

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09/19/08
 PROJECT ADDRESS: SAN MATEO, CA
 PRINCIPAL DESIGNER/LIGHTING: TOM SATER TELEPHONE: 408-321-2207
 DOCUMENTATION AUTHOR: TOM SATER TELEPHONE: 408-321-2207

GENERAL INFORMATION
 DATE OF PLANS: 09-19-08 BUILDING CONDITIONED FLOOR AREA: 1,672 SQ. FT. CLIMATE ZONE: 3
 BUILDING TYPE: NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/MOTEL GUEST
 CONDITIONED SPACES UNCONDITIONED SPACES INDOOR / OUTDOOR SIGNS
 PHASE OF CONSTRUCTION: NEW ADDITION ALTERATION

METHOD OF COMPLIANCE
 PERFORMANCE COMPLETE BUILDING AREA CATEGORY TAILORED COMMON LIGHTING

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

Documentation Author: *Tom Sater* DATE: 4-8-09

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet lighting requirements contained in applicable parts of Sections 110, 119, 130-132, 146, 148, & 149 of Title 24, Part 6.

The plans & specifications meet the requirements of Part 6 (Sections 10-103a). The installation certificates meet the requirements of Part 6 (10-103a).

The operation & maintenance information meet the requirements of Part 6 (10-103a).

Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 6557.2 or 6737.3 to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing this work.

I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Principal Lighting Designer Name: WILLIAM MAZZETTI DATE: 4-8-09

LIGHTING MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measure

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

- LTG-1-C, Parts 1 of 4 and 2 of 4 Certificate of Compliance. Part 1 of 4 and 2 of 4 are required for all submittals
- LTG-1-C, Part 3 of 4 Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed
- LTG-1-C, Part 4 of 4 Certificate of Compliance. Part 4 of 4 submittal is required when lighting controls are installed
- LTG-2-C Indoor Lighting Schedule
- LTG-3-C Portable Lighting Worksheet
- LTG-4-C Lighting Controls Credit Worksheet
- LTG-5-C Indoor Lighting Power Allowance
- LTG-6-C Tailored Method Worksheet
- LTG-7-C Room Cavity Ratio Worksheet
- LTG-8-C Common Lighting Systems Method Worksheet
- LTG-9-C Line Voltage Track Lighting Worksheet
- OLTG-4-C Signs (See OLTG-4-C Signs Worksheet in Chapter 8, Outdoor Lighting and Signs Chapter)

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09-19-08
 INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

| INSTALLER | INSTALLED WATTS |
|--|-----------------|
| INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C) | 1,320 |
| PORTABLE LIGHTING (From LTG-3-C) | 0 |
| LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C) | 0 |
| CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER | 1,320 |
| UNCONDITIONED SPACES (From LTG-2-C) | 0 |
| LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C) | 0 |
| UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER | 1,320 |

ALLOWED INDOOR LIGHTING POWER FOR CONDITIONED SPACES

COMPLETE BUILDING METHOD (from LTG-5-C)

AREA CATEGORY METHOD (from LTG-5-C)

TAILORED METHOD (from LTG-5-C)

ALLOWED LIGHTING POWER: 1,354 Watts

ALTERNATE COMPLIANCE

PERFORMANCE METHOD

COMMON LIGHTING SYSTEM (from LTG-8-C)

ALLOWED INDOOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C): _____ Watts

MANDATORY LIGHTING MEASURES FOR INDOOR LIGHTING AND DAYLIGHT AREAS

MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

| CONTROL LOCATION (Room #, Area #, or Description) | CONTROL IDENTIFICATION (OS) | CONTROL TYPE (Auto Time Switch, Dimming, Photo sensor, etc.) | SPACE CONTROLLED (Lists the location of controlled lights) | If Control is for Daylighting | NOTE TO FIELD |
|---|-----------------------------|--|--|-------------------------------------|---------------|
| CONCESSIONS | OS | OCCUPANT SENSOR | CONCESSIONS | <input checked="" type="checkbox"/> | |
| MECHANICAL ROOMS | SWITCHES | SWITCHES | MECHANICAL ROOMS | <input type="checkbox"/> | |

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09-19-08

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The NJ number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

Systems Acceptance: Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, MECH-1-A, Forms shall be submitted to the building department that:

A. Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title 24 Part 6.

Test Description

Test Performed By:

LTG-2-A Lighting Control Acceptance Document

- Occupancy Sensor Acceptance
- Manual Daylight Controls Acceptance
- Automatic Time Switch Control Acceptance

Equipment requiring acceptance testing: _____

CEILING OCCUPANCY SENSOR

Equipment requiring acceptance testing: _____

LTG-3-A Automatic Daylighting Controls Acceptance Document

Equipment requiring acceptance testing: _____

INDOOR LIGHTING SCHEDULE (Part 2 of 2) LTG-2-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09-19-08

INSTALLED LIGHTING POWER FOR UNCONDITIONED SPACES

| A | Luminaire | Lamps/Ballasts | | Installed Watts | | | | I | J |
|--------|----------------------|----------------|---------------------|-----------------|---------------------|---------------------|----|---------------------|-------------------------|
| | | C | D | E | F | G | H | | |
| Name | Type Description | Lum. Type | Number of Luminaire | Watts | Number of Luminaire | Watts per Luminaire | OS | Number of Luminaire | Installed Watts (I x J) |
| F1 | SEE FIXTURE SCHEDULE | CFL | 2 | 42 | 1 | 84 | ✓ | 2 | 168 |
| F2 | SEE FIXTURE SCHEDULE | F3218 | 2 | 32 | 1 | 64 | ✓ | 4 | 256 |
| F3/F3E | SEE FIXTURE SCHEDULE | F3218 | 2 | 32 | 1 | 64 | ✓ | 14 | 896 |

BUILDING TOTAL (sum of all pages): 1,320

CONTROL CREDIT (from LTG-4-C): 0

ADJUSTED ACTUAL WATTS: 1,320

INDOOR LIGHTING POWER ALLOWANCE LTG-5-C

PROJECT NAME: COLLEGE OF SAN MATEO POOL EQUIPMENT BLDG. DATE: 09-19-08

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES

| BUILDING CATEGORY (From § 146 Table 146-B) | WATTS PER (ft ²) | COMPLETE BLDG. AREA | ALLOWED WATTS |
|--|------------------------------|---------------------|---------------|
| | | | |

AREA CATEGORY METHOD - CONDITIONED SPACES

| A | B | C | D |
|--|------------------------------|-------------------------|---------------|
| AREA CATEGORY (From § 146 Table 146-C) | WATTS PER (ft ²) | AREA (ft ²) | ALLOWED WATTS |
| CONCESSIONS KITCHEN | 1.6 | 204 | 326 |
| MECHANICAL EQUIPMENT ROOMS | .7 | 1,468 | 1,028 |

TAILORED METHOD - CONDITIONED SPACES

TOTAL ALLOWED WATTS (From LTG-5-C): 1,354

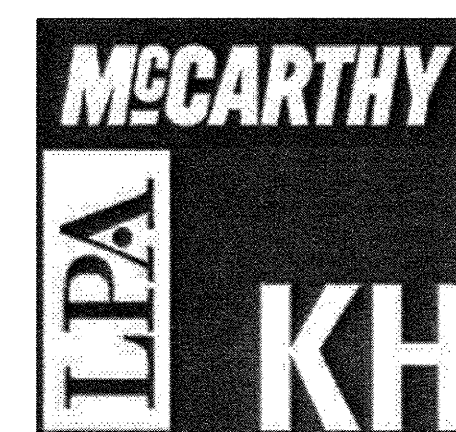
UNCONDITIONED SPACES

| A | B | C | D |
|---|------------------------------|-------------------------|---------------|
| Complete Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C) | WATTS PER (ft ²) | AREA (ft ²) | ALLOWED WATTS |
| | | | |

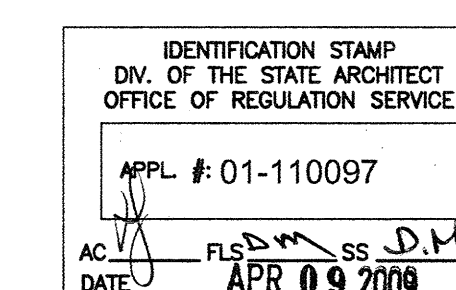
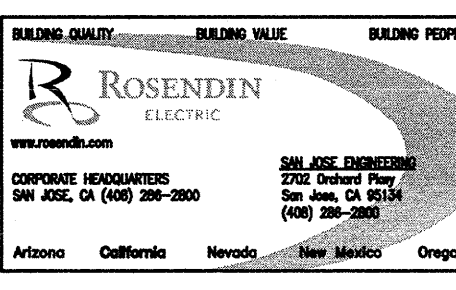
TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-5-C and LTG-6-C): _____

TITLE 24 COMPLIANCE NOTES:

1. BUILDING LIGHTING SHUT-OFF:
THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF LOCAL OCCUPANCY SENSORS ZONED FOR THE CONCESSIONS ROOM.
2. OVERRIDE FOR BUILDING LIGHTING SHUT-OFF:
THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH SWITCHES FOR OCCUPANCY SENSOR OVERRIDE. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.
3. AUTOMATIC CONTROL DEVICES CERTIFIED:
ALL AUTOMATIC CONTROL DEVICES SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA AND INSTALLED AS DIRECTED BY THE MANUFACTURER FOR PROPER CONTROL AND OPERATION.
4. FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED:
ALL FLUORESCENT FIXTURES SPECIFIED SHALL BE LISTED IN THE DIRECTORY OF CERTIFIED LUMINAIRES AND BALLASTS. ALL INSTALLED FIXTURES SHALL BE CERTIFIED BY THE STATE.
5. TANDEM WIRING:
TANDEM WIRING IS NOT APPLICABLE TO THE SURFACE MOUNTED LUMINAIRES SPECIFIED IN THIS PROJECT.
6. INDIVIDUAL ROOM/AREA CONTROLS:
EACH ROOM AND AREA IN THIS BUILDING SHALL BE EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.
7. UNIFORM REDUCTION FOR INDIVIDUAL ROOMS:
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND WITH MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
8. DAYLIGHT AREA CONTROL:
ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET, WITH WINDOWS, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT, SHALL HAVE AT LEAST 50% OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH.
9. CONTROL OF EXTERIOR LIGHTS:
EXTERIOR MOUNTED FIXTURES ATTACHED TO OR POWERED BY THE ELECTRICAL SERVICE IN BUILDINGS THAT CONTAIN CONDITIONED SPACE SHALL BE CONTROLLED WITH A DIRECTIONAL PHOTOCELL CONTROL ON THE ROOF OR AN ASTRONOMICAL TIME SWITCH AND A CORRESPONDING ELECTRICAL CONTACTOR THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN DAYLIGHT IS AVAILABLE. EXTERIOR LUMINAIRES WITH LAMPS RATED OVER 100 WATTS THAT HAVE A SOURCE EFFICACY OF LESS THAN 60 LUMENS PER WATT SHALL BE CONTROLLED BY A MOTION SENSOR.



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IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICE
 APPL # 01-110097
 DATE: APR 09 2009
 FILE NUMBER: _____

College of San Mateo
 Site Package
 San Mateo, CA
 Developed for
 San Mateo County Community College District

| Date | Revision | Description |
|------|----------|-------------|
| | | |

| Revision | Description | Date |
|----------|-------------|------|
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|---|-------------|
| Job No. | 300085 |
| Date | 09 APR 2009 |
| Drawn by | FF/AA |
| Checked by | TS |
| Scale | AS SHOWN |
| Pool Bldg. Title-24 Forms & Lighting Fixture Schedule | |
| E10.02 | |