tk1sc PM TO WORK WITH USER AND PROJECT TEAM TO DETERMINE LEVEL OFBMS INTEGRATION REQUIRED, SINCE THIS IS A NETWORK SYSTEM, INTEGRATION IS RELATIVELY SIMPLE, BUT IT DOES ADD COST.

> NETWORK LIGHTING CONTROL PANEL SPECIFICATIONS: - CONT'D: 5. NETWORK LIGHTING CONTROL PANEL COMMUNICATIONS AND INTEGRATION CAPABILITIES SHALL HAVE THE

NETWORK AND SHALL BE SAVED IN NON-VOLATILE MEMORY WITHIN THE PANEL

CONTROL PANEL- SEE DLCS SPECIFICATION FOR ADDITIONAL INFORMATION

DLCS NETWORK CONTROLLER OR BUILDING AUTOMATION SYSTEM.

CONTROL PANEL AND HAVE THE FOLLOWING CHARACTERISTICS:

INSTRUCTION MANUALS SHALL BE REQUIRED.

TIME UPON LOSS OF POWER

ADDITIONAL REQUIREMENTS.

THE DLCS MS/TP NETWORK AS A PART OF THE DLCS.

AND OPERATION OF THE LIGHTING CONTROL SYSTEM.

OVER THE LOCAL DLCS NETWORK.

LIGHTING CONTROL RELAYS SHALL BE CONTROLLABLE AS BINARY OUTPUT OBJECTS IN THE INSTANCE RANGE OF 1 - 64. THE STATE OF EACH RELAY SHALL BE READABLE AND WRITEABLE BY THE BAS VIA THE OBJECT PRESENT

VALUE PROPERTY AND REPORT THEIR TRUE ON/OFF STATE. ALL CONFIGURATION OF THE NETWORK LIGHTING CONTROL PANEL SHALL BE PERFORMED USING STANDARD BACNET OBJECTS OR VIA THE HANDHELD IR PROGRAMMING REMOTE. THE DESCRIPTION PROPERTY FOR ALL OBJECTS SHALL BE WRITEABLE VIA THE

DLCS OCCUPANCY SENSOR STATES (READABLE), OCCUPANCY SENSOR CONFIGURATION PARAMETERS WRITEABLE), DLCS SWITCHES (READABLE/WRITEABLE) AND DLCS DAYLIGHTING SENSORS (READABLE) SHALL

6. DLCS SWITCHES, OCCUPANCY SENSORS, DAYLIGHT SENSORS SHALL BE COMPATIBLE WITH NETWORK LIGHTING

7. THE NETWORK LIGHTING CONTROL PANEL CONTROLLER(S) SHALL BE LOCATED IN EACH NETWORK LIGHTING

CONTAIN 1 OR MORE DIGITAL TIME CLOCK(S) (DTCs) THAT CONTROL AND PROGRAM THE ENTIRE LIGHTING

CONTROL SYSTEM AND SUPPLY ALL TIME FUNCTIONS AND ACCEPT INTERFACE INPUTS AS DEFINED IN THE

- LOCAL PROGRAMMING SHALL BE USER-FRIENDLY VIA REMOTE CONTROL OR BUTTONS ON AN LED OR LCD DISPLAY WITH ALL NECESSARY INSTRUCTIONS PRINTED ON THE "CONTROLLER" LABEL. NO AUXILIARY

DIGITAL TIMECLOCK(S) FEATURES INCLUDE SEVEN DAY / HOLIDAY CONTROL, MINIMUM OF 32 DISCRETE

SCHEDULES, EACH OF WHICH HAVE ONE SET OF ON AND OFF TIMES PER DAY FOR EACH DAY OF THE WEEK AND FOR EACH OF TWO HOLIDAY LISTS, 15 YEAR NON-VOLITILE MEMORY TO MAINTAIN PROGRAMMING AND CLOCK

SUPPORT SCHEDULE GROUP, AND PHOTOCELL CONTROL FUNCTIONS VIA THE NETWORK AS CONFIGURED IN THE

ALLOW FOR AUXILIARY INPUT OF A MAINTAINED OR A MOMENTARY PULSE FROM OTHER BUILDING SYSTEMS

8. WHEN INDICATED IN THE NETWORK LIGHTING CONTROL PANEL SCHEDULE PROVIDE AN EXTERIOR PHOTOCELL WHICH

CAPABLE OF SENSING LIGHT LEVEL CHANGES AS FOLLOWS: 1 TO 10, 1 TO 100, 1 TO 1000, AND 1 TO 10,000

UNITS USED FOR EXTERIOR LIGHT CONTROL SHALL PROVIDE MULTIPLE TRIPS POINT FROM 1 ROOF MOUNTED UNIT. ALL TRIPS POINTS SHALL BE ABLE TO BE CHANGED LOCALLY AT THE NEAREST NETWORK LIGHTING CONTROL PANEL CONTROLLER OR REMOTELY VIA NETWORKED DLCS CONTROLLER.

CONNECT EXTERIOR ANALOG PHOTOMETRIC SENSOR TO APPROPRIATE DLCS ANALOG-TO-DIGITAL INTERFACE

WHERE THE NETWORK LIGHTING CONTROL PANEL SCHEDULE INDICATES BIAS SYSTEM INTEGRATION, CONTRACTOR

SHALL PROVIDE PROTOCOL POINT ID/REGISTERS/BITMAPS FOR USE BY OTHERS TO ENABLE
REPORTING/MONITORING/CONTROLLING/ADJUSTING OF ALL DLCS NETWORK DEVICES AND NETWORK LIGHTING

CONTROL PANEL EQUIPMENT OPERATING PARAMETERS TO BUILDING MANAGEMENT SYSTEM (BMS) VIA NETWORK DISTRIBUTED LIGHTING CONTROLS GATEWAY INTERFACE DEVICE AND OTHER REQUIRED ACCESSORIES. THE E.C. SHALL INCLUDE ALL COSTS IN THE BASE BID TO INTEGRATE THE LIGHTING CONTROL SYSTEM WITH THE SPECIFIED

BMS SYSTEM AND SYSTEM PROTOCOL WHICH INCLUDE, BUT IS NOT LIMITED TO, COMMUNICATIONS INTERFACE MODULES, ALONG WITH POINT ID/OBJECT LISTS/REGISTERS. AND MAN-HOURS AS NECESSARY TO ASSIST THE BMS CONTRACTOR IN COMMISSIONING THE BMS SYSTEM AS IT RELATES TO THE NETWORKED DLCS AND NETWORK NG CONTROL PANELS WITH WHICH IT COMMUNICATES. SEE BMS DRAWINGS AND SPECIFICATIONS FOR

10. WHEN THE NETWORK LIGHTING CONTROL PANEL SCHEDULE(S) INDICATES A "NETWORK INTERFACE" OPTION, PROVIDE

REPRESENTATIVE. MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE TRAINING ON FEATURES OF THE SYSTEM AND SHALL VERIFY THAT THE PANEL(S) IS COMMUNICATING WITH THE BUILDING AUTOMATION SYSTEM, WHERE

REQUIRED. INSTRUCTIONS SHALL BE BY THE MANUFACTURER'S REPRESENTATIVE IN THE PRESENCE OF THE OWNER.

ROVIDE TRAINING TO COVER INSTALLATION, MAINTENANCE, TROUBLESHOOTING, PROGRAMMING. AND REPAIR

11. NETWORK LIGHTING CONTROL PANELS SHALL BE PROGRAMMED / APPROVED BY A MANUFACTURER'S

CONFIRMATION OF ENTIRE SYSTEM OPERATION AND COMMUNICATION TO EACH DEVICE

CONFIRMATION OF SYSTEM PROGRAMMING, PHOTOCELL SETTINGS, OVERRIDE SETTINGS, ETC.

12. COMPLY WITH APPLICABLE ENERGY CODE LIGHTING CONTROL SYSTEM ACCEPTANCE REQUIREMENTS TO INCLUDE VERIFICATION THAT LIGHTING CONTROLS WERE INSTALLED AND CALIBRATED CORRECTLY. THESE TESTS MAY REQUIRE THAT A RESPONSIBLE PARTY CERTIFY THAT CONTROLS ARE INSTALLED AND CALIBRATED PROPERLY. THIS SHALL BE THE INSTALLING CONTRACTOR'S RESPONSIBILITY.

13. SHOP DRAWINGS FOR EACH NETWORK LIGHTING CONTROL PANEL SHALL BE SUBMITTED AS PART OF THE DLCS

CONFIGURATIONS AND PROGRAMMING SCHEDULES. SUBMITTALS SHALL BE MADE SPECIFIC TO THE PROJECT - GENERIC SUBMITTALS SHALL BE REJECTED.

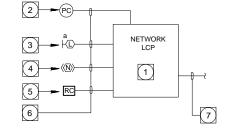
SUBMITTAL PER THE GENERAL SPECIFICATION REQUIREMENTS SHOWING ALL COMPONENTS, WIRIN

14. THE NETWORK LIGHTING CONTROL SYSTEM SHALL BE MANUFACTURED BY THE DLCS MANUFACTURER (WATTSTOPPER OR EQUAL SYSTEM BY N-LIGHT).

NETWORK" INTERFACE OPTION SHALL ALLOW THE NETWORK LIGHTING CONTROL PANEL TO COMMUNICATE OVER

"INTERCONNECT" INTERFACE OPTION SHALL ALLOW THE NETWORK LIGHTING CONTROL PANEL TO COMMUNICATE

NETWORK LIGHTING CONTROL RELAY PANEL SCHEMATIC:



NETWORK LIGHTING CONTROL PANEL SCHEMATIC PLAN NOTES:

- NETWORK LIGHTING CONTROL PANEL. SEE PLANS FOR EXACT LOCATION. REFER TO NETWORK LIGHTING CONTROL
- PANEL SCHEDULE FOR MORE INFORMATION. PROVIDE 120V POWER AS REQUIRED. DO NOT USE LIGHTING BRANCH CIRCUIT FOR CONTROL PANEL POWER. EXTERIOR PHOTOCELL MOUNTED AT EXTERIOR ROOFTOP LOCATION FACING NORTH. UTILIZING 3/4°C AND REQUIRED CONDUCTORS, CONNECT AS REQUIRED TO DISTRIBUTED LIGHTING CONTROL ANALOG INPUT MODULE LOCATED INDOORS. SEE NETWORK LIGHTING CONTROL PANEL SCHEDULE(S) AND SPECIFICATIONS FOR ADDITIONAL
- 3 DLCS LOW VOLTAGE WALL SWITCH CONTROLS UNDER A COMMON FACEPLATE. SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATION(S) FOR MORE INFORMATION AND SEE PLANS FOR EXACT LOCATION(S) QUANTITIES.
- DLCS OCCUPANCY SENSOR & ROOM CONTROLLER(S). SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATION(S) FOR MORE INFORMATION AND SEE PLANS FOR EXACT LOCATION(S) & QUANTITIES. DLCS ROOM CONTROLLER. SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATION(S) FOR MORE INFORMATION AND SEE PLANS FOR EXACT LOCATION(S) & QUANTITIES.
- PROVIDE 3/4" CONDUIT MINIMUM, OR LARGER AS REQUIRED, WITH QUANTITY AND TYPE OF DLCS NETWORK CONDUCTORS PER MANUFACTURERS RECOMMENDATIONS TO ADDITIONAL DLCS COMPONENTS AS REQUIRED.

NETWORK LIGHTING CONTROL PANEL REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT

- 2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE ONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF
- 3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS / WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.

 IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURERS INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY --UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN
- 4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED

NETWORK LIGHTING CONTROL PANEL SPECIFICATIONS:

1. ALL EQUIPMENT SHALL BE NEW, OF CURRENT DESIGN, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF IEEE, NEMA, UL, ANSI AS WELL AS LOCAL JURISDICTION REQUIREMENTS. ALL EQUIPMENT SHALL BE FACTORY ASSEMBLED AND TESTED. THE LATEST PUBLISHED EDITION OF THE FOLLOWING DOCUMENTS SHALL APPLY TO THE MANUFACTURING AND INSTALLATION OF THE LIGHTING CONTROL SYSTEM

- UL 916 ENERGY MANAGEMENT EQUIPMENT
- UL 924 EMERGENCY LIGHTING EQUIPMENT ASHRAE 90.1 CALIFORNIA TITLE 24-- WHERE ADOPTED
- ALL OTHER APPLICABLE STATE & LOCAL ENERGY CODES NEC, OR CEC WHERE ADOPTED, ART. 409
- NEC. OR CEC WHERE ADOPTED, ART, 725

DRAWING SUBMITTAL(S).

- 2. ALL COMPONENTS OF THE NETWORK LIGHTING CONTROL PANEL SHALL BE MANUFACTURED BY A SINGLE MANUFACTURER THAT IS ALSO MANUFACTURING THE DISTRIBUTED LIGHTING CONTROLS SYSTEM FOR THIS PROJECT.

 THE ENTIRE SYSTEM SHALL BE COVERED BY A FIVE YEAR WARRANTY. TELEPHONE FACTORY SUPPORT SHALL BE AVAILABLE AT NO ADDITIONAL COST TO THE CONTRACTOR OR OWNER BOTH DURING AND AFTER THE WARRANTY
- 3. NETWORK LIGHTING CONTROL PANELS SHALL HAVE THE FOLLOWING FEATURES:
- BE PROVIDED COMPLETE WITH ALL REQUIRED CONTROL TRANSFORMERS, VOLTAGE BARRIERS, RELAYS, TIME CLOCKS, DLCS INTERFACE MODULES, COMMUNICATIONS MODULES, EXTERIOR PHOTOCELL INTERFACES, PROGRAMMING INTERFACES ETC TYPICAL OF A NETWORK LIGHTING CONTROL PANEL.
- FACTORY PRE-ASSEMBLED AND UL LISTED. COVER SHALL BE CONFIGURED FOR SURFACE OR FLUSH WALL MOUNTING OF THE PANEL AS INDICATED ON NETWORK LIGHTING CONTROL PANEL SCHEDULE. THE PANEL COVER SHALL HAVE A HINGED AND LOCKABLE DOOR WITH RESTRICTED ACCESS TO LINE VOLTAGE SECTION OF THE
- SHALL FUNCTION AS AN EXTENSION OF THE DISTRIBUTED LIGHTING CONTROLS SYSTEM (DCLS) ON VIA MS/TP NETWORK (NETWORKED) OR LOCAL DIGITAL NETWORK (INTERCONNECT) AS REQUIRED. REFER TO DISTRIBUTED LIGHTING CONTROLS SYSTEM FOR ADDITIONAL INFORMATION. DIGITAL INPUTS IN SUFFICIENT QUANTITY TO SUPPORT DLCS SWITCHES, DLCS IO MODULES CAPABLE OF
- RECEIVING 0-5V OR 0-10V ANALOG PHOTOCELL INPUTS, DLCS IO MODULES CAPABLE OF RECEIVING MOMENTARY OR MAINTAINED CONTACT CLOSURE INPUTS, DLCS PHOTOCELL MODULES, AND DLCS OCCUPANCY SENSORS. AUTOMATICALLY SEQUENCED OPERATION OF RELAYS TO REDUCE IMPACT ON THE ELECTRICAL DISTRIBUTION SYSTEM WHEN LARGE LOADS ARE CONTROLLED SIMULTANEOUSLY.
- POWER SUPPLY SHALL BE A MULTI-VOLTAGE TRANSFORMER ASSEMBLY WITH RATED POWER TO SUPPLY ALL ELECTRONICS, OCCUPANCY SENSORS, SWITCHES, PILOT LIGHTS, AND PHOTOCELLS AS NECESSARY TO MEET THE PROJECT REQUIREMENTS. POWER SUPPLY TO HAVE INTERNAL OVER-CURRENT PROTECTION WITH AUTOMATIC
- SUPPORT DIGITAL COMMUNICATIONS TO FACILITATE THE EXTENSION OF CONTROL TO INCLUDE INTEROPERATION BE RS485 MASTER/SLAVE TOKEN PASSING-BASED USING THE BACNET® PROTOCOL AND SHALL BE FULLY COMPATIBLE WITH BUILDING AUTOMATION SYSTEMS THAT ARE BACNET COMPLIANT
- SUFFICIENT CONFIGURATION FLEXIBILITY TO IMPLEMENT ROOM-LEVEL ENERGY CODE COMPLIANT CONTROLS SEQUENCES- SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.
- 4. NETWORK LIGHTING CONTROL PANEL RELAYS SHALL HAVE THE FOLLOWING CHARACTERISTICS
- RATED FOR FULL CIRCUIT LOAD & SUITABLE FOR ALL TYPES OF LAMP LOADS TO A MINIMUM OF 20 AMPERES AT 347 VAC (SINGLE POLE) AND 600 VAC (DOUBLE POLE).

CONTAINED IN A MOLDED CASE CONTAINING BOTH HIGH AND LOW VOLTAGE TERMINALS AND SHALL HAVE BOTH A BUILT-IN OPERATING LEVER MARKED ON / OFF FOR MANUAL SWITCHING AT THE RELAY PANEL AND LED STATUS LIGHT. TRUE RELAY STATE SHALL BE INDICATED BY THE ON-BOARD LED AND SHALL BE AVAILABLE TO EXTERNAL CONTROL DEVICES AND SYSTEM VIA BACNET.

AUTOMATICALLY SEQUENCES OPERATION OF RELAYS TO REDUCE IMPACT ON THE ELECTRICAL DISTRIBUTION SYSTEM WHEN LARGE LOADS ARE CONTROLLED SIMULTANEOUSLY.

- RELAY LOAD CONTACTS SHALL BE ABLE TO SUSTAIN AVAILABLE FAULT CURRENTS AT THE LOCATION OF THE RELAY WITHIN THE ELECTRICAL SYSTEM AS INDICATED IN THE NETWORK LIGHTING CONTROL PANEL SCHEDULE(S). ALL RELAYS SHALL BE CONSPICUOUSLY MARKED WITH THEIR RESPECTIVE SHORT CIRCUIT
- CURRENT RATING (SCCR). IN NO CASE SHALL A RELAY HAVE AN SCCR LESS THAN 14,000 AMPS. SHOULD A RELAY(S) INTERRUPTING CAPACITY BE INADEQUATE BASED ON AVAILABLE SYSTEM FAULT CURRENT,
- THE CONTRACTOR SHALL MAKE ON OR MORE OF THE FOLLOWING MODIFICATIONS a. EXTEND THE LENGTH OF THE BRANCH CIRCUIT WIRING TO REDUCE THE AVAILABLE FAULT CURRENT TO A LEVEL THAT IS BELOW THE SCCR RATING OF THE RELAYS(S).
- b. RELOCATE LCP(S) IN ORDER TO EXTEND BRANCH CIRCUIT CONDUCTORS TO REDUCE THE AVAILABLE FAULT CURRENT TO A LEVEL THAT IS BELOW THE SCCR RATING OF THE RELAY(S).
- c. UTILIZE A MECHANICALLY-HELD LATCHING LIGHTING CONTACTOR(S) WITH SUFFICIENT SCCR-RATINGS(S) MINIMUM SCCR SHALL BE 14,000A. CONTACTOR(S) SHALL BE OF THE TYPE THAT AUTOMATICALLY CLOSES UPON LOSS OF CONTROL POWER. CONTACTOR(S) SHALL CARRY CIRCUIT CURRENT WHICH, IN TURN, SHALL BE CONTROLLED BY THE LCP RELAY, NUMBER OF CONTACTOR POLES SHALL EQUAL NUMBER OF RELAY POLES SHOWIN THE LIGHTING CONTROL PANEL SCHEDULCES(S) FOR THAT PARTICULAR LOAD (EXAMPLE A 2-POLE RELAY REQUIRES USE OF A 2-POLE LIGHTING CONTACTOR). USING MULTI-POLE CONTACTORS TO COMBINE OUTPUTS/SWITCH LEGS OF DIFFERENT RELAYS IS EXPRESSLY PROHIBITED, EACH CONTACTOR SHALL BE LABELED WITH THE CONTROLLING RELAY LCP NAME AND CONTROLLING RELAY ID #. SEE LABELING REQUIREMENTS WITHIN THE GENERAL ELECTRICAL SPECIFICATION. CONTACTORS SHALL BE LOCATED IN A NEMA ENCLOSURE ABOVE OR ADJACENT TO THEIR SERVING LIGHTING CONTROL PANE CONTRACTOR SHALL INCLUDE CONTACTOR CABINET LOCATION ON 1/4" SCALE ELECTRICAL ROOM SHOP

tk1sc PM TO VERIFY NETWORK COMMUNICATIONS PROTOCOL W/OWNER. ALL tk1sc-SPECIFICED SYSTEMS CAN DO SNMP. GENERALLY - "SNMP" MEANS THAT MANUFACTURER-SPECIFIC SOFTWARE MUST BE LOADED ONTO 1 OR MORE PC(S). THE SOFTWARE LOOKS AT A SPECIFIC IP ADDRESS ON THE LAN ASSIGNED TO THE LCP CONTROLLER. THE CONTROLLER AND THE SOFTWARE THE EXCHANGE INFO.

ONLY WATTSTOPPER HAS A WEB OPTION WHERE A WEB SERVER IS BUILT INTO THE LCP CONTROLLER ALLOWIN	G ANY PC
WITH A BROWSER TO ACCESS IT. THIS SYSTEM IS CURRENTLY VERY VERY SLOW!!! NOT RECOMMENDED YET. LO	&D WILL BE
ROLLING OUT TRUE WEB INTERFACE THIS COMING YEAR.	

CALCULATOR.

tk1sc PM TO INCLUDE AVAILABLE FAULT CURRENT AS CALCULATED USING tk1sc AIC

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GENERAL NOTES

DLM

adjustments. PnG automatically maximizes lighting

2. Push n' LearnTM (PnL): Custom Operation "A" configuration (Config) button on most DLM devices allows easy access to the WattStopper patented PnL technology to modify system operation. Functionality of the Config button is standardized throughout the DLM product line, as is the operation of the Config LED indicators. In addition, the Configuration Tool provides remote infrared access to PnL and sensor adjustment parameters.

A. Contractor is responsible for field verification of required number of power packs.

B. One power pack is required for each circuit that is to

C. Maximum number of sensors that can be wired in parallel to a single power pack is dependent on sensor model (see individual data sheets for mA

She

LIGHTING CONTROL PANELS

1. Plug n' GoTM (PnG): Default Operation. Upon initial power up, the DLM system automatically identifies the devices on the Local Network then enters the WattStopper patented Plug n' GoTM configuration to allow basic operation of all DLM devices. In most applications the relationship between quantity of loads, switches and occupancy sensors will not require any energy efficiency.

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