

260943 LIGHTING CONTROL SYSTEM FUNCTIONAL TESTING

1. LIGHTING SYSTEM FUNCTIONAL TESTING. CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL COMPLY WITH THIS SECTION.

COMPLETE WITH THIS SECTION:

2. FUNCTIONAL TESTING, PRIOR TO ISSUING THE FINAL ELECTRICAL AFFIDAVITS, THE REGISTERED DESIGN PROFESSIONAL SHALL BE PROVIDED WITH FORMS FOR EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO PROVE THAT THE HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURERS' INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS 4, 3 AND 5 FOR THE APPLICABLE CONTROL TYPE.
3. OCCUPANT SENSOR CONTROLS, WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
- A. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - B. TEST EACH SUBJECTS WITH SEVERAL OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
 - C. TEST EACH SUBJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS. TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY, WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN TWO COMBINATIONS IN NO CASE LESS THAN ONE. OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED, WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS PASS, THE REMAINING ONE OR TWO COMBINATIONS SHALL NOT BE TESTED.
- FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
- C.1. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
 - C.2. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
 - C.3. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
 - C.4. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
 - C.5. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY OTHER MEANS.

4. TIME-SWITCH CONTROLS. WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- A. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
 - B. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
 - C. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
 - D. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
 - E. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
 - F. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
 - F.1. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
 - F.2. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
 - G. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
 - G.1. NONEXEMPT LIGHTING TURNS OFF.
 - G.2. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE SWITCH OVER-RIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.
5. DAYLIGHT RESPONSIVE CONTROLS. WHERE DAY-LIGHT RESPONSIVE CONTROLS ARE PROVIDED THE FOLLOWING SHALL BE VERIFIED:
- A. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SETPOINTS AND THRESHOLD LIGHT LEVELS.
 - B. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
 - C. THE LOCATION OF LIGHTING ADJUSTMENT EQUIPMENT ARE READILY ACCESSIBLE TO ALL AUTHORIZED PERSONNEL.

- 6 THE ELECTRICAL CONTRACTOR IS TO PROVIDE FORMAL DOCUMENTATION THAT THE ABOVE REQUIRED TESTING HAS OCCURRED. THE ELECTRICAL CONTRACTOR IS TO SUBMIT A LIST OF ALL THE SPACES AND AREAS WITHIN THE SCOPE OF THIS PROJECT WITH LIGHTING CONTROLS. THE CONTRACTOR IS TO PROVIDE THE NAME AND ADDRESS OF THE MANUFACTURER OF THE CONTROLS. THE CONTRACTORS REPRESENTATIVE WHO'S LICENCES WAS USED TO OBTAIN THE PERMIT, THE LIST WILL INDICATE EACH AND EVERY ROOM DEFINED BY NAME AND NUMBER AND THE RESULTS OF THE REQUIRED TESTING. THE CONTRACTOR IS TO OBTAIN THE SIGNATURE OF THE MANUFACTURER'S AUTHORIZED MANUFACTURERS FACTORY TECHNICIAN. FORMAL DOCUMENTATION IS TO BE INCLUDED IN THIS DOCUMENT BY THE MANUFACTURERS REPRESENTATIVE THAT THE SYSTEM(S) IS/ARE INSTALLED AND OPERATING IN THE BEST CONDITION. DOCUMENTATION IS TO BE ON THE MANUFACTURERS LETTER HEAD AND SIGNED.

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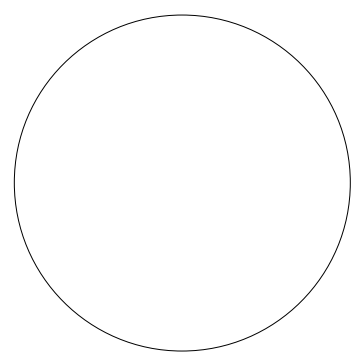
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REVISIONS

ELECTRICAL SPECIFICATIONS SHEET 2

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