig bids under the laws of federal, state or local government:
- 4) Has been convicted of an act committed, within the State, of price-fixing or attempting to fix prices as defined by the Sherman Anti-Trust Act and the Clayton Act. 15 U.S.C. Section 1, et seq.:
- 5) Has been convicted of price-fixing or attempting to fix prices under the laws the State;
- 6) Has been convicted of defrauding or attempting to defraud any unit of state or local government or school district within the State of Illinois;
- 7) Has made an admission of guilt of such conduct as set forth in subsections (1) through (6) above which admission is a matter of record, whether or not such person or business entity was subject to prosecution for the offense or offenses admitted to; or
- 8) Has entered a plea of *nolo contendere* to charge of bribery, price-fixing, bid-rigging, or fraud, as set forth in sub-paragraphs (1) through (6) above.

In the case of bribery or attempting to bribe, a business entity may not be awarded a contract if an official, agent or employee of such business entity committed the Prohibited Act on behalf of the business entity and pursuant to the direction or authorization of an officer, director or other responsible official of the business entity, and such Prohibited Act occurred within three years prior to the award of the contract. In addition, a business entity shall be disqualified if an owner, partner or shareholder controlling, directly or indirectly, 20% or more of the business entity, or an officer of the business entity has performed any Prohibited Act within five years prior to the award of the Contract.

THE APPLICANT HEREBY CERTIFIES THAT: The Applicant has read the provisions of Section A, Persons and Entities Subject to Disqualification, that the Applicant has not committed any Prohibited Act set forth in Section A, and that award of the Contract to the Applicant would not violate the provisions of such Section or of the Code.

B. BID-RIGGING OR BID ROTATING

THE APPLICANT HEREBY CERTIFIES THAT: In accordance with 720 ILCS 5/33 E-11, neither the Applicant nor any Affiliated Entity is barred from award of this Contract as a result of a conviction for the violation of State laws prohibiting bid-rigging or bid rotating.

C. DRUG FREE WORKPLACE ACT

THE APPLICANT HEREBY CERTIFIES THAT: The Applicant will provide a drug free workplace, as required by (30 ILCS 580/3).

D. DELINQUENCY IN PAYMENT OF TAXES

THE APPLICANT HEREBY CERTIFIES THAT: The Applicant is not an owner or a party responsible for the payment of any tax or fee administered by Cook County, such as bar award of a contract or subcontract pursuant to the Code, Chapter 34, Section 34-171.

E. HUMAN RIGHTS ORDINANCE

No person who is a party to a contract with Cook County ("County") shall engage in unlawful discrimination or sexual harassment against any individual in the terms or conditions of employment, credit, public accommodations, housing, or provision of County facilities, services or programs (Code Chapter 42, Section 42-30 et seq.).

F. ILLINOIS HUMAN RIGHTS ACT

THE APPLICANT HEREBY CERTIFIES THAT: It is in compliance with the Illinois Human Rights Act (775 ILCS 5/2-105), and agrees to abide by the requirements of the Act as part of its contractual obligations.

G. INSPECTOR GENERAL (COOK COUNTY CODE, CHAPTER 34, SECTION 34-174 and Section 34-250)

The Applicant has not willfully failed to cooperate in an investigation by the Cook County Independent Inspector General or to report to the Independent Inspector General any and all information concerning conduct which they know to involve corruption, or other criminal activity, by another county employee or official, which concerns his or her office of employment or County related transaction.

The Applicant has reported directly and without any undue delay any suspected or known fraudulent activity in the County's Procurement process to the Office of the Cook County Inspector General.

H. CAMPAIGN CONTRIBUTIONS (COOK COUNTY CODE, CHAPTER 2, SECTION 2-585)

THE APPLICANT CERTIFIES THAT: It has read and shall comply with the Cook County's Ordinance concerning campaign contributions, which is codified at Chapter 2, Division 2, Subdivision II, Section 585, and can be read in its entirety at www.municode.com.

I. GIFT BAN, (COOK COUNTY CODE, CHAPTER 2, SECTION 2-574)

THE APPLICANT CERTIFIES THAT: It has read and shall comply with the Cook County's Ordinance concerning receiving and soliciting gifts and favors, which is codified at Chapter 2, Division 2, Subdivision II, Section 574, and can be read in its entirety at www.municode.com.

J. LIVING WAGE ORDINANCE PREFERENCE (COOK COUNTY CODE, CHAPTER 34, SECTION 34-160;

Unless expressly waived by the Cook County Board of Commissioners, the Code requires that a living wage must be paid to individuals employed by a Contractor which has a County Contract and by all subcontractors of such Contractor under a County Contract, throughout the duration of such County Contract. The amount of such living wage is annually by the Chief Financial Officer of the County, and shall be posted on the Chief Procurement Officer's website.

The term "Contract" as used in Section 4, I, of this EDS, specifically excludes contracts with the following:

- Not-For Profit Organizations (defined as a corporation having tax exempt status under Section 501(C)(3) of the United State Internal Revenue Code and recognized under the Illinois State not-for -profit law);
- 2) Community Development Block Grants;
- Cook County Works Department;
- Sheriff's Work Alternative Program; and
- 5) Department of Correction inmates.

SECTION 3

REQUIRED DISCLOSURES

1.	DISC	CLOSURE OF LOBBYIST CONTACTS
List all	persons	that have made lobbying contacts on your behalf with respect to this contract:
Name		Address
2.	LOCA	L BUSINESS PREFERENCE STATEMENT (CODE, CHAPTER 34, SECTION 34-230)
establis which e or more	shment employs e Persoi	means a Person, including a foreign corporation authorized to transact business in Illinois, having a bona fide located within the County at which it is transacting business on the date when a Bid is submitted to the County, and the majority of its regular, full-time work force within the County. A Joint Venture shall constitute a Local Business if one is that qualify as a "Local Business" hold interests totaling over 50 percent in the Joint Venture, even if the Joint Venture time of the Bid submittal, have such a bona fide establishment within the County. Is Applicant a "Local Business" as defined above? Yes: No:
	b)	If yes, list business addresses within Cook County: 850 West Jackson St., Suite 420, Chicago, IL 60607
		3007 Malmo Dr., Arlington Hts, IL 60005
		1500 Huntington Dr., Calumet City, IL 60409
	c)	Does Applicant employ the majority of its regular full-time workforce within Cook County? Yes: No:
3.	THE C	HILD SUPPORT ENFORCEMENT ORDINANCE (CODE, CHAPTER 34, SECTION 34-172)

Every Applicant for a County Privilege shall be in full compliance with any child support order before such Applicant is entitled to receive or renew a County Privilege. When delinquent child support exists, the County shall not issue or renew any County Privilege, and may revoke any County Privilege.

All Applicants are required to review the Cook County Affidavit of Child Support Obligations attached to this EDS (EDS-5) and complete the Affidavit, based on the instructions in the Affidavit.

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	 										÷
b)	т	he Applicant ov	vns no rea	l estate in C	Cook Cour	ıty.					· ·
		ERTIFICATIO									
- Applicant	is unable to c	CERTIFICATIO ertify to any of the explain below:				atements	s contained	l in this El	OS and no	ot expla	ined else
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Applicant	is unable to c	ertify to any of t				atements	s contained	l in this El	OS and no	ot expla	ìned else

If the letters, "NA", the word "None" or "No Response" appears above, or if the space is left blank, it will be conclusively presumed that the Applicant certified to all Certifications and other statements contained in this EDS.

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT

The Cook County Code of Ordinances (§2-610 *et seq.*) requires that any Applicant for any County Action must disclose information concerning ownership interests in the Applicant. This Disclosure of Ownership Interest Statement must be completed with all information current as of the date this Statement is signed. Furthermore, this Statement must be kept current, by filing an amended Statement, until such time as the County Board or County Agency shall take action on the application. The information contained in this Statement will be maintained in a database and made available for public viewing.

If you are asked to list names, but there are no applicable names to list, you must state NONE. An incomplete Statement will be returned and any action regarding this contract will be delayed. A failure to fully comply with the ordinance may result in the action taken by the County Board or County Agency being voided.

"Applicant" means any Entity or person making an application to the County for any County Action.

"County Action" means any action by a County Agency, a County Department, or the County Board regarding an ordinance or ordinance amendment, a County Board approval, or other County agency approval, with respect to contracts, leases, or sale or purchase of real estate.

"Person" "Entity" or "Legal Entity" means a sole proprietorship, corporation, partnership, association, business trust, estate, two or more persons having a joint or common interest, trustee of a land trust, other commercial or legal entity or any beneficiary or beneficiaries thereof.

This Disclosure of Ownership Interest Statement must be submitted by:

- 1. An Applicant for County Action and
- 2. A Person that holds stock or a beneficial interest in the Applicant <u>and</u> is listed on the Applicant's Statement (a "Holder") must file a Statement and complete #1 only under **Ownership Interest Declaration**.

Please print or type responses clearly and legibly. Add additional pages if needed, being careful to identify each portion of the form to which each additional page refers.

This Statement is being made by the [Applicant or [] Sto	ck/Beneficial Interest Holder
This Statement is an: [Identifying Information: Name Johnson Controls	Original Statement or [] Ame	ended Statement
D/B/A:	FEIN NO	39-038-0010
Street Address: 3007 Malmo Drive		
City: Arlington Heights	State: Illinois	Zip Code: 60005
Phone No.: 847/806-4451	Fax Number: 847/364/1536	Email: Darryl.baker@jci.com
Cook County Business Registration Number (Sole Proprietor, Joint Venture Partnershing Corporate File Number (if applicable): 00	p)	
Form of Legal Entity:	•	
Sole Proprietor Partn	ership 📝 Corporation	Trustee of Land Trust
Business Trust Estate	Association	Joint Venture
Other (describe)		

Ownership Interest Declaration:

Name		Address		Percentage Interest in Applicant/Holder	
		East 52nd Street, New		6.1%	
Capita	al Research Global Investor	s, 333 South hope S	t., Los Angles,CA 90071	7.7%	
			· · · · · · · · · · · · · · · · · · ·		
2.	If the interest of any Person address of the principal on w	isted in (1) above is held hose behalf the interest	l as an agent or agents, or a is held.	a nominee or nominees, list the name and	
Name	of Agent/Nominee	Name of Principa	al	Principal's Address	
			,		
3.	Is the Applicant constructivel			[]Yes [🗸]No	
	If yes, state the name, addre control is being or may be ex	ss and percentage of be ercised.	neficial interest of such per	son, and the relationship under which suc	h
Name	Address		Percentage of Beneficial Interest	Relationship	
Corpoi	rate Officers, Members and F	artners Information:			
For all address	corporations, list the names, ac ses for all members. For all pa	ldresses, and terms for a rtnerships and joint vent	all corporate officers. For al ures, list the names, addre	l limited liability companies, list the names sees, for each partner or joint venture.	1
Name	Address		Title (specify title of Office, or whether managor partner/joint venture)	Term of Office er	
·					
			, T.A		
Declar	ration (check the applicable l	pox):			
	I state under oath that the Ap any information, data or plar Agency action.	pplicant has withheld no as to the intended use	disclosure as to ownership or purpose for which the Ap	interest in the Applicant nor reserved oplicant seeks County Board or other Cou	ıty
	I state under oath that the Hobe disclosed.	older has withheld no dis	closure as to ownership int	erest nor reserved any information require	d to

List the name(s), address, and percent ownership of each Person having a legal or beneficial interest (including ownership) of more than five percent (5%) in the Applicant/Holder.

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT SIGNATURE PAGE

Richard W. Smith Name of Authorized Applicant/Holder Representative (please print or type)

Signature

Richard.W.Smith@jci.com

E-mail address

Branch General Manager

Title

October 13, 2016

Date

847 545 5631

Phone Number

My commission expires:



COOK COUNTY BOARD OF ETHICS

69 W. WASHINGTON STREET, SUITE 3040 CHICAGO, ILLINOIS 60602 312/603-4304 Office 312/603-9988 Fax

FAMILIAL RELATIONSHIP DISCLOSURE PROVISION

Nepotism Disclosure Requirement:

Doing a significant amount of business with the County requires that you disclose to the Board of Ethics the existence of any familial relationships with any County employee or any person holding elective office in the State of Illinois, the County, or in any municipality within the County. The Ethics Ordinance defines a significant amount of business for the purpose of this disclosure requirement as more than \$25,000 in aggregate County leases, contracts, purchases or sales in any calendar year.

If you are unsure of whether the business you do with the County or a County agency will cross this threshold, err on the side of caution by completing the attached familial disclosure form because, among other potential penalties, any person found guilty of failing to make a required disclosure or knowingly filing a false, misleading, or incomplete disclosure will be prohibited from doing any business with the County for a period of three years. The required disclosure should be filed with the Board of Ethics by January 1 of each calendar year in which you are doing business with the County and again with each bid/proposal/quotation to do business with Cook County. The Board of Ethics may assess a late filing fee of \$100 per day after an initial 30-day grace period.

The person that is doing business with the County must disclose his or her familial relationships. If the person on the County lease or contract or purchasing from or selling to the County is a business entity, then the business entity must disclose the familial relationships of the individuals who are and, during the year prior to doing business with the County, were:

- its board of directors,
- its officers,
- its employees or independent contractors responsible for the general administration of the entity,
- its agents authorized to execute documents on behalf of the entity, and
- its employees who directly engage or engaged in doing work with the County on behalf of the entity.

Do not hesitate to contact the Board of Ethics at (312) 603-4304 for assistance in determining the scope of any required familial relationship disclosure.

Additional Definitions:

"Familial relationship" means a County or municipal official, or a	person who is a spouse, domestic pa ny person who is related to such an em	rtner or civil union partner of a County emplo ployee or official, whether by blood, marriage or	yee or State
a:	•	ray or	. adopuon, a
☐ Parent ☐ Child ☐ Brother ☐ Sister ☐ Aunt ☐ Uncle ☐ Niece ☐ Nephew	Grandparent Grandchild Father in-law Mother in-law Som in-law Daughter in-law Brother in-law Sister-in-law	Stepfather Stepmother Stepson Stepdaughter Stepbrother Stepsister Halfbrother Halfsister	

COOK COUNTY BOARD OF ETHICS FAMILIAL RELATIONSHIP DISCLOSURE FORM

A.	PERSON DOING OR SEEKING TO DO BUSINESS WITH THE COUNTY
	Name of Person Doing Business with the County: Johnson Controls
	Address of Person Doing Business with the County: 3007 Malmo Drive, Arlington Hts., IL 60005
	Phone number of Person Doing Business with the County:
	Email address of Person Doing Business with the County:
	If Person Doing Business with the County is a Business Entity, provide the name, title and contact information for the individual completing this disclosure on behalf of the Person Doing Business with the County:
	Darryl Baker, Operations Manager
B.	DESCRIPTION OF BUSINESS WITH THE COUNTY Append additional pages as needed and for each County lease, contract, purchase or sale sought and/or obtained during the calendar year of this disclosure (or the proceeding calendar year if disclosure is made on January 1), identify:
	The lease number, contract number, purchase order number, request for proposal number and/or request for qualification number associated with the business you are doing or seeking to do with the County: PO 186629-000-OP, Project 1260350
	The aggregate dollar value of the business you are doing or seeking to do with the County: \$\frac{26,497,854.00}{26,497,854.00} The name, title and contact information for the County official(s) or employee(s) involved in negotiating the business you are doing or seeking to do with the County: Richard W. Smith, Branch General Manager
	The name, title and contact information for the County official(s) or employee(s) involved in managing the business you are doing or seeking to do with the County: Darryl Baker, Operation Manager
C.	DISCLOSURE OF FAMILIAL RELATIONSHIPS WITH COUNTY EMPLOYEES OR STATE, COUNTY OR MUNICIPAL ELECTED OFFICIALS
	Check the box that applies and provide related information where needed
	The Person Doing Business with the County is an individual and there is no familial relationship between this individual and any Cook County employee or any person holding elective office in the State of Illinois, Cook County, or any municipality within Cook County.
ĽΧX	The Person Doing Business with the County is a business entity and there is no familial relationship between any member of this business entity's board of directors, officers, persons responsible for general administration of the business entity, agents authorized to execute documents on behalf of the business entity or employees directly engaged in contractual work with the County on behalf of the business entity, and any Cook County employee or any person holding elective office in the State of Illinois, Cook County, or any municipality within Cook County.

COOK COUNTY BOARD OF ETHICS FAMILIAL RELATIONSHIP DISCLOSURE FORM

and at least one Coo	ok County employee and/or a r	individual and there is a familial person or persons holding elective canty. The familial relationships a	office in the State of II	this individual linois, Cook
Name of Individual Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*	
				_
				- .
If more space is needed, atta	ch an additional sheet followi	ng the above format.		
member of this busi entity, agents author contractual work wi and/or a person hold	ness entity's board of director rized to execute documents on th the County on behalf of the	business entity and there is a family, officers, persons responsible for behalf of the business entity and/or business entity, on the one hand, are of Illinois, Cook County, and/or above: Title and Position of Related County Employee or State, County or Municipal Elected Official	general administration r employees directly e and at least one Cook (of the business engaged in
		· · ·		
Name of Officer for Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*	

Name of Person Responsible for the General Administration of the Business Entity Doing	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*	·
Business with the County				•
	· .			
	<u> </u>			
Name of Agent Authorized	Name of Related County	Title and Desition of Date 1		
to Execute Documents for Business Entity Doing Business with the County	Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*	
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· .		<u> </u>		
Name of Employee of Business Entity Directly Engaged in Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship [*]	
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VERIFICATION: To the b	est of my knowledge, the info	rmation I have provided on this di	sclosure form is accur	ate and complete. I
acknowledge that an maccura	ate or incomplete disclosure is	punishable by law, including but r October 13, 2	not limited to fines and	l debarment.
Signature of Recipient		Date		·
SUBMIT COMPLETED FO	69 West Wash Office (312) 6	Board of Ethics ington Street, Suite 3040, Chicago 03-4304 – Fax (312) 603-9988	o, Illinois 60602	क्षणा के के प्राप्त किया निवास के प्राप्त के
	CookCounty I	Ethics@cookcountyil.gov		

* Spouse, domestic partner, civil union partner or parent, child, sibling, aunt, uncle, niece, nephew, grandparent or grandchild by blood, marriage (i.e. in laws and step relations) or adoption.

SECTION 4

COOK COUNTY AFFIDAVIT FOR WAGE THEFT ORDINANCE

Effective May 1, 2015, every Person, including Substantial Owners, seeking a Contract with Cook County must comply with the Cook County Wage Theft Ordinance set forth in Chapter 34, Article IV, Section 179. Any Person/Substantial Owner, who fails to comply with Cook County Wage Theft Ordinance, may request that the Chief Procurement Officer grant a reduction or waiver in accordance with Section 34-179(d).

"Contract" means any written document to make Procurements by or on behalf of Cook County.

"Person" means any individual, corporation, partnership, Joint Venture, trust, association, limited liability company, sole proprietorship or other legal entity.

"Procurement" means obtaining supplies, equipment, goods, or services of any kind.

"Substantial Owner" means any person or persons who own or hold a twenty-five percent (25%) or more percentage of interest in any business entity seeking a County Privilege, including those shareholders, general or limited partners, beneficiaries and principals; except where a business entity is an individual or sole proprietorship, Substantial Owner means that individual or sole proprietor.

All Persons/Substantial Owners are required to complete this affidavit and comply with the Cook County Wage Theft Ordinance before any Contract is awarded. Signature of this form constitutes a certification the information provided below is correct and complete, and that the individual(s) signing this form has/have personal knowledge of such information.

I.	Contract Inform	ation:					-	
Contra	ct Number:	12-6	0-350 Ameno	lment No. 2			<u>. </u>	١.
County	Using Agency (red	questing l	Procurement):		<u> </u>			. "
II.	Person/Substan	itial Own	er Information:				-	
Person	(Corporate Entity I	Name):	Johnson Co	ontrols				
Substa	ntial Owner Comple	ete Name);				. '	•
FEIN#	39-038-001							
Date of	Birth:		·	E-mail address:				
Street A	Address:					-		
City:		***		State:		Zi _l	o:	
Home F	Phone: () _			· .				
III.	Compliance with	n Wage L	_aws;					
piea, m	the past five years lade an admission opening laws:	has the F of guilt or	Person/Substantial liability, or had an	Owner, in any judicial or a administrative finding mad	dministrative pro e for committing	ceeding, been o a repeated or w	convicted of, e illful violation	entered a of any of

No Illinois Wage Payment and Collection Act, 820 ILCS 115/1 et seg.,

No Illinois Minimum Wage Act, 820 ILCS 105/1 et seg.:

No Illinois Worker Adjustment and Retraining Notification Act, 820 ILCS 65/1 et seq.,

No Employee Classification Act, 820 ILCS 185/1 et seq.,

No Fair Labor Standards Act of 1938, 29 U.S.C. 201, et seq.,

No Any comparable state statute or regulation of any state, which governs the payment of wages

If the Person/Substantial Owner answered "Yes" to any of the questions above, it is ineligible to enter into a Contract with Cook County, but can request a reduction or waiver under Section IV.

IV. Request for Waiver or Reduction

If Person/Substantial Owner answered "Yes" to any of the questions above, it may request a reduction or waiver in accordance with Section 34-179(d), provided that the request for reduction of waiver is made on the basis of one or more of the following actions that have taken place:

No There has been a bona fide change in ownership or Control of the ineligible Person or Substantial Owner

No Disciplinary action has been taken against the individual(s) responsible for the acts giving rise to the violation

No Remedial action has been taken to prevent a recurrence of the acts giving rise to the disqualification or default

No Other factors that the Person or Substantial Owner believe are relevant.

The Person/Substantial Owner must submit documentation to support the basis of its request for a reduction or waiver. The Chief Procurement Officer reserves the right to make additional inquiries and request additional documentation.

FIOCUI	ement Onicer reserves the right to make additional inquiries and requ	iest additional documentation.	
V.	Affirmation The Person/Substantial Owner affirms that all statements contained	d in the Affidavit are true, accurate ar	nd complete
	Signature:	· · · · · · · · · · · · · · · · · · ·	er 13, 2016
	Name of Person signing (Print): Richard W. Smith	_{Title:} Branch General Mana	ager
f	Subscribed and sworn to before me this13 day of	October 20	14
х <u>У</u>	trituel L. Drochael	OFFICIAL SEAL	
Note:	Notary Public Signature The above information is subject to verification prior to the awar	MUCHIUSER TRACHSEL O NOTORY ON BLICKSTATE OF ILLINOIS	

SECTION 5

CONTRACT AND EDS EXECUTION PAGE PLEASE EXECUTE THREE ORIGINAL COPIES

The Applicant hereby certifies and warrants that all of the statements, certifications and representations set forth in this EDS are true, complete and correct; that the Applicant is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Applicant with all the policies and requirements set forth in this EDS; and that all facts and information provided by the Applicant in this EDS are true, complete and correct. The Applicant agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

Execution by Corporation Johnson Controls ALEX MOLINAROLI
President's Printed Name and Signature Corporation's Name 414-524-1200 see attached Delegation of Authority Telephone BRIAN J. CADWALLADER October 13, 2016 **Execution by LLC** LLC Name *Member/Manager Printed Name and Signature Date Telephone and Email Execution by Partnership/Joint Venture Partnership/Joint Venture Name *Partner/Joint Venturer Printed Name and Signature Date Telephone and Email **Execution by Sole Proprietorship** Printed Name and Signature Date Telephone Email Subscribed and sworn to before me this _day of ___*[0*___, 20*]_(*. My commission expires OFFICIAL SEAL MICHELLE R TRACHSEI NOTARY PUBLIC - STATE OF ILLINOIS Notary Seal

MY COMMISSION EXPIRES:01/25/20



DELEGATION OF AUTHORITY

The undersigned, President of Johnson Controls, Inc., a Wisconsin corporation (the "Company"), pursuant to the authority vested in him by a certain resolution adopted by the Board of Directors of the Company on January 23, 1980 hereby authorizes

Richard W. Smith Branch General Manager

(hereinafter, the "Delegate") to perform, on behalf of the Company, the acts described below:

To execute and deliver any and all contracts for the performance of work, sale of goods, and furnishing of services, and any other instruments in connection therewith and in the ordinary course of business.

This authority does not extend to:

- a. the execution of surety, performance or bid bonds;
- b. the collection, receipt and recovery of monies due or to become due to the Company and the issuance of receipts and releases for the payment thereof;
- c. the signing of any notes, contracts, or any other agreement to borrow money in the name of the Company, or any form of guaranty for the payment or performance of obligations of any subsidiary, affiliate, or joint venture of the Company; or
- d. the signing, on behalf of the Company, of any deeds, abstracts, offers to purchase or any other instruments pertaining to the purchase or sale of real property.

Any actions taken by such Delegate within the scope of acts authorized herein taken between the date of expiration of any prior delegation of authority and the date hereof are hereby ratified, confirmed and approved as the acts and deeds of this Company.

SCONS!

This authority shall remain in full force and effect through June 17, 2017.

Signed at Milwaukee, Wisconsin, this 18th day of June, 2016.

ATTEST:

Brian & Cadwallader, Secretary

Atex A. Molinaroli, President