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

PROJECT NAME: City of Palm Springs Animal Care Facility		DATE: 11/18/2009
PROJECT ADDRESS: Palm Springs		Building Permit #
PRINCIPAL DESIGNER - LIGHTING: Gerry L. Green	TELEPHONE: (858) 676-9776	
DOCUMENTATION AUTHOR: Kruse & Associates	TELEPHONE: (858) 676-9776	Checked by/Date Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS	BUILDING CONDITIONED FLOOR AREA	CLIMATE ZONE
11/18/09	19,638 Sq.Ft.	15

- BUILDING TYPE: [X] NONRESIDENTIAL [ ] HIGH RISE RESIDENTIAL [ ] HOTEL/MOTEL GUEST ROOM [X] CONDITIONED SPACES [X] UNCONDITIONED SPACES [ ] INDOOR & OUTDOOR SIGNS
- PHASE OF CONSTRUCTION: [X] NEW CONSTRUCTION [ ] ADDITION [ ] ALTERATION
- METHOD OF LIGHTING COMPLIANCE: [X] COMPLETE BUILDING [ ] AREA CATEGORY [ ] TAILORED [ ] PERFORMANCE [ ] 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	SIGNATURE	DATE
Keith Kruse	[signature]	11/18/09

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 the lighting requirements contained in Sections 110, 119, 130 - 132, 146, 148 & 149 of Title 24, Part 6.

- [X] The plans & specifications meet the requirements of Part 6 (Sections 10-103a).
- [ ] The installation certificates meet the requirements of Part 6 (10-103a 3).
- [ ] The operation & maintenance information meet 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.)

- [X] 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 the exemption to 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	SIGNATURE	DATE	LIC. #
Gerry L. Green	[signature]	11/18/09	15691

LIGHTING MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures: SHEET E6.2

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

- [X] 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
- [X] LTG-1-C, Part 3 of 4: Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed
- [X] LTG-1-C, Part 4 of 4: Certificate of Compliance. Part 4 of 4 submittal is required when lighting controls are installed
- [X] LTG-2-C: Indoor Lighting Schedule
- [X] LTG-3-C: Portable Lighting Worksheet
- [X] LTG-4-C: Lighting Controls Credit Worksheet
- [X] 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

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

PROJECT NAME: City of Palm Springs Animal Care Facility — DATE: 11/18/2009

INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

	INSTALLED WATTS
INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)	21,813
PORTABLE LIGHTING (From LTG-3-C)	0
LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	207
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	21,606
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	868
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	0
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	868

ALLOWED INDOOR LIGHTING POWER FOR CONDITIONED SPACES

- [X] COMPLETE BUILDING METHOD (From LTG-5-C)
- [ ] AREA CATEGORY METHOD (From LTG-5-C)
- [ ] TAILORED METHOD (From LTG-5-C)

ALLOWED LIGHTING POWER — ALLOWED WATTS: 21,602

ALTERNATE COMPLIANCE

- [ ] PERFORMANCE METHOD
- [ ] COMMMON LIGHTING SYSTEM (From LTG-8-C)

ALLOWED INDOOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C): 1,121

MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

CONTROL LOCATION (Room #)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, etc.)	SPACE CONTROLLED	Check if Daylighting	NOTE TO FIELD
--	S	SINGLE LEVEL	ENTIRE SPACE		
--	SaSb	DUAL LEVEL	ENTIRE SPACE		
EXTERIOR	TIME CLOCK	AUTO TIME SWITCH	ENTIRE SPACE		
--	AUTOMATIC SHUT-OFF	AUTO T.S. 2HR OVER.	ENTIRE SPACE		

NOTES TO FIELD - For Building Department Use Only

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

PROJECT NAME: City of Palm Springs Animal Care Facility — DATE: 11/18/2009

CONTROLS FOR CREDIT IN CONDITIONED AND UNCONDITIONED SPACES

CONTROL LOCATION (Room # or Dwg. #)	CONTROL IDENTIFICATION	CONTROL TYPE (Occupant, Daylight, Dimming, etc.)	LUMINAIRES CONTROLLED TYPE	# OF LUMINAIRES	NOTE TO FIELD
Clinic		Occ Sensor - <= 250 sqft	S	10	
Clinic		Occ Sensor - <= 250 sqft	SA	2	
Clinic		Occ Sensor - <= 250 sqft	U	10	

NOTES TO FIELD - For Building Department Use Only

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

PROJECT NAME: City of Palm Springs Animal Care Facility — DATE: 11/18/2009

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:
Before an occupancy permit is granted for a newly constructed building or space, or a new lighting system 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:
[X] LTG-2-A: Lighting Control Acceptance Document - Occupancy Sensor Acceptance - Manual Daylight Controls Acceptance - Automatic Time Switch Control Acceptance Equipment requiring acceptance testing: TITLE 24 CONROL PANEL	AGENT TO BE SELECTED BY OWNER
[ ] LTG-3-A: Automatic Daylighting Controls Acceptance Document Equipment requiring acceptance testing	

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

PROJECT NAME: City of Palm Springs Animal Care Facility — DATE: 11/18/2009

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Name	Type Description	C Lamp Type	D Number of Lamps per Luminaire	E Watts per Lamp	F Number of Ballast per Luminaire	G Watts per Luminaire	H CEC Default? Yes	H No	I Number of Luminaires	J Installed Watts (G x I)
A	(4) 2 ft Fluorescent T8 Elec	F17T8	4	17	1.0	63.0	X		7	441
AA	(3) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	3	32	1.0	93.0	X		1	93
AB	(1) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	1	32	1.0	32.0	X		9	288
AB2	(1) 2 ft Fluorescent T8 Elec	F17T8	1	17	1.0	22.0	X		1	22
AD	(3) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	3	32	1.0	93.0	X		6	558
AE	(14) 75w Surface Mount Incandescent	75W	14	75			X		1	1,050
AG	(1) 26w Compact Fluorescent Triple 4 Pin Elec	CFTR26W/GX24q-3	1	26	1.0	28.0	X		1	28
AJ	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X		19	1,178
B	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X		16	992
C	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X		3	186
D	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X		77	4,774
E	(3) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	3	32	1.0	93.0	X		24	2,232
EA	(3) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	3	32	1.0	93.0	X		4	372
F	70w Metal Halide	M70	1	70	1.0	86.0	X		7	602
J	(3) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	3	32	1.0	93.0	X		22	2,046
K	(2) 26w Compact Fluorescent Quad 2 Pin	CFQ26W/G24d-3	2	26	1.0	57.0	X		3	171
L	(4) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	4	32	2.0	124.0	X		1	124
M	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X		30	1,860
P	(1) 26w Compact Fluorescent Quad 2 Pin	CFQ26W/G24d-3	1	26	1.0	28.0	X		1	28
Q	(3) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	3	32	1.0	93.0	X		1	93
S	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X		22	1,364
SA	(2) 2 ft Fluorescent T8 Elec	F17T8	2	17	1.0	33.0	X		2	66
U	(1) 32w Compact Fluorescent Triple 4 Pin Elec	CFTR32WGX24q-3	1	32	1.0	35.0	X		28	980
V	(1) 32w Compact Fluorescent Triple 4 Pin Elec	CFTR32WGX24q-3	1	32	1.0	35.0	X		13	455

PAGE TOTAL	20,003
BUILDING TOTAL (sum of all pages)	21,813
PORTABLE LIGHTING (From LTG-3-C)	0
CONTROL CREDIT (From LTG-4-C)	207
ADJUSTED ACTUAL WATTS	21,606

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

PROJECT NAME: City of Palm Springs Animal Care Facility — DATE: 11/18/2009

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Name	Type Description	C Lamp Type	D Number of Lamps per Luminaire	E Watts per Lamp	F Number of Ballast per Luminaire	G Watts per Luminaire	H CEC Default? Yes	H No	I Number of Luminaires	J Installed Watts (G x I)
W	(1) 32w Compact Fluorescent Triple 4 Pin Elec	CFTR32WGX24q-3	1	32	1.0	35.0	X		15	525
Y	(1) 32w Compact Fluorescent Triple 4 Pin Elec	CFTR32WGX24q-3	1	32	1.0	35.0	X		1	35
Z	50w Low Voltage Halogen	50 Watt Lamp	1	50		50.0	X		25	1,250

PAGE TOTAL	1,810
BUILDING TOTAL (sum of all pages)	21,813
PORTABLE LIGHTING (From LTG-3-C)	0
CONTROL CREDIT (From LTG-4-C)	207
ADJUSTED ACTUAL WATTS	21,606

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

PROJECT NAME: City of Palm Springs Animal Care Facility — DATE: 11/18/2009

INSTALLED LIGHTING POWER FOR UNCONDITIONED SPACES

Name	Type Description	C Lamp Type	D Number of Lamps per Luminaire	E Watts per Lamp	F Number of Ballast per Luminaire	G Watts per Luminaire	H CEC Default? Yes	H No	I Number of Luminaires	J Installed Watts (G x I)
M	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X		3	186
N	(4) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	4	32	2.0	124.0	X		5	620
S	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X		1	62

PAGE TOTAL	868
BUILDING TOTAL (sum of all pages)	868
CONTROL CREDIT (From LTG-4-C)	0
ADJUSTED ACTUAL WATTS	868

PORTABLE LIGHTING WORKSHEET LTG-3-C

PROJECT NAME: City of Palm Springs Animal Care Facility — DATE: 11/18/2009

TABLE 1 - PORTABLE LIGHTING NOT SHOWN ON PLANS FOR OFFICE AREAS >250 SQUARE FEET

A ROOM # OR ZONE ID	B DEFAULT (W/sqft)	C AREA (SF)	D TOTAL WATTS (B X C)
	TOTAL	0	0

TABLE 2 - PORTABLE LIGHTING SHOWN ON PLANS FOR OFFICE AREAS >250 SQUARE FEET

A ROOM # OR ZONE ID	B PORTABLE LIGHTING Description	# OF FIXT.	C LUMIN. WATTS PER FIXTURE	D TASK AREA (SF)	E # OF TASK AREAS	F TOTAL AREA (SF) (D x E)	G TOTAL WATTS (C x E)
					TOTAL	0	0

TABLE 3 - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE AREAS > 250 SQUARE FEET

ROOM # OR ZONE ID	TOTAL AREA (SF)
TOTAL	0

Designer needs to provide detailed documentation that the lighting level provided by the overhead lighting meets the needs of the space. The details include luminaire types and mounting locations relative to work areas.

BUILDING SUMMARY - PORTABLE LIGHTING

BUILDING SUMMARY	TOTAL AREA (SF) (FROM TABLES 1+2+3)	TOTAL WATTS
BUILDING TOTAL	0	0

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

CONTROL CREDITS FOR CONDITIONED SPACES

PROJECT NAME: City of Palm Springs Animal Care Facility — DATE: 11/18/2009

A ROOM # ZONE ID CONDITIONED AREAS	B LIGHTING CONTROL DESCRIPTION	C PLAN REF.	D ROOM AREA (SF)	E DAYLIGHTING WINDOW WALL RATIO	F GLAZING VLT	G SKYLIGHT EFFECTIVE APERTURE	H WATTS OF CONTROL LIGHTING	I LIGHTING ADJUST. FACTOR	J CONTROL CREDIT WATTS (H X I)
Clinic	Occ Sensor - <= 250 sqft	S	19,638				620	0.20	124
Clinic	Occ Sensor - <= 250 sqft	SA	19,638				66	0.20	13
Clinic	Occ Sensor - <= 250 sqft	U	19,638				350	0.20	70

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

PAGE TOTAL	207
BUILDING TOTAL	207

Enter in LTG-2-C: Lighting Control Credit

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Not for Construction

PALM SPRINGS ANIMAL CARE FACILITY

4575 E. MESQUITE AVE.
PALM SPRINGS, CA 92262

CITY OF PALM SPRINGS
PROJECT NO. CP. 07-24

APN: 680-020-010

Issue

Rev	Date	By	Description
1	11/23/09		BLDG. PERMIT SET
2	01/18/10		BID SET

Drawn By
Checked By
Job No.
Issue Date
Scale NTS

Reference North
Drawing Title

TITLE-24

BID SET

RECEIVED JAN 19 2010 WLB ESTIMATING

PREVAILING WAGE JOB

REGISTERED PROFESSIONAL ENGINEER GERALD L. GREEN No. E015691 Exp. 06-30-10 ELECTRICAL STATE OF CALIFORNIA

KRUSE & ASSOCIATES
12245 WORLD TRADE DRIVE, STE. A
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E6.1

Sheet

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