STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Interior Improvements for Record Department of Garden Grove Police Department	Date Prepared: 08. 19. 16

A. General Information

Climate Zone: 9	Conditioned Floor Area : 2, 462		
	Unconditioned Floor Area :		
Building Type:	☒ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel
☐ Schools	☐ Relocatable Public Schools	☒ Conditioned Spaces	☐ Unconditioned Spaces
Phase of Construction:	☐ New Construction	☐ Addition	☒ Alteration
Method of Compliance:	☐ Complete Building	☒ Area Category	☐ Tailored
Project Address: 11301 Acacia Pkwy, Garden Grove, CA 92840			

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
X		NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
X		NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
X		NRCC-LTI-03-E	Indoor Lighting Power Allowance
	X	NRCC-LTI-04-E	Tailored Method Worksheets
	X	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

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C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
1.	Installed Lighting NRCC-LTI-01-E, page 4	+	2, 052	Installed Lighting NRCC-LTI-01-E, page 4	+	
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3	+	0			
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
4.	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	2, 052	Adjusted Installed Lighting Power (row 1 minus row 3)	=	
5.	Complies ONLY if Installed ≤ Allowed			Complies ONLY if Installed ≤ Allowed		
6.	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1		2, 221	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1		

D. Declaration of Required Installation Certificates

Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
X		NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
X		NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
	X	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
	X	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
	X	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
	X	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

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E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
	X	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
	X	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
	X	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

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G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- ☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
- ☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- ☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire Watts Per Square Foot							Office Location	Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If F ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	G05 x G07	Identify Office area in which these portable luminaires are installed	Pass	Fail
									☐	☐
									☐	☐
									☐	☐
									☐	☐
									☐	☐
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

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A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
			How wattage was determined						
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
1	LED 2' x 2' Recessed Fixture	36	☒	☐	57	2, 052	Offices, Lobby,	☐	☐
			☐	☐			Restroom, Break Room	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
INSTALLED WATTS PAGE TOTAL:						2, 052	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Stephen R. Zajicek	Documentation Author Signature: [signature]
Company: FBA Engineering	Signature Date: 08. 19. 16
Address: 150 Paularino Avenue, Suite A120	CEA Certification Identification (if applicable): E10372
City/State/Zip: Costa Mesa, California 92626	Phone: (949)852-9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Stephen R. Zajicek	Responsible Designer Signature: [signature]
Company : FBA Engineering	Date Signed: 08. 19. 16
Address: 150 Paularino Avenue, Suite A120	License: E10372
City/State/Zip: Costa Mesa, California 92626	Phone: (949)852-9995

md& Architects

Melzer Deckert & Ruder Architects, Inc.
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Revisions

⚠ 10-20-16

Plan Check #: -

AP #: -

Interior Improvements for Records Department of
Garden Grove Police Department
11301 ACACIA PKWY,
Garden Grove, CA 92840

Consultants

REGISTERED PROFESSIONAL ENGINEER STEPHEN R. ZAJICEK No. E 10372 Exp. 09-30-16 ELECTRICAL STATE OF CALIFORNIA

FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 325.070

Issue Date: 09-12-2016

MDR Ref. No.:

Scale: NONE

Drawn By: FBA

Title:
TITLE 24
INDOOR LIGHTING

Sheet No.
E-0.2

7-29-16 PROGRESS SET

FBA Engineering / Plot Date: 10/28/2016 8:46 AM / Plotted by: Cuong Nguyen / Drawing Location: I:\325\070\E-0.2_325.070.dwg