SIGN LIGHTING

CEC-NRCC-LTS-01-E(Revised 08/16)



CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 1 of 5)
Project Name:	Date Prepared:

A. General Information			
Project Address:			
Location of Sign	Outdoor Signs	Indoor Signs	
Phase of Sign Construction	New Signs	Sign Alterations	
Type of Lighting Control	New Lighting Controls	Replaced Lighting Controls	Not Installing Lighting Controls
This Certificate of Compliance incl	udes the following components (cl	heck all that apply):	= = = =
Mandatory Measures (Lighting			thting Sources

1. Mandatory Sign Lighting Controls

NOTES:

Yes

- 1. The same responsible person may install both the sign lighting power and the sign lighting controls, or a different responsible person may install the sign lighting controls than the responsible person installing the sign lighting power.
- 2. The Mandatory Measures (sign lighting controls) are required for compliance with the sign lighting Standards. If the person responsible for installing the sign lighting power is not also responsible for the sign lighting controls, then the owner of the sign, general contractor, or architect shall be responsible to have the sign lighting controls installed.
- 3. If more than one person has responsibility for compliance, each responsible person shall prepare and sign a Certificate of Compliance and an Installation Certificate applicable to the portion of construction for which they are responsible; alternatively, the person with chief responsibility for construction shall prepare and sign the Certificate of Compliance Declaration Statement for the entire construction (e.g. a C-10 contractor may complete parts 1a and 1b on one compliance document and a C-45 contractor may complete parts 2a and 2b on a separate compliance document the Responsible Designer shall submit the two compliance documents together for the same complete installation).

I have responsibility for installing the sign lighting controls: Yes, I have responsibility for the sign lighting controls, and will complete parts 1a and 1b of this compliance document someone else will complete parts 1a and 1b of this compliance document. 1a. Check Yes or No for all of the following statements: There are existing sign lighting controls that comply with the applicable provisions of §110.9 and §130.3 Yes No There are no existing sign lighting controls and I will be installing sign lighting controls that comply with the applicable provisions of §110.9 and §130.3 Yes No There are existing sign lighting controls that do not comply with the applicable provisions of §110.9 and §130.3 and I will be installing sign lighting sign lighting controls that comply with the applicable provisions of §110.9 and §130.3 and I will be installing sign lighting controls that comply with the applicable provisions of §110.9 and §130.3

No

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	Mandatory Sign Lighting Controls		_			
	If the person signing the Certificate of Compliance Declaration Statement on this NRCC-LTS-01-E is responsible for complying with					
	sign lighting control requirements, that person shall answer all of the following questions:					
If th	here are construction documents, indicate where on the building plans the					
ma	ndatory measures (sign lighting control) note block can be located:					
1	§130.3(a)1. All indoor sign lighting is controlled with an automatic time-switch control or astronomical time-	Υ	N	NA		
1	switch control.					
	§130.3(a)2A. All outdoor sign lighting is controlled with a photocontrol in addition to an automatic time-	Υ	Ν	NA		
_	switch control, or an astronomical time-switch control.					
2	EXCEPTION to Section 130.3(a)2A: Outdoor signs in tunnels, and signs in large permanently covered outdoor		Y			
	areas that are intended to be continuously lit, 24 hours per day and 365 days per year.					
	§130.3(a)2B. All outdoor sign lighting that is ON both day and night is controlled with a dimmer that provides					
	the ability to automatically reduce sign lighting power by a minimum of 65% during nighttime hours. Signs that					
	are illuminated at night and for more than 1 hour during daylight hours shall be considered ON both day and					
3	night.					
	EXCEPTION to Section 130.3(a)2B: Outdoor signs in tunnels and large covered areas that are intended to be			NA		
	illuminated both day and night.					
	§130.3(a)3. Demand Responsive Electronic Message Center Control. An Electronic Message Center (EMC)					
	having a new connected lighting power load greater than 15 kW has a control installed that is capable of	YN		N/A		
4	reducing the lighting power by a minimum of 30% when receiving a demand response signal.					
	EXCEPTION to Section 130.3(a)3: Lighting for EMCs that is not permitted by a health or life safety statute,			NA		
	ordinance, or regulation to be reduced by 30%.					
Field	d Inspector Notes:					

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2. Mandatory Sign Lighting Measures

I have responsibility for installing the sign lighting

Yes, I have responsibility for the sign lighting, and will complete parts 2a and 2b of this compliance document

No, I do not have responsibility for installing the sign lighting. Someone else will complete parts 2a and 2b of this compliance document.

2a. Maximum Allowed Lighting Power Method of Compliance

Certificate of Compliance and Field Inspection Energy Checklist.

Complete this part if there are signs using the maximum allowed lighting power method of compliance. (Complete part 2b of this Certificate of Compliance if there are signs using the Specific Lighting Sources method of compliance).

В	С	D	E	F	G	Н	I	J
Description of the Sign	OPTIONAL – Energy Verified Label (see instructions below)	Allotted Watts		Design Watts	Complies Y/N	Field Inspector Check that Sign Complies		
	√	Sign Area (ft²)	Internally (I) or Externally (E) Illuminated	Allowed LPD (I = 12 W/ft ²) (E = 2.3 W/ft ²)	Allowed Watts (D x F)	Total Installed Watts for Sign	Complies if H ≤ G	√
Symbol or code used on a	the nlans (when nlans	are reg	uired) and o	ther docume	ants			
						anstruction do	oum onto	
OPTIONAL - Check this both the sign complies with the Power method of compliauthorized by Underwrite National Standards Institutiongoing annual inspection an ENERGY VERIFIED labe	ox only if this sign has be Section 140.8 of the ance. The only labels ers Laboratories (UL) ute in accordance with program carried ouel, columns 'D' throug	a perma c Califori that wil or other h ISO/IE t by a Ty h 'I' are	nnent, pre-p nia 2016 Titl I be recogni Product Ce C 17011. Su pe A Inspec not require	rinted, factor e 24, Part 6 S zed for this p rtification Bo rveillance by tion body in d to be filled	ry-installed Standards, urpose ard dy accredi the Accre accordanc out. Note:	d, ENERGY VEF using the Max e ENERGY VER ted to ISO/IEC dited Certifica e with ISO/IEC Using an ENE	RIFIED label, oximum Allowe IFIED Certifica Guide 65 by tion Body sha C17020. For s	ed Lighting ation Marks the American II be an igns with such
•	•					•		
		"E" if th	e sign is ext	ernally illumi	nated.			
						f sign is listed a	as "E" in colur	nn E.
					•		• •	م ما م
I FIICE I II file mannaei mit	201011111 H 15 1622 MAN	טו בטטאי	to the num	per III comm	n G. Ome	I WISE, LITE SIETI	goes not cor	ndiv.
	Symbol or code used on A description of the sign, OPTIONAL - Check this be the sign complies with the Power method of compli authorized by Underwrith National Standards Institution on the sign are an energy VERIFIED labe optional method to valid The sign area in square for List "I" if the sign is internal Allowed watts per square Multiply the square foots.	Symbol or code used on the plans (when plans A description of the sign, or location of sign or OPTIONAL - Check this box only if this sign has the sign complies with the Section 140.8 of the Power method of compliance. The only labels authorized by Underwriters Laboratories (UL) National Standards Institute in accordance wit ongoing annual inspection program carried ou an ENERGY VERIFIED label, columns 'D' throug optional method to validate compliance. An El The sign area in square feet. List "I" if the sign is internally illuminated. List Allowed watts per square foot. Enter 12 if the Multiply the square footage in column D times Show the total installed watts in the sign, as defined the sign and the sign, as defined the sign and the sign area in square foot. Enter 12 if the Multiply the square footage in column D times Show the total installed watts in the sign, as defined the sign and s	Description of the Sign OPTIONAL — Energy Verified Label (see instructions below) Symbol or code used on the plans (when plans are req A description of the sign, or location of sign on the buil OPTIONAL - Check this box only if this sign has a permathe sign complies with the Section 140.8 of the Californ Power method of compliance. The only labels that will authorized by Underwriters Laboratories (UL) or other National Standards Institute in accordance with ISO/IE ongoing annual inspection program carried out by a Ty an ENERGY VERIFIED label, columns 'D' through 'I' are optional method to validate compliance. An ENERGY VThe sign area in square feet. List "I" if the sign is internally illuminated. List "E" if the Allowed watts per square foot. Enter 12 if the sign is li Multiply the square footage in column D times the allos Show the total installed watts in the sign, as determined.	Description of the Sign OPTIONAL — Energy Verified Label (see instructions below) Allotte instructions below) Symbol or code used on the plans (when plans are required) and of A description of the sign, or location of sign on the building; and the OPTIONAL - Check this box only if this sign has a permanent, prepthe sign complies with the Section 140.8 of the California 2016 Titl Power method of compliance. The only labels that will be recognia authorized by Underwriters Laboratories (UL) or other Product Cere National Standards Institute in accordance with ISO/IEC 17011. Suringing annual inspection program carried out by a Type A Inspection and the California 2016 Titl The sign area in square feet. List "I" if the sign is internally illuminated. List "E" if the sign is ext Allowed watts per square foot. Enter 12 if the sign is listed as "I" in Multiply the square footage in column D times the allowed Lightin Show the total installed watts in the sign, as determined according	OPTIONAL – Energy Verified Label (see instructions below) Compared to the sign Compared to the sign of the sign is externally illuminated. List "E" if the sign is externally illuminated. List "E" if the sign is externally illuminated. Multiply the square footage in column D times the allowed Lighting Power Deen Show the total installed watts in the sign, as determined according to the applies.	Symbol or code used on the plans (when plans are required) and other documents. A description of the sign, or location of sign on the building; and the location of sign on cooperation of compliance. The only labels that will be recognized for this purpose an authorized by Underwriters Laboratories (UL) or other Product Certification Body accreding any authorized by Underwriters Laboratories (UL) or other Product Certification Body accreding an ENERGY VERIFIED label; so the Accre ongoing annual inspection program carried out by a Type A Inspection body in accordance an ENERGY VERIFIED label, columns 'D' through 'I' are not required to be filled out. Note: optional method to validate compliance. An ENERGY VERIFIED label is not needed for cor The sign area in square feet. List 'I'' if the sign is internally illuminated. List "E" if the sign is externally illuminated. Allowed watts prove proven the sign, as determined according to the applicable proven the total installed watts in the sign, as determined according to the applicable proven the sign, as determined according to the applicable proven the sign, as determined according to the applicable proven the sign, as determined according to the applicable proven the sign, as determined according to the applicable proven the sign, as determined according to the applicable proven the sign as the sign as determined according to the applicable proven the sign as the sign as determined according to the applicable proven the sign as determined according to the applicable proven the sign as determined according to the applicable proven the sign as determined according to the applicable proven the sign as determined according to the applicable proven the sign as the sign as determined according to the applicable proven the sign as the sign as the sign as determined according to the applicable proven the sign as the si	Symbol or code used on the plans (when plans are required) and other documents. A description of the sign, or location of sign on the building; and the location of sign on construction do OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed, ENERGY VER authorized by Underwriters Laboratories (UL) or other Product Certification Body accredited to ISO/IEC 3 and ENERGY VERIFIED label; so the Alboratories (UL) or other Product Certification Body accredited to ISO/IEC angeing annual inspection program carried out by a Type A Inspection body in accordance with ISO/IEC 17011. Surveillance by the Accredited Certification and inspection program carried out by a Type A Inspection body in accordance with ISO/IEC and ENERGY VERIFIED label, columns 'D' through 'I' are not required to be filled out. Note: Using an ENE optional method to validate compliance. An ENERGY VERIFIED label is not needed for compliance. The sign area in square feet. List "I" if the sign is internally illuminated. List "E" if the sign is externally illuminated. Allowed watts per square foot. Enter 12 if the sign is listed as "I" in column E. Enter 2.3 if sign is listed a Multiply the square footage in column D times the allowed Lighting Power Density (LPD = watts) in column Show the total installed watts in the sign, as determined according to the applicable provisions of §130	Description of the Sign OPTIONAL – Energy Verified Label (see instructions below) Allotted Watts Design Watts Complies Y/N Of (1) July Pateulum (1) Jul

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2b. Specific Lighting Source Method of Compliance

Certificate of Compliance and Field Inspection Energy Checklist

Complete this part if there are signs using the Specific Lighting Source method of compliance. (Complete part 2 of this Certificate of Compliance if there are signs using the maximum allowed lighting power method of compliance)

		if there are signs using the maximum allowed ligh			F				
Α	١	В	C	D	E				
			<u>OPTIONAL</u>						
			ENERGY	Specific light source used for	Field Inspector				
Sym	bol		VERIFIED	compliance	Check that Sign				
0	r	Description	label	Shall include only lighting	Complies				
Cod	de		(see	technologies listed below	Compiles				
			instructions	(List all that apply)	•				
			below)						
A	Sum	l nbol or code used on the plans (when plans are required	l and other docume	l nts					
<u>А</u> В		arrative description of the sign, or location of sign on th			nents				
ь		FIONAL - Check this box only if this sign has a permanen							
		upplies with the Section 140.8 of the California 2016 Title							
		only labels that will be recognized for this purpose are			•				
) or other Product Certification Body accredited to ISO/I							
С		/IEC 17011. Surveillance by the Accredited Certification							
		•							
		spection body in accordance with ISO/IEC 17020. For signs with such an ENERGY VERIFIED label, column 'D' is not required to be filled							
		ote: Using an ENERGY VERIFIED label is an optional method to validate compliance. An ENERGY VERIFIED label is not needed for							
		apliance.	tified above use only	the following lighting technologies:					
		Specific Light Source Compliance Method. The sign(s) identified above use only the following lighting technologies: List all applicable numbers (1 through 9) that apply in column D above for each row.							
	1	High pressure sodium lamps	2 0.0010 101 00011						
	_		ic served by a halla	est that has a minimum efficiency	of 88% or greater				
	2	Metal halide lamps that are pulse start or ceramic served by a ballast that has a minimum efficiency of 88% or greater.							
		Ballast efficiency is the measured output wattage to the lamp divided by the measured operating input wattage when							
		tested according to ANSI C82.6-2005.	20						
		Metal halide lamps that are pulse start that are 3		er, are not 250 watt or 175 watt ia	imps, and are				
	3	served by a ballast that has a minimum efficience	•						
		Ballast efficiency is the measured output wattag	e to the lamp divid	ed by the measured operating inp	out wattage wher				
		tested according to ANSI C82.6-2005.			U				
					_				
D		Neon or cold cathode lamps with transformer or power			ficiency of 75% wh				
D	4	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current			ficiency of 75% who				
D	4	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load.	is less than 50 mA.	The ratio of the output wattage to the	ficiency of 75% wh				
D		Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power supply the supply th	er supply efficiency g	The ratio of the output wattage to the reater than or equal to a minimum ef	ficiency of 75% when the input wattage is a ficiency of 68% wh				
D	4 5	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current	er supply efficiency g	The ratio of the output wattage to the reater than or equal to a minimum ef	ficiency of 75% when the input wattage is a ficiency of 68% wh				
D		Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load.	er supply efficiency g is 50 mA or greater.	The ratio of the output wattage to the reater than or equal to a minimum ef The ratio of the output wattage to the	ficiency of 75% who input wattage is a ficiency of 68% who ne input wattage is				
D	5	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Fluorescent lighting systems meeting one of the follow	er supply efficiency g is 50 mA or greater. wing requirements: A	reater than or equal to a minimum ef The ratio of the output wattage to the The ratio of the output wattage to the	ficiency of 75% wh input wattage is a ficiency of 68% wh ne input wattage is				
D	5	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Fluorescent lighting systems meeting one of the follow (CRI) of 80; or B.) Use only electronic ballasts with a functional systems.	er supply efficiency g is 50 mA or greater. wing requirements: A undamental output fr	The ratio of the output wattage to the reater than or equal to a minimum ef The ratio of the output wattage to the color of the output wattage to the color of the output wattage to the color of the co	ficiency of 75% who input wattage is a ficiency of 68% who ne input wattage is				
D	5	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Fluorescent lighting systems meeting one of the follow (CRI) of 80; or B.) Use only electronic ballasts with a fullight emitting diodes (LEDs) with a power supply having	er supply efficiency g is 50 mA or greater. wing requirements: A indamental output fr ing an efficiency of 80	reater than or equal to a minimum ef The ratio of the output wattage to the The ratio of the output wattage to the Discourse only lamps with a minimum co equency not less than 20 kHz.	ficiency of 75% who e input wattage is at ficiency of 68% who ne input wattage is a lor rendering index				
D	5	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Fluorescent lighting systems meeting one of the follow (CRI) of 80; or B.) Use only electronic ballasts with a full Light emitting diodes (LEDs) with a power supply having Single voltage external power supplies that are design	er supply efficiency g is 50 mA or greater. ving requirements: A indamental output fr ng an efficiency of 80 ed to convert 120 vo	reater than or equal to a minimum ef. The ratio of the output wattage to the. The ratio of the output wattage to the. Use only lamps with a minimum corequency not less than 20 kHz. Off or greater. Off AC input into lower voltage DC or A	ficiency of 75% when input wattage is a ficiency of 68% where input wattage is a lor rendering index				
D	5	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Fluorescent lighting systems meeting one of the follow (CRI) of 80; or B.) Use only electronic ballasts with a fullight emitting diodes (LEDs) with a power supply having Single voltage external power supplies that are design nameplate output power less than or equal to 250 was	er supply efficiency g is 50 mA or greater. ving requirements: A indamental output fr ng an efficiency of 80 ed to convert 120 vo	reater than or equal to a minimum ef. The ratio of the output wattage to the. The ratio of the output wattage to the. Use only lamps with a minimum corequency not less than 20 kHz. Off or greater. Off AC input into lower voltage DC or A	ficiency of 75% when input wattage is a ficiency of 68% where input wattage is a lor rendering index				
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D	5 6 7	Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Neon or cold cathode lamps with transformer or power the transformer or power supply rated output current 100% tubing load. Fluorescent lighting systems meeting one of the follow (CRI) of 80; or B.) Use only electronic ballasts with a fullight emitting diodes (LEDs) with a power supply having Single voltage external power supplies that are design nameplate output power less than or equal to 250 was	er supply efficiency g er supply efficiency g is 50 mA or greater. wing requirements: A indamental output fr ng an efficiency of 80 ed to convert 120 vo tts, shall comply with	reater than or equal to a minimum ef The ratio of the output wattage to the The ratio of the output wattage to the A.) Use only lamps with a minimum contequency not less than 20 kHz. When or greater.	ficiency of 75% when input wattage is a ficiency of 68% when input wattage is a lor rendering index				

STATE OF CALIFORNIA

SIGN LIGHTING

IFORNIA ENERGY COMMISSION	A Lamberton

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	Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete.		
Company:	Signature Date:	
Address:	CEA Certification Identification (if applicable):	
City/State/Zip:	Phone:	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following under penalty of perjury, under the laws of the State The information provided on this Certificate of Compliance is true and		

- 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).
- 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.
- 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.
- 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:	Responsible Designer Signature:	
Company:	Date Signed:	
Address:	License:	
City/State/Zip:	Phone:	