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

PROJECT NAME: RIO VISTA E.O.C. REMODEL **DATE:**

PROJECT ADDRESS: 350 MAIN STREET, RIO VISTA, CA 94571 — **Climate Zone:** 3 — Building CFA: 900FT 2 — Unconditioned Floor Area:

GENERAL INFORMATION

BUILDING TYPE:	[X] NONRESIDENTIAL	[ ] HIGH RISE RESIDENTIAL	[ ] HOTEL/MOTEL GUEST
[ ] Schools	[ ] Reloadable Public School	[X] Conditioned Spaces	[ ] Unconditioned Spaces
PHASE OF CONSTRUCTION:	[ ] New Construction	[ ] Addition	[X] Alteration
METHOD OF COMPLIANCE:	[ ] Complete Building	[X] Area Category	[ ] Tailored

Document Author's Declaration Statement

* I Certify that this Certificate of Compliance documentation is accurate and complete.

Name: A. Gustav Sharvey	Signature:
Company: Szeto & Associates	Date: 6/24/11
Address: 951 Post Street	EA# CEPE#
City/State/Zip: San Francisco, CA, 94109	Phone: (415) 346-9197

Principal Lighting Designer's Declaration Statement

* I am eligible under Division 3 of the California Business and Professions code to accept responsibility for the lighting Design.
* This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Page 1 and 6 of the California Code of Regulations.
* The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application

Name: A. Gustav Sharvey	SIGNATURE:
Company: Szeto & Associates	Phone: (415) 346-9197
Address: 951 Post Street	License #E9711
City/State/Zip: San Francisco, CA, 94109	Date: 4/15/11

LIGHTING MANDATORY MEASURES

Indicate location on building plans of Mandatory Measures Note Block:________

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

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

[X]	LTG-1-C, Page 1 through 4	Certificate of compliance. All Pages required on plans for all submittas.
[ ]	LTG-2-C	Lighting Controls Credit Worksheet
[X]	LTG-3-C	Interior Lighting Power Allowance
[ ]	LTG-4-C Pages 1 through 4	Tailored Method Worksheet
[ ]	LTG-5-C Pages 1and 2	Line Voltage Track Lighting Worksheet

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

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

PROJECT NAME RIO VISTA E.O.C REMODEL DATE:

Installation Certificate, LTG-1-INST (Retain a copy and verify form is complete — Field Inspector

Certificate of Acceptance, LTG-2A — 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:

[X] CONDITIONED SPACE [ ] UNCONDITIONED SPACE

[ ] *The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with 146(a)*

Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be for any office include all portable lighting in excess of 0.2 watts per square foot.'claculation of actual indoor lighting power density in accordance with the Exception to 146(a). Therefore, included in the

A	B	C	D	E	E	F	G	H	H
Name or Item Tag	Luminaire Schedule (Type, Lamps, Ballasts): Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable ballast)	Special Features	Watts per Luminare	How wattage was determined: CEC Default from NA8	According to Sec. 130 (d or e)	Number pf Luminaies	Installed watts (CXF)	Field Inspector: Pass	Fail
A	2'X2' FLUW/E. BALLASTS(2) FOR 4-17WT8		63			11	693		
B	SURF. COMPACT FLUW/E. BALLAST, 1PL13		30			2	60		

Installed watts Page Total 755

Building total number of pages 1 — Installed watts Building Total (Sum of all Pages) 755

Enter into LTG-1C Page 4 of 4

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

PROJECT NAME: RIO VISTA E.O.C REMODEL **DATE:**

INDOOR LIGHTING SHCEDULE and FIELD INSPECTION ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 SF, automatic daylighting controls for daylit areas > 2,500 SF, d) shut-off controls, e) display lighting controls, f) tailored lighting controls - general lighting control controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retails > 50,000 SF, in accordance with Section 131.

MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST

Type/Description	Number of Units	Location in Building	Special Features	Field Inspector: Pass	Fail
BY-PASS TIMER	1				

SPECIAL FEATURES INSPECTION CHECKLIST

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of

Field Inspector's Notes or Discrepancies:

ENERGY EFFICIENCY STANDARDS MANDATORY MEASURES

- [✓] THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF A PROGRAMMABLE TIME SWITCH WITH MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS OR AREA CONTROLLED. THE AREA OF OVERRIDE IS NOT TO EXCEED 5000 SQ. FT.
- [✓] ALL FLUORESCENT FIXTURES SPECIFIED FOR THIS PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.
- [✓] ALL ROOMS WITH WINDOWS AND SKYLIGHTS GREATER THAN 250 SQ. FT. THAT ALLOW FOR EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH.
- [✓] EACH ROOM AND AREA WITH FLOOR-TO-FLOOR WALLS IN THIS PROJECT IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR.
- [✓] ALL ROOMS SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
- [✓] ALL EXTERIOR LIGHTING FIXTURES CONTROLLED BY AN ASTRONOMICAL TIME SWITCH, OR A DEVICE WHICH CAN DUPLICATE THE ACTION OF AN ASTRONOMICAL TIME SWITCH.

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

PROJECT NAME: RIO VISTA E.O.C REMODEL DATE:

Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
Installed Lighting (from conditioned LTG-1C page 2)		755	Installed Lighting (from unconditioned LTG-1C page 2)		
Lighting Control Credit Conditioned Spaces (from LTG-2C)	-	0	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	-	
Adjusted Installed Lighting Power	=	755	Adjusted Installed Lighting Power	=	
Complies if Installed is less or equals to Allowed			Complies if Installed is less or equals to Allowed		
Allowed Lighting Power (from LTG-3C)		1247	Allowed Lighting Power (from LTG-3C)		

Required Acceptance Tests

Designer:

*This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, **LTG-2A**. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual Describes the test. 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 appropriatedly. **Forms can be grouped by type of Luminaire controlled.***

Enforcement Agency

***Systems Acceptance.** Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirement. The **LTG-2A** form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In Addition, a Certificated of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of section 10-103(b) of Title 24 Part 6. The field inspector must receive properly filled oute and signed forms before the building can recieve final occupancy. A copy of the **LTG-2A** for each different lighting luminaire control(s) must be provided to the owner of the building for their records.*

Equipment Requiring Testing	Luminaries Controlled: Description	Number of like Controls	Location	LTG-2A: Controls and Sensors and Automatic Daylighting Controls Acceptance
		1		

INDOOR LIGHTING POWER ALLOWANCE LTG-3C

PROJECT NAME: RIO VISTA E.O.C REMODEL DATE:

ALLOWED LIGHTING POWER (CHOSE One Method)

A separate LTG-3C must be filled out for Conditioned and Unconditioned Spaces. Indoor Lighting Power Allowances Listed on this Page are only for: [X] CONDITIONED spaces UNCONDITIONED spaces

COMPLETE BUILDING METHOD - CONDITIONED SPACES

BUILDING CATEGORY (From 146 Table 146E)	WATTS (Per SF)	COMPLETE BLDG. AREA	ALLOWED WATTS
			0
			0
			0
			0
			0
			0
	TOTALS	AREA	WATTS

AREA CATEGORY METHOD - Part A

A	B	C	D
AREA CATEGORY (From 146 Table 146F)	WATTS (Per SF)	AREA (SF)	ALLOWED WATTS
MULTIPURPOSE	1.4	856	1196
OPERATOR	1.1	46	51
DINNING	1.1	526	579
DINNING ORNAMENTAL ALLOWANCE	1	526	526
Sum of Additional Allowed Watts from Area Category Method - Part B (From table below)			
	TOTALS	900	1247
		AREA	WATTS

TAILORED METHOD - CONDITIONED SPACES

Total allowed watts for CONDITIONED spaces using the Tailored Method

UNCONTIONED SPACES (Using either the Complete Building or the Area Category Method)

A	B	C	D
Complete Building and Area Category Methods CATEGORY (From 146 Table 146E-F)	WATTS (Per SF)	AREA (SF)	ALLOWED WATTS
			0
			0
			0
			0
			0
			0
	TOTALS	AREA	WATTS

TAILORED METHOD - UNCONDITIONED SPACES

Total allowed watts for UNCONDITIONED spaces using the Tailored Method

LINE VOLTAGE TRACK LIGHTING WORKSHEET (Page 2 of 2) LTG-5-C

PROJECT NAME:PROJECT NAME: RIO VISTA E.O.C REMODEL DATE:

[ ] METHOD 3 - USE THE HIGHER OF: 12.5 WATTS/LINEAR FOOT OF TRACK - OR VA RATING OF INTEGRAL CURRENT LIMITER

A	B	C	D	E	F
Track or Name #	Linear Feet of Track	(W/LF)	BXC (W)	VA Rating of Integral Current Limiter	Larger of (D OR E)
				TOTAL	

[ ] **METHOD 4 - DEDICATED TRACK LIGHTING OVERCURRENT PROTECTION PANEL**

- [ ] *One of four options available for determining wattage of line-voltage busway and track rated for 20 amperes or less*
- [ ] *Overcurrent protection panel is listed as defined in 101 in accordance with 130(d)3B(iv)a.*
- [ ] *Overcurrent protection panel is used only with track lighting in accordance with 130(d)3B(iv)b.*
- [ ] *Overcurrent protection panel is permanently installed in an electrical equipment room or permanently installed adjacent to the lighting panel board providing supplementary overcurrent protection for the track lighting circuits served by the supplementary overcurrent protection panel in accordance with 130(d)3B(iv)c.*
- [ ] *Overcurrent protection panel is prominently labeled in accordance with 130(d)3B(iv)d.*

OVERCURRENT PROTECTION PANEL

A	B	C	D	E
Name OR ID	Voltage of the Branch Circuit	Complete list of Amperage Rating for Each Device Installed in the Panel	Sum of the Ampere Rating of all Devices	Sum of the Ampere Ratings of all of the Devices X the Branch Circuit Voltage (BXD)
			TOTAL	

[ ] *TOTALS OF ALL METHODS USED TO DETERMINE THE WATTAGE OF LINE-VOLTAGE TRACK AND PLUG-IN BUSWAY*

ENTER TOTAL FROM METHOD 1	
ENTER TOTAL FROM METHOD 2	
ENTER TOTAL FROM METHOD 3	
ENTER TOTAL FROM METHOD 4	
TOTAL TRACK/BUSWAY WATTAGE:	

REGISTERED PROFESSIONAL ENGINEER A. GUSTAV SHARVEY No. E9711 Exp. 09.30.12 ELECTRICAL STATE OF CALIFORNIA

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Consulting Electrical Engineers
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G U T I E R R E Z / A S S O C I A T E S
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1616 Franklin St., Ste. 202
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510 839-3311

LICENSED ARCHITECT EFREN GUTIERREZ No. C9232 REN. 6-30-11 STATE OF CALIFORNIA

Revisions:

RIO VISTA E.O.C. REMODEL

RIO VISTA EMERGENCY OPERATION CENTER
350 MAIN STREET, RIO VISTA, CA 94571
CITY OF RIO VISTA CITY HALL
1 MAIN STREET, RIO VISTA, CA 94571

SHEET REFERENCE: TITLE 24 COMPLIANCE

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