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

PROJECT NAME: INLAND EMPIRE TRANSPORTATION MANAGEMENT CENTER –IETMC
DATE: 07/22/07
PROJECT ADDRESS: 13892 VICTORIA STREET, FONTANA CA 92336
PRINCIPAL DESIGNER-LIGHTING: CYRIL DAVIES
TELEPHONE: 714-567-2637
Building Permit #
DOCUMENTATION AUTHOR / METHOD OF COMPLIANCE: CYRIL DAVIES
TELEPHONE: 714-567-2637
Checked by/Date
Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS: 07/22/07 | BUILDING CONDITIONED FLOOR AREA | CLIMATE ZONE

BUILDING TYPE: ☐ NONRESIDENTIAL ☐ HIGH RISE RESIDENTIAL ☐ HOTEL/MOTEL GUEST
☐ CONDITIONED SPACES ☐ UNCONDITIONED SPACES ☐ INDOOR / OUTDOOR SIGNS

PHASE OF CONSTRUCTION: ☐ NEW CONSTRUCTION ☐ 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 need 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	SIGNATURE	DATE
CYRIL DAVIES		07/22/07

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 the lighting requirements contained in the applicable parts of Sections 110, 119, 130 through 132, 146,148 and 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 (10-103a3).
☐ The operation & maintenance information meets the requirements of Part 6 (10-103c).
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 5537.2 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 DESIGNERS NAME	SIGNATURE	DATE	LIC. #
CYRIL DAVIES		07/22/07	E17631

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, Parts 3 of 4	Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed
☐ LTG-1-C, Parts 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 Sign Worksheet In Chapter 6, Outdoor Lighting and Signs Chapter)

CERTIFICATE OF COMPLIANCE (Part 3 of 4) LTG-1-C

PROJECT NAME: INLAND EMPIRE TRANSPORTATION MANAGEMENT CENTER –IETMC
DATE: 07/22/07

CONTROLS FOR CREDIT IN CONDITIONED AND UNCONDITIONED SPACES

CONTROL LOCATION (Room # or Dwa #)	CONTROL IDENTIFICATION	CONTROL TYPE (Occ Sensor, Daylight, Dimming, etc)	LUMINAIRES CONTROLLED TYPE	LUMINAIRES CONTROLLED # OF LUMINAIRES	NOTE TO FIELD

INDOOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

PROJECT NAME: INLAND EMPIRE TRANSPORTATION MANAGEMENT CENTER –IETMC
DATE: 07/22/07

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Luminaire A	Luminaire B	Lamps/Ballasts C	D	E	F	Installed Watts G	H	I	J
Name	Type Description	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballasts per Luminaire	Watts per Luminaire	✓ Check if CEC	Number of Luminaires	Installed Watts (G x I)
A1	2'x 4' PARABOLIC FLUORESCENT	T8	2	32	1	58		14	812
A2	2'x 4' PARABOLIC FLUORESCENT	T8	3	32	2	85		8	680
B	4' ARCHITECT WRAPAROUND FLUORESCENT	T8	2	32	1	58		64	3712
D1	4' STRIP FLUORESCENT	T8	2	32	1	58		48	2784
D2	4' INDUSTRIAL FLUORESCENT	T8	2	32	1	58		61	3538
F1	4' DIRECT/INDIRECT FLUORESCENT	T5HO	1	54	1	64		71	4544
F2	2'x 4' FLUORESCENT	T5	2	28	1	64		49	3136
F4	DOWNLIGHT	CFL	1	26	1	28		80	2240
F4A	DOWNLIGHT	CFL	1	42	1	45		---	---
F5	LINEAR FLUORESCENT	T5HO	1	54	1	64		---	---
F5A	LINEAR FLUORESCENT	T5HO	1	54	1	64		52	3328
F5B	LINEAR FLUORESCENT	T5HO	1	39	1	40		16	640
F5C	LINEAR FLUORESCENT	T5HO	1	39	1	40		191	7640
F7	COMPACT FLUORESCENT, FIXTURE	CFL	1	20	1	24		6	144
F8	LINEAR STRIP	T5HO	1	54	1	64		51	3264
F9	DOWNLIGHT	CFL	1	42	1	45		12	540
F10	LINEAR FIXTURE	T5HO	1	39	1	40		11	440
F11	DOWNLIGHT	CFL	1	26	1	28		---	---
F12	LINEAR FLUORESCENT	T5	1	14	1	18		6	108
F13	DOWNLIGHT	MR16	1	37				13	481
F14	DOWNLIGHT	MR16	1	50				5	250

PAGE TOTAL: 38,281
BUILDING TOTAL (sum of all pages) +
PORTABLE LIGHTING (From LTG-3-C) +
CONTROL CREDIT (from LTG-4-C) +
ADJUSTED ACTUAL WATTS =

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES

PROJECT NAME: INLAND EMPIRE TRANSPORTATION MANAGEMENT CENTER –IETMC
DATE: 07/22/07

A ROOM OR ZONE D CONDITIONED AREAS	B LIGHTING CONTROL DESCRIPTION	C PLANS REFERENCE	D ROOM AREA (ft²)	E DAYLIGHTING WINDOW WALL RATIO	F Glazing VLT	G SKYLIGHT EFFECTIVE APERTURE	H WATTS OF CONTROL LIGHTING	I LIGHTING ADJUSTMENT FACTOR [1]	J CONTROL CREDIT WATTS [H X I]
122	OS, Sab	E-210	432				464	0.2	93
124,125, 126,127,128	OS, SD, Sab	E-210	1606				2253	0.25	563
134,135,136	OS, Sab	E-210	554				378	0.2	76
138	OS, Sabc, SD	E-210	854				1334	0.25	334
131	OS, Sab	E-210	1152				1475	0.2	295
132	OS, Sab	E-210	1152				1357	0.2	271
133	OS, Sab	E-210	729				944	0.2	189
139	OS, Sab	E-210	208				236	0.2	47
116	OS, Sab	E-210	956				1239	0.2	248
108,109, 110,111,112	OS, Sab, SD	E-210	758				1449	0.25	362
104,105	OS, Sab	E-210	488				378	0.2	76
230	SD, Sab	E-211	6085				16974	0.25	4244
205	OS, SD, Sab	E-211	937				1242	0.25	311
206	OS, SD, Sab	E-211	1044				1449	0.25	362
234	OS, SD, Sab	E-211	434				1380	0.25	345
213	OS, Sab	E-211	606				460	0.2	92
204	OS, SD, Sab	E-211	380				378	0.25	95

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 8003
BUILDING TOTAL → 8003
Enter in LTG-2-C: Lighting Control Credit

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

PROJECT NAME
DATE: 07/22/07

INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

	INSTALLED WATTS
INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)	
PORTABLE LIGHTING (From LTG-3-C)	+
LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	-
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	=
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	-
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	=

ALLOWED INTERIOR 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 WATTS
ALLOWED LIGHTING POWER	

ALTERNATE COMPLIANCE

✓
☐ PERFORMANCE METHOD
☐ COMMON LIGHTING SYSTEM (from LTG-8-C)

ALLOWED INTERIOR LIGHTING POWER FOR UNCONDITIONED SPACE (From LTG-5-C) ____ Watts

MANDATORY LIGHTING MEASURES FOR INDOOR AND DAYLIT AREAS
MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

CONTROL LOCATIO (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming,Photosensor, etc.)	SPACE CONTROLLED Lists the location of controlled lights	✓ If Control is for Daylighting	NOTE TO FIELD

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

PROJECT NAME: INLAND EMPIRE TRANSPORTATION MANAGEMENT CENTER –IETMC
DATE: 07/22/07

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 requires 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 parenthesis. 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, LTG-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	
☐ LTG-3-A: Automatic Daylighting Controls Document Equipment requiring acceptance testing	

INDOOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

PROJECT NAME: INLAND EMPIRE TRANSPORTATION MANAGEMENT CENTER –IETMC
DATE: 07/22/07

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Luminaire A	Luminaire B	Lamps/Ballasts C	D	E	F	Installed Watts G	H	I	J
Name	Type Description	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballasts per Luminaire	Watts per Luminaire	✓ Check if CEC	Number of Luminaires	Installed Watts (G x I)
F15	LINEAR FLUORESCENT	T5	1	14	1	18		16	288
F16	LINEAR FLUORESCENT	T5	1	14	1	18		1	18
F17	PENDANT FIXTURES	CFL	1	26	1	28		3	84
F18	PENDANT FIXTURES	T5	1	40	1	40		2	80
G	SURFACE MOUNTED LUMINAIRE	CFL	2	26	1	54		8	432
M2	DOCKLIGHT SURFACE MOUNTED	MH	1	70	1	95		1	95

PAGE TOTAL: 997
BUILDING TOTAL (sum of all pages) +: 39,278
PORTABLE LIGHTING (From LTG-3-C) +:
CONTROL CREDIT (from LTG-4-C) +: 8,003
ADJUSTED ACTUAL WATTS =: 31,275

INDOOR LIGHTING POWER ALLOWANCE LTG-5-C

PROJECT NAME: INLAND EMPIRE TRANSPORTATION MANAGEMENT CENTER –IETMC
DATE: 07/22/07

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES

BUILDING CATEGORY (FROM § 146 Table 146-B)	WATTS PER (ft²) [1]	COMPLETE BLDG. AREA	ALLOWED WATTS

AREA CATEGORY METHOD - CONDITIONED SPACES

A AREA CATEGORY (From §146 Table 146-C)	B WATTS PER (ft²) [1]	C AREA (ft²)	D ALLOWED WATTS
OFFICES	1.2	9456	11347
STORAGE/RESTROOM	0.6	2852	1712
LOBBY	1.5	998	1451
PRECISION COMMERCIAL WORK TMC, ERC, EOC COMPUTER			
COMMUNICATION ROOM CAD/NETWORK SERVER ROOM	1.3	11099	14429
CONFERENCE ROOM	1.4	510	714
CHP TEL ROOM, IDF ROOM, RADIO VAULT, CALTRANS TEL ROOM	1.3	733	953
KITCHEN	1.6	606	970
HALLWAY CORRIDOR	0.6	5684	3410
RADIO VAULT (PRECISION WORK)	1.3	956	1243
PROJECTION ROOM (PRECISION WORK)	1.3	1056	1373
SUPPORT AREAS (SHIPPING & RECEIVING, SUPPLY GROUP, SNACK BAR)	0.6	936	562
ELECTRICAL/MECHANICAL ROOM	0.7	4523	3166
		39407	41330
TOTALS		AREA	WATTS

TAILORED METHOD - CONDITIONED SPACES

TOTAL ALLOWED WATTS (From LTG-6-C)

UNCONDITIONED SPACES

A Complete Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C)	B WATTS PER (ft²) [1]	C AREA (ft²)	D ALLOWED WATTS
TOTALS		AREA	WATTS

TAILORED METHOD - UNCONDITIONED SPACES

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

PROJECT

INLAND EMPIRE TMC — Caltrans — CHP — DISTRICT 8 / INLAND DIVISION
13892 VICTORIA STREET
FONTANA, CA 92336

CLIENT

DGS
STATE OF CALIFORNIA
DEPARTMENT OF GENERAL SERVICES
REAL ESTATE SERVICES DIVISION
PROJECT MANAGEMENT BRANCH
400 R STREET, SUITE 5100
SACRAMENTO, CA 95814
PROJECT DIRECTOR : REG EDEN
TELEPHONE : (916) 376-1719

DESIGNER

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CONSULTANTS

STATUS

100% CONSTRUCTION DOCUMENTS SEPT. 7, 2007

ISSUE

MARK	DATE	DESCRIPTION

PROJECT NO: 60004333.4000
DRAWN BY: L. DICKENS
CHECKED BY:

KEY PLAN

SHEET TITLE

TITLE 24 LIGHTING COMPLIANCE

E-700

DWG: Q:\Caltrans\IETMC\500 CAD\E\Sheet\E-700.dwg User: jimenezv
DATE: Sep 05, 2007 - 9:00:45 am Images:
Xrefs: *XBDR* *XIETMC-ARP02