





















NOTE:  
SION ASSOC NY LLC AND ITS  
PRINCIPAL/ EMPLOYEES WERE  
NOT RETAINED FOR ANY  
SUPERVISION OF THE ACTUAL  
CONSTRUCTION.

REVISIONS

Table with 2 columns: DATE, NOTE

FOR OFFICE USE

DATE DESCRIPTION

Table with 2 columns: DATE, DESCRIPTION

Table with 4 columns: Section # & Req ID, Framing / Rough-In Inspection, Complies?, Comments/Assumptions

Additional Comments/Assumptions:

Table with 4 columns: Section # & Req ID, Plumbing Rough-In Inspection, Complies?, Comments/Assumptions

Additional Comments/Assumptions:

Table with 4 columns: Section # & Req ID, Mechanical Rough-In Inspection, Complies?, Comments/Assumptions

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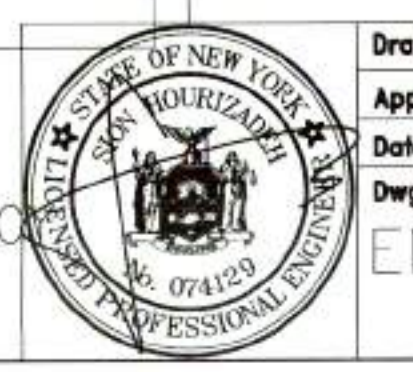
CONTENTS

Table with 2 columns: Section #, Description

Project Address:  
37-85 103RD ST.  
QUEENS, NY

Project Description:  
NEW BUILDING  
SOL - 103

DOB APPLICATION #:



Drawn By: DY  
Approved by:  
Date: 4-17  
Dwg. No.:  
EN-101.00

PROFESSIONAL STATEMENT:  
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION 2016 CODE CHAPTER C4: COMMERCIAL ENERGY EFFICIENCY

# ENERGY CODE COMPLIANCE

NEW YORK CITY ENERGY CONSERVATION CODE 2016 SECTION C4: COMMERCIAL ENERGY EFFICIENCY - CLIMATE ZONE 4A

ITEM DESCRIPTION	CODE	REFERENCE	PROPOSED DESIGN VALUE	CODE PRESCRIBED VALUE																																								
CALCULATIONS OF HEATING AND COOLING LOADS	C403.2.1 C403.2.3	EN-007	AS PER NYECC C403.2.1, THE PROPOSED EQUIPMENT IS BASED ON DESIGN LOADS THAT ARE DETERMINED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN ANSI/ASHRAE/ACCA STANDARD 183. DESIGN LOAD CALCULATION SUMMARY IS PROVIDED.	PER NYECC C403.2.1, DESIGN LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN ANSI/ASHRAE/ACCA STANDARD 183 FOR DETERMINING CORRECT EQUIPMENT SIZE.																																								
DUCT AND PLENUM INSULATION AND SEALING	C403.2.7	EN-102	<p>ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS IS INSULATED WITH A MINIMUM OF R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING. ALL DUCTWORK SHALL BE INSULATED AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th></th> <th>OUTDOOR</th> <th>UNCONDITIONED</th> <th>CONDITIONED</th> </tr> </thead> <tbody> <tr> <td>SUPPLY &lt;2 IN W.C.</td> <td>N/A</td> <td>B</td> <td>C</td> </tr> <tr> <td>SUPPLY &gt;2 IN W.C.</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>EXHAUST</td> <td>N/A</td> <td>C</td> <td>B</td> </tr> <tr> <td>RETURN</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>TYPE: A - ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND WALL PENETRATIONS. B - ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS C - ALL TRANSVERSE JOINTS</p> <p>COMBINED HEATING AND COOLING SUPPLY AND RETURN EXTERIOR SPACE N/A UNCONDITIONED SPACE R-VALUE &gt; 5 INDIRECTLY CONDITIONED SPACE (RETURN PLENUM) NONE BURIED N/A</p>		OUTDOOR	UNCONDITIONED	CONDITIONED	SUPPLY <2 IN W.C.	N/A	B	C	SUPPLY >2 IN W.C.	N/A	N/A	N/A	EXHAUST	N/A	C	B	RETURN	N/A	N/A	N/A	<p>ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING. ALL DUCTWORK SHALL BE INSULATED AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th></th> <th>OUTDOOR</th> <th>UNCONDITIONED</th> <th>CONDITIONED</th> </tr> </thead> <tbody> <tr> <td>SUPPLY &lt;2 IN W.C.</td> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td>SUPPLY &gt;2 IN W.C.</td> <td>A</td> <td>A</td> <td>B</td> </tr> <tr> <td>EXHAUST</td> <td>C</td> <td>C</td> <td>B</td> </tr> <tr> <td>RETURN</td> <td>A</td> <td>B</td> <td>C</td> </tr> </tbody> </table> <p>TYPE: A - ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND WALL PENETRATIONS. B - ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS C - ALL TRANSVERSE JOINTS</p> <p>COMBINED HEATING AND COOLING SUPPLY AND RETURN EXTERIOR SPACE R-VALUE &gt; 6 UNCONDITIONED SPACE R-VALUE &gt; 3.5 INDIRECTLY CONDITIONED SPACE (RETURN PLENUM) NONE BURIED R-VALUE &gt; 3.5</p>		OUTDOOR	UNCONDITIONED	CONDITIONED	SUPPLY <2 IN W.C.	A	B	C	SUPPLY >2 IN W.C.	A	A	B	EXHAUST	C	C	B	RETURN	A	B	C
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PIPING	C403.2.9	A-101	<p>ALL PIPING IS THERMALLY INSULATED AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th>NOMINAL PIPE DIAMETER ≤ 1.5"</th> <th>R-VALUE</th> <th>NOMINAL PIPE DIAMETER &gt; 1.5"</th> <th>R-VALUE</th> </tr> </thead> <tbody> <tr> <td>STEAM</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>HOT WATER</td> <td>1</td> <td>2</td> <td>R 18</td> </tr> <tr> <td>CHILLED WATER, BRINE, OR REFRIGERANT</td> <td>1</td> <td>1-1/2</td> <td>R 18</td> </tr> </tbody> </table>	NOMINAL PIPE DIAMETER ≤ 1.5"	R-VALUE	NOMINAL PIPE DIAMETER > 1.5"	R-VALUE	STEAM	N/A	N/A	N/A	HOT WATER	1	2	R 18	CHILLED WATER, BRINE, OR REFRIGERANT	1	1-1/2	R 18	<p>ALL PIPING SHALL BE THERMALLY INSULATED. AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th>NOMINAL PIPE DIAMETER ≤ 1.5"</th> <th>NOMINAL PIPE DIAMETER &gt; 1.5"</th> </tr> </thead> <tbody> <tr> <td>STEAM</td> <td>1-1/2</td> <td>3</td> </tr> <tr> <td>HOT WATER</td> <td>1</td> <td>2</td> </tr> <tr> <td>CHILLED WATER, BRINE, OR REFRIGERANT</td> <td>1</td> <td>1-1/2</td> </tr> </tbody> </table>	NOMINAL PIPE DIAMETER ≤ 1.5"	NOMINAL PIPE DIAMETER > 1.5"	STEAM	1-1/2	3	HOT WATER	1	2	CHILLED WATER, BRINE, OR REFRIGERANT	1	1-1/2													
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HVAC SYSTEM CONTROLS	C403.2.4	EN-104	<p>THERE WILL BE ONE 7-DAY PROGRAMMABLE THERMOSTAT FOR EACH UNIT OR ZONE. THE TEMPERATURE CONTROL MODULE WITHIN THE PROGRAMMABLE THERMOSTAT IS CAPABLE PROVIDING A DEADBAND OF GREATER THAN 5 DEGF IN ORDER TO PREVENT SHORT CYCLE. THE PROGRAMMABLE THERMOSTAT IS CAPABLE OF SETBACK CONTROL DURING OFF HOURS THAT ARE SETTLE THROUGH A PROGRAMMABLE INTERFACE WITH AN INTERNAL TIME CLOCK. THE PROGRAMMABLE THERMOSTAT IS CAPABLE OF SHUTTING DOWN AUTOMATICALLY ACCORDING TO THE TIME SETTING OF THE PROGRAMMABLE MODULE. AIR CAPACITY IS LESS THAN 10,000 CFM.</p>	<p>THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE, WHERE USED TO CONTROL BOTH HEATING AND COOLING. ZONE THERMOSTATIC CONTROLS SHALL PROVIDE A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5DEGF WITHIN WHICH THE SUPPLY OF HEATING AND COOLING TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM. EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM. AUTOMATIC SETBACK AND SHUTDOWN SHALL BE CAPABLE PER C403.2.4.3.2.</p>																																								
DAMPERS	C403.2.4.3	EN-104	<p>OUTDOOR AIR INTAKE AND EXHAUST DAMPERS SHALL BE PROVIDED. - STAIRWAY &amp; ELEVATOR ENCLOSURE - TOILET AND KITCHEN EXHAUST FAN: INCORPORATED WITH GRAVITY DAMPERS. - <del>OUTDOOR AIR INTAKE - PROVIDE MOTORIZED DAMPER</del> - <del>EXHAUST EXHAUST - PROVIDE MOTORIZED DAMPER</del></p>	<p>OUTDOOR AIR SUPPLY AND EXHAUST OPENINGS IN THE BUILDING ENVELOPE, DUCTS, OR EQUIPMENT SHALL BE PROVIDED WITH CLASS I MOTORIZED DAMPERS. OUTDOOR AIR SUPPLY AND EXHAUST MOTORIZED DAMPERS SHALL BE CONFIGURED TO CLOSE AUTOMATICALLY WHEN THE SYSTEM OR SPACES SERVED ARE NOT USED. GRAVITY DAMPERS ARE PERMITTED TO BE USED IN BUILDINGS LESS THAN THREE STORES IN HEIGHT ABOVE GRADE FOR EXHAUST AND RELIEF, AND WHERE THE DESIGN OUTDOOR AIR INTAKE OR EXHAUST CAPACITY DOES NOT EXCEED 300CFM.</p>																																								
TEMPERATURE CONTROLS	C404.2 C404.3	A-107	<p>SERVICE WATER HEATING EQUIPMENT IS PROVIDED WITH CONTROLS TO ALLOW A SET POINT OF 110 DEGREE F FOR EQUIPMENT SERVING DWELLING UNITS AND 90 DEGREE F FOR EQUIPMENT SERVING OTHER OCCUPANCIES.</p>	<p>SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS TO ALLOW A SET POINT OF 110 DEGREE F FOR EQUIPMENT SERVING DWELLING UNITS AND 90 DEGREE F FOR EQUIPMENT SERVING OTHER OCCUPANCIES.</p>																																								
HEAT TRAPS	C404.4	EN-104	<p>HEAT TRAP IS NOT REQUIRED. THE SYSTEM IS SERVING WITH AUTOMATIC CIRCULATION SYSTEM.</p>	<p>WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT.</p> <p>A NARRATIVE IS TO BE PROVIDED FOR EACH MANDATORY CONTROL SYSTEM DESCRIBING ITS FUNCTION AND OPERATION AND SPECIFYING PROPER SET POINT OF EQUIPMENT AND CONTROLS.</p>																																								
Efficient heated water supply piping	C404.5	EN-104	<p>Provides B' maximum allowable piping length from the nearest source of heated water to the termination of the fixture supply pipe</p>	<p>Maximum allowable pipe length method. The maximum allowable piping length from the nearest source of heated water to the termination of the fixture supply pipe shall be in accordance with the following. Where the piping contains more than one size of pipe, the largest size of pipe within the piping shall be used for determining the maximum allowable length of the piping in Table C404.5.1.</p>																																								
HVAC NARRATIVE	RCNY 5000-1, (g)(2)	EN-104	<p>1. SPLIT SYSTEM HEAT PUMP: A PROGRAMMABLE TEMPERATURE CONTROL MODULE IS PROVIDED TO SET INDOOR ROOM TEMPERATURE (INITIALLY SET TO 75DEGF), AS WELL AS SETBACK TIME AND AUTOMATIC SHUTOFF TIMING. SETBACK TEMPERATURE SHALL BE SET AT 85 DEGF IN HEATING. WHEN THE ROOM TEMPERATURE FALLS BELOW THE SET POINT OF THE SPACE TEMPERATURE SENSOR, THE OUTDOOR CONDENSER WILL ENTER INTO HEATING MODE TO MAINTAIN THE SET POINT TEMPERATURE.</p>	<p>A NARRATIVE IS TO BE PROVIDED FOR EACH MANDATORY CONTROL SYSTEM DESCRIBING ITS FUNCTION AND OPERATION AND SPECIFYING PROPER SET POINT OF EQUIPMENT AND CONTROLS.</p>																																								
SYSTEM COMMISSIONING	C403.3.1	N/A	<p>THE TOTAL PROPOSED CAPACITY BEING INSTALLED IS LESS THAN 600,000 BTU/H IN HEATING CAPACITY AND 480,000 BTU/H IN COOLING CAPACITY. THEREFORE, COMMISSIONING IS NOT REQUIRED. PROPOSED EQUIPMENT CAPACITY CALCULATION: HEATING CAPACITY: TOTAL PROPOSED 368X6 + 604X3 = 396,000 BTU/H &lt; 600,000 BTU/H COOLING CAPACITY: TOTAL PROPOSED 28KX6 + 55KX3 = 333,000 BTU/H &lt; 480,000 BTU/H</p>	<p>MECHANICAL AND SERVICE HOT WATER HEATING SYSTEMS IN BUILDINGS WHERE TOTAL CAPACITY BEING INSTALLED IS LESS THAN 480,000BTU/H COOLING CAPACITY AND 600,000 BTU/H HEATING CAPACITY ARE EXEMPT FROM THE COMMISSIONING REQUIREMENTS.</p>																																								
Interior design conditions	C302.1	EN-102	<p>72° (22°C) for heating and 75° (24°C) for cooling</p>	<p>C302.1 Interior design conditions. The interior design temperatures used for heating and cooling load calculations shall be a maximum of 72° (22°C) for heating and minimum of 75° (24°C) for cooling.</p>																																								

**CASE 1: GENERAL MANDATORY.** THIS SECTION COVERS LIGHTING SYSTEM CONTROLS. THE MAXIMUM LIGHTING POWER FOR INTERIOR AND EXTERIOR APPLICATIONS AND ELECTRICAL ENERGY CONSUMPTION REQUIREMENTS SHALL BE AS SPECIFIED IN THIS SECTION. EXCEPTION: DWELLING UNITS WITHIN COMMERCIAL BUILDINGS SHALL NOT BE REQUIRED TO COMPLY WITH SECTIONS C403.2 THROUGH C403.5 PROVIDED THAT THEY COMPLY WITH SECTION 604.4.

**CASE 2: LIGHTING CONTROLS (MANDATORY).** LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS AS SPECIFIED IN SECTIONS C403.2.1, C403.2.2, C403.2.3, C403.2.4 AND C403.2.5. LIGHTING CONTROLS ARE NOT REQUIRED FOR THE FOLLOWING:  
1. AREAS DESIGNATED AS SECURITY OR EMERGENCY LIGHTING THAT ARE REQUIRED TO BE CONTINUOUSLY LIGHTED  
2. INTERIOR EXIT SIGNAGE, EXCEPT FOR ROOMS WITH PASSAGEWAYS  
3. EMERGENCY ESCAPE LIGHTING THAT IS NORMALLY OFF

**CASE 3: OCCUPANCY SENSITIVE CONTROLS.** OCCUPANCY SENSITIVE CONTROLS SHALL BE INSTALLED TO CONTROL LIGHTS IN THE FOLLOWING SPACE TYPES:  
CLASSROOMS, LECTURE HALLS, CONFERENCE ROOMS, MEETING ROOMS, PURPOSE ROOMS, CONFERENCE ROOMS, LUNCH ROOMS, EMPLOYEE LUNCH AND BREAK ROOMS, PRIVATE OFFICES AND RECEPTION, STORAGE ROOMS, WAITING ROOMS AND BREAK ROOMS, OFFICES SMALLER THAN 200 SQUARE FEET (18.6 M<sup>2</sup>) IN AREA, BATH ROOMS AND TOILETS. EXCEPTION: OCCUPANCY SENSITIVE CONTROLS ARE NOT REQUIRED FOR THE FOLLOWING:  
1. AREAS DESIGNATED AS SECURITY OR EMERGENCY LIGHTING THAT ARE REQUIRED TO BE CONTINUOUSLY LIGHTED  
2. INTERIOR EXIT SIGNAGE, EXCEPT FOR ROOMS WITH PASSAGEWAYS  
3. EMERGENCY ESCAPE LIGHTING THAT IS NORMALLY OFF

**CASE 4: OCCUPANT SENSOR CONTROL FUNCTION.** OCCUPANT SENSOR CONTROLS IN SPACES OTHER THAN WAREHOUSES SPECIFIED IN SECTION C403.2.1 SHALL COMPLY WITH THE FOLLOWING:  
1. AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE  
2. BE MANUALLY ON OR OFF BY THE OCCUPANT OR BY THE LIGHTING CONTROL SYSTEM THROUGH A MANUALLY OPERATED POWER SWITCH  
EXCEPTIONS:  
1. FULL AUTOMATIC OR SENSITIVE CONTROLS SHALL BE PERMITTED TO CONTROL LIGHTING IN OPEN PLAN OFFICE, PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY EXITS, ENTRANCE AREAS AND LOBBIES, AND AREAS WHERE MANUAL OPERATION WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS  
2. MANUALLY OPERATED CONTROLS SHALL BE REQUIRED FOR CLASSROOMS, NOT INCLUDING SHOP CLASSROOMS, LABORATORY, CLASSROOMS, AND PREP ROOMS, CLASSROOMS, CONFERENCE MEETING ROOMS, EMPLOYEE LUNCH AND BREAK ROOMS, AND OFFICES SMALLER THAN 200 SQUARE FEET (18.6 M<sup>2</sup>) IN AREA. SUCH SENSORS AND CONTROLS SHALL NOT HAVE AN OCCUPANT SENSOR THAT CONTROLS LIGHTS FROM MANUAL ON TO AUTOMATIC OFF FUNCTIONALITY, AND MUST HAVE A SENSITIVE PERIOD OF UP TO 20 SECONDS TO TURN ON THE LIGHTING AUTOMATICALLY AFTER THE SENSOR HAS TURNED OFF THE LIGHTING  
3. SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS OFF

**CASE 5: TIME SWITCH CONTROL FUNCTION.** EACH AREA OF THE BUILDING THAT IS NOT PROVIDED WITH OCCUPANT SENSOR CONTROLS COMPLYING WITH SECTION C403.2.1 SHALL BE PROVIDED WITH THE SWITCH CONTROLS COMPLYING WITH SECTION C403.2.2. EXCEPTION: AREAS A MANUALLY CONTROLLED LIGHT REDUCTION IN ACCORDANCE WITH SECTION C403.2.2. AUTOMATIC CONTROLS SHALL NOT BE REQUIRED FOR THE FOLLOWING:  
1. SLEEPING QUARTERS  
2. SPACES WHERE AN AUTOMATIC SWITCH WOULD ENDANGER OCCUPANT SAFETY OR SECURITY  
3. LIGHTS IN RECREATION AREAS  
4. SHOP AND LABORATORY CLASSROOMS

**CASE 6: TIME SWITCH CONTROL FUNCTION.** EACH SPACE PROVIDED WITH TIME SWITCH CONTROLS SHALL ALSO BE PROVIDED WITH A MANUAL CONTROL FOR LIGHT REDUCTION IN ACCORDANCE WITH SECTION C403.2.2. TIME SWITCH CONTROLS SHALL INCLUDE AN OVERSIGHT SWITCHING DEVICE THAT COMPLIES WITH THE FOLLOWING:  
1. HAVE A MINIMUM 7 DAY CYCLE  
2. BE CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY-TYPE PERIODS  
3. INCORPORATE AN OFF POSITION THAT PERMITS THE LIGHTS TO BE TURNED OFF ALL CONTROLLED LIGHTING LOADS FOR AT LEAST 30 MINUTES AND THEN RESUME NORMALLY SCHEDULED OPERATIONS  
4. HAVE PROPER MARKING CAPABLE OF PREVENTING THE LOSS OF PROGRAM AND TIME SETTINGS FOR AT LEAST 90 HOURS, IF POWER IS INTERRUPTED  
5. INCLUDE AN OVERSIGHT SWITCH THAT COMPLIES WITH THE FOLLOWING:  
1.1 THE OVERSIGHT SWITCH SHALL BE MANUALLY OPERATED  
1.2 THE OVERSIGHT SWITCH, WHEN ACTIVATED, SHALL PERMIT THE CONTROLLED LIGHTING TO REMAIN ON FOR NOT MORE THAN 1 HOUR  
1.3 ANY INDIVIDUAL OVERSIGHT SWITCH SHALL CONTROL THE LIGHTING FOR AN AREA NOT LARGER THAN 100 SQUARE FEET (9.3 M<sup>2</sup>)  
EXCEPTIONS:  
1. WITHIN WALLS, ARCHWAYS, AUDITORIUMS, SINGLE-TENANT RETAIL SPACES, INDUSTRIAL FACILITIES AND AREAS  
1.1 THE TIME LIMIT SHALL BE PERMITTED TO BE GREATER THAN 2 HOURS PROVIDED THAT THE OVERSIGHT SWITCH IS A DAPTIVE KEY DEVICE  
1.2 THE AREA CONTROLLED BY THE OVERSIGHT SWITCH IS PERMITTED TO BE GREATER THAN 100 SQUARE FEET (9.3 M<sup>2</sup>) BUT SHALL NOT BE GREATER THAN 200 SQUARE FEET (18.6 M<sup>2</sup>)  
2. SPACES THAT HAVE ONLY ONE LIGHTING FIXTURE WITH A RATED POWER OF LESS THAN 100 WATTS  
2.2 SPACES THAT USE LESS THAN 100 WATTS PER SQUARE FOOT (10.8 W/M<sup>2</sup>)  
2.3 EXISTING EQUIPMENT ROOMS, PUBLIC LOBBIES, ELECTRIC OR MECHANICAL ROOMS

**CASE 7: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 8: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 9: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 10: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 11: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 12: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 13: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 14: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 15: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 16: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 17: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 18: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 19: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 20: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 21: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 22: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 23: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 24: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 25: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 26: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 27: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 28: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 29: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 30: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 31: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 32: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 33: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 34: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 35: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 36: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 37: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 38: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 39: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 40: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 41: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 42: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 43: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 44: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 45: DAYLIGHT RESPONSIVE CONTROLS.** DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3 SHALL BE PROVIDED TO CONTROL THE ELECTRIC LIGHTS WITHIN DAYLIGHT ZONES IN THE FOLLOWING SPACES:  
1. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>)  
2. SPACES WITH A TOTAL AREA GREATER THAN 10,000 SQUARE FEET (929 M<sup>2</sup>) THAT ARE NOT DAYLIGHT ZONES COMPLYING WITH SECTION C403.2.3  
EXCEPTIONS:  
1. SPACES IN HEALTH CARE FACILITIES WHERE PATIENT CARE IS DIRECTLY PROVIDED  
2. SPACES WHERE LIGHTING IS REQUIRED TO HAVE SPECIFIC APPLICATION CONTROL IN ACCORDANCE WITH SECTION C403.4  
3. LIGHTING EQUIPMENT THAT IS NOT PART OF THE BUILDING'S LIGHTING SYSTEM

**CASE 46: LIGHT REDUCTION CONTROLS.** SPACES REQUIRED TO HAVE LIGHT REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 5 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING:  
1. CONTROLLING ALL LAMPS OR LUMINAIRES  
2. DIMMING ALL LAMPS OR LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS  
3. CONTROLLING THE MIDDLE LAMP LUMINAIRE INDEPENDENTLY OF THE OUTER LAMPS  
EXCEPTION: LIGHT REDUCTION CONTROLS ARE NOT REQUIRED IN DAYLIGHT ZONES WITH DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH SECTION C403.2.3

**CASE 47: MANUAL CONTROL.** MANUAL CONTROLS FOR LIGHTS SHALL COMPLY WITH THE FOLLOWING:  
1. SHALL BE EASILY ACCESSIBLE TO OCCUPANTS  
2. SHALL BE MANUALLY OPERATED  
3. SHALL BE MANUALLY OPERATED OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHT AND INDICATE THEIR STATUS

**CASE 48: DAYLIGHT RESPONSIVE CONTROLS.</**



















