STATE OF CALIFORNIA

STATE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

EXECUTIVE DIRECTOR RECOMMENDATION TO APPROVE THE CALIFORNIA ADVANCED LIGHTING CONTROLS TRAINING PROGRAM PROPOSED UPDATE REPORT FOR THE ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER AMENDMENT APPLICATION FOR THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS

Executive Summary

The acceptance test technician certification providers (ATTCP) program addresses training, certification, and oversight of acceptance test technicians (ATT), as well as the acceptance test employers (ATE). The technicians perform the tests required by the Building Energy Efficiency Standards (Energy Code), and the employers are responsible for the technician's work. ATTCPs are professional organizations that are approved to provide training curricula for ATTs and ATEs, certification procedures, complaint resolution (including disciplinary procedures), quality assurance, and accountability measures.

Acceptance testing ensures that installed equipment, controls, and systems in nonresidential buildings operate as required by the Energy Code. ATTCPs must submit an update report in the event that the California Energy Commission (CEC) approves an updated Energy Code. The 2022 Energy Code was approved by the CEC on August 11, 2021, approved by the California Building Standards Commission in December of 2021, and will go into effect on January 1, 2023. Update reports are subject to the application review and determination process specified in section 10-103.1(e).

The California Advanced Lighting Controls Training Program (CALCTP) submitted an update report to the CEC amending its application on June 27, 2022, as required by section 10-103.1(d)2 of the Energy Code. As specified in section 10-103.1(e) of the 2022 Energy Code, staff reviewed and validated all information received in the update report and determined that CALCTP meets most of the criteria and procedures in section 10-103.1(c) for providing acceptance testing certification services. Pursuant to section 10-103.1(e), the executive director posted the staff evaluation to docket number <u>13-ATTCP-01</u> (https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=13-ATTCP-01), provided an opportunity for public comment, and considered all comments received as of November 15, 2022.

CALCTP has not completed the database system for tracking completed acceptance tests as required by sections 10-103.1(c)3H and 10-103.1(c)3I. Staff has confidence that CALCTP will complete this task by December 1, 2022. Staff proposes a Condition of Approval to allow the CEC to approve the CALCTP 2022 Update Report. CALCTP will be required to demonstrate that the database is in full operation to the CEC by

December 1, 2022. Staff proposes that failure to demonstrate that the database is in full operation to the executive director's satisfaction by December 1, 2022, shall result in automatic termination of the ATTCP's approval of the CALCTP Update Report. The executive director shall issue a formal letter of determination regarding compliance with this condition by December 14, 2022. Failure to comply with any other requirement of COA-2022-1 may result in the CEC rescinding the ATTCP approval of the CALCTP 2022 Update Report.

The staff evaluation is included in Exhibit A.

Recommendation of the Executive Director

Based upon staff's review and validation of the CALCTP application amendments, I recommend that the CEC confirm these findings and approve the CALCTP 2022 Update Report subject to the condition that CALCTP complete the database system for tracking completed acceptance tests, as required by sections 10-103.1(c)3H and 10-103.1(c)3I by December 1, 2022.

October 26, 2022

Date

Drew Bohan Executive Director California Energy Commission

EXHIBIT A

Staff Evaluation – California Advanced Lighting Controls Training Program **2022 Update Report**

Summary

Staff has verified and reviewed the California Advanced Lighting Controls Training Program (CALCTP) 2022 Update Report to confirm that it is complete and complies with most of the requirements in section 10-103.1(c) of the 2022 Building Energy Efficiency Standards (Energy Code) in regard to its acceptance test technician certification provider (ATTCP) application. Staff reviewed the confidential and non-confidential information and verified that all changes needed to meet the requirements of the 2022 Energy Code are represented in the CALCTP 2022 Update Report.

Exception:

Sections 10-103.1(c)3H and 10-103.1(c)3I require the implementation of a database system to track and record acceptance test activities and results of certified acceptance test technicians (ATTs). CALCTP was not able to fully implement the required database system. However, based on the progress made and the experience of CALCTP, staff is confident that CALCTP can complete the database system and satisfy the requirements in sections 10-103.1(c)3H and 10-103.1(c)3I by December 1, 2022. Staff recommends the following condition of approval (COA-2022-1) for the California Energy Commission (CEC) to consider and allow CALCTP to proceed with the required training as soon as possible. This will ensure that the ATTs responsible for compliance with the Energy Code are fully trained and their customers are able to realize the energy savings from the 2022 Energy Code requirements.

COA-2022-1: By December 1, 2022, CALCTP (or its representatives) shall perform all of the following:

- Develop and implement an online database web service in compliance with sections 10-103.1(c)3H and 10-103.1(c)3I.
- Submit all necessary evidence to the CEC to substantiate its claim of compliance with COA-2022-1.

Compliance:

CALCTP will demonstrate that the database is in full operation to the executive director. Once the executive director is satisfied with the performance of the database, they will provide CALCTP with a written acknowledgement of compliance by December 14, 2022. Failure to comply with any other requirement of COA-2022-1 may result in the CEC rescinding the ATTCP approval of the CALCTP.

Detailed Evaluation

The following tables identify all of the changes that may have affected the CALCTP update report. Staff considered all of these changes in its validation and review of the CALCTP 2022 Update Report.

	Table 1: Changes within Title 24, Part 1
Section	Description of Change
10-102, Definition	This change excludes certificates of acceptance recorded by an
"Nonresidential	ATTCP from requiring additional submittal to separate data
Data Registry"	registries.
10-103(a)4B	This change excludes certificates of acceptance recorded by an ATTCP from requiring additional submittal to separate data registries.
10-103(a)4C	The change removes reference to registration or the use of data registries as it relates to certificates of acceptance.
10-103(d)	The change removes reference to registration or the use of data registries as it relates to certificates of acceptance.
10-103.1(c)3H	This change adds express criteria for electronic storage, within a database system, of compliance forms prepared and collected by ATTs.
10-103.1	The change to this section and its subsections is to add references to section 160.5(e) alongside existing references to section 130.4 consistent with the separation of multifamily building requirements, including acceptance testing requirements, into separate chapters in sections 160, 170, and 180 (inclusive).
10-103.1(c)3l	The purpose of the addition of this section is to add specifications for recording, maintaining, and providing certificate of compliance, certificate of installation, and certificate of acceptance documents collected by ATTCPs to the CEC.
10-109(i)1B	This change exempts Nonresidential Certificate of Acceptance (NRCA) forms recorded by an ATTCP from nonresidential data registry registration requirements.
10-114, Table 10- 114-A	This change revises default rural lighting zone classifications as lighting zone 1 and to add urban clusters as the default classification for lighting zone 2. Building types deemed appropriate for lighting zones 1, 2, and 3 are added to Table 10- 114-A. These changes align, where feasible, to the outdoor lighting zone default classification with the Illuminating Engineering Society/International Dark-sky Association (IES/IDA) Outdoor Lighting Model Ordinance lighting zone classification.

Table 2: 2022 Energy Code Changes		
Section	Description of Change	
100.0	The changes to these sections, their subsections, and	
	associated Table are to relocate provisions describing the	
	application of the Energy Code and, in doing so, to reflect	
	changes occurring later in the document that relocate provisions	
	applicable to multifamily buildings (inclusive of low-rise and high-	
	rise multifamily buildings) into their own subsections. These edits	
	include removing references to "high-rise residential" where no	
	longer applicable, replacing low-rise residential" with "single-	
	family," and updating references to include the new sections of	
	the Energy Code relating to multifamily buildings (sections 160,	
	170, and 180 inclusive) consistent with the relocation.	
100.0, Table	The changes to this table are to separate multifamily from the	
100.0-A	nonresidential and single-family building categories, and to add	
	the new electric-ready sections to this table. Additionally,	
	existing section references were updated to account for any	
	change in section numbering resulting from additional changes	
	to the Energy Code.	
100.1(b), definition	The specific purpose of the change is to update the reference	
of "IES LM-79-19"	document title and numbering to the most recent version of the	
	document as issued by the Illuminating Engineering Society.	
100.1(b), definition	The specific purpose of the change is to update the reference	
of "IES LS-1-20"	document title and numbering to the most recent version of the	
	document as issued by the Illuminating Engineering Society.	
100.1(b), definition	The specific purpose of the change is to update the reference	
of "IES TM-15-20"	document title and numbering to the most recent version of the	
	document as issued by the Illuminating Engineering Society.	
100.1(b), definition	The specific purpose of the change is to update the definition to	
of "Accent	align, where feasible, with the nomenclature and definitions for	
Lighting"	Illuminating Engineering Society of the reference document,	
	ANSI/IES LS-1-20, and to include examples of accent lighting.	
100.1(b), definition	This change revises the definition to provide clear and specific	
of "Automatic	definitions for technical terms used within other updates to Part	
Daylight Control"	6, aligned with the use of the term where it is proposed to occur	
	later in the Energy Code.	
100.1(b), definition	This change removes the definition to provide clear and specific	
of "Automatic	definitions for technical terms used within other updates to Part	
Multilevel Daylight	6, aligned with the use of the term where it is proposed to occur	
Control	later in the Energy Code, and to remove obsolete terms,	
	removing unnecessary complexity.	
100.1(b), definition	I his change updates the definition to align with the	
	nomenciature and definitions for Illuminating Engineering	
Kendering Index	Society of the reference document, ANSI/IES LS-1-20.	
(CRI)″		

Section	Description of Change
100.1(b), definition	This change updates the definition to align with the
of "Correlated	nomenclature and definitions for Illuminating Engineering
Color Temperature	Society of the reference document, ANSI/IES LS-1-20.
(CCT)"	
100.1(b), definition	This change revises the reference measurement methods and
of "Colored Light	the reference calculation method for colored light sources.
Source"	
100.1(b), definition	This change updates the definition to align with the
of "Compact	nomenclature and definitions for Illuminating Engineering
Fluorescent Lamp"	Society of the reference document, ANSI/IES LS-1-20.
100.1(b), definition	This change adds the definition to provide clear and specific
of "Daylight	definitions for technical terms used within other updates to Part
Continuous	6, aligned with the use of the term where it is proposed to occur
Dimming Controls"	later in the Energy Code.
100.1(b), definition	This change updates the definition to include examples in the
of "Decorative	definition for decorative lighting/luminaires.
(lighting/luminaires	
)"	
100.1(b), definition	This change revises the definition to provide clear and specific
of "Dimmer"	definitions for technical terms used within other updates to Part
	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change revises the term to "Dimmer, Continuous" from
of "Dimmer,	"Dimmer, Full Range."
Continuous" (was	
Dimmer, Full	
Range)	
100.1(b), definition	This change revises the definitions to combine both definitions
of "Display	for display lighting and floor as one definition for "Display
Lighting, Floor"	Lighting, Floor."
(was Display	
Lighting and Floor)	
100.1(b), definition	This change revises the definitions to combine both definitions
of "Display	for display lighting and wall as one definition for "Display
Lighting, Wall"	Lighting, Wall."
	I his change revises the definitions to combine both definitions
of "Display	for display lighting and window as one definition for "Display
	I his change revises the definitions to combine both definitions
OT "Display	for display lighting and case as one definition for "Display
Lighting, Case	
100.1(b), definition	I his change updates the definition to align, where feasible, with
or "illumination"	the nomenciature and definitions for illuminating Engineering
	Society of the reference document, ANSI/IES LS-1-20.

Section	Description of Change
100.1(b), definition	This change updates the definition to align, where feasible, with
of "Inseparable	the nomenclature and definitions for Illuminating Engineering
Solid State	Society of the reference document, ANSI/IES LS-1-20, and to
Lighting (SSL)	add examples to the definition for inseparable solid state lighting
Luminaire"	luminaires.
100.1(b), definition	This change updates update the definition to align, where
of "Light"	feasible, with the nomenclature and definitions for Illuminating
	Engineering Society of the reference document, ANSI/IES LS-1- 20.
100.1(b), definition	This change updates the definition to align, where feasible, with
of "Lighting"	the nomenclature and definitions for Illuminating Engineering
	Society of the reference document, ANSI/IES LS-1-20.
100.1(b), definition	This change updates the definition to align, where feasible, with
of "Light Emitting	the nomenclature and definitions for Illuminating Engineering
Diode" (LED)	Society of the reference document, ANSI/IES LS-1-20.
100.1(b), definition	This change updates the definition to align, where feasible, with
of "LED Driver"	the nomenclature and definitions for Illuminating Engineering
	Society of the reference document, ANSI/IES LS-1-20.
100.1(b), definition	This change updates the definition to align with the
of "LED Light	nomenclature and definitions for Illuminating Engineering
Engine"	Society of the reference document, ANSI/IES LS-1-20.
100.1(b), definition	This change adds the definition to provide clear and specific
of "Luminaire	definitions for technical terms used within other updates to Part
Alteration" (new)	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change updates the definition to align, where feasible, with
of "Luminous	the definition of the ENERGY STAR Program Product
Maintenance" (was	Specification for Luminaires (Light Fixtures) Version 2.2.
Lumen	
Maintenance)	This shares revises the definition to previde along and encoding
100.1(D), definition	I his change revises the definition to provide clear and specific
of Luminaire	definitions for technical terms used within other updates to Part
	o, any neu with the use of the term where it is proposed to occur
100 1(b) definition	This change revises the definition to provide clear and enseific
of "Luminous Eluy"	definitions for technical terms used within other undates to Part
	6 aligned with the use of the term where it is proposed to easur
	b, any neu with the use of the term where it is proposed to occur
	later in the Energy Code.

Section	Description of Change
100.1(b), definition	This change updates the definitions (including Motion Sensor;
of "Occupant	Occupant Sensor; Partial-ON Occupant or Motion Sensor;
Sensing Controls"	Partial-OFF Occupant or Motion Sensor; Vacancy Sensor) with a
(was Occupant	change of phrase from "sensor" to "sensing control" to the terms
Sensor)	of definition. These changes are to align with the use of the term
	in section 130.1(c) of Automatic Shutoff Controls, and the
	revised terms more accurately reflects of their characters as
	lighting controls.
100.1(b), definition	This change adds luminaire to the name of the definition.
of "Pendant	
Luminaire"	
(Suspended	
Luminaire) (was	
Pendant	
[Suspended])	
100.1(b), definition	This change adds the definition to provide clear and specific
of "One-to-One	definitions for technical terms used within other updates to Part
Alteration" (new)	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change combines both definitions for ornamental lighting
of "Ornamental	and luminaires as one definition for "Ornamental
Lighting/Luminaire	Lighting/Luminaires." The other change is to separate out the
s" (was	sub-definition for decorative luminaires as an independent and
Ornamental	separate definition for "Decorative Lighting/Luminaires."
Lighting;	
Luminaires)	
100.1(b), definition	This change revises the definition to provide clear and specific
of "Portable	definitions for technical terms used within other updates to Part
Lighting"	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change revises the definition to provide clear and specific
of "Radiant Power"	definitions for technical terms used within other updates to Part
	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change adds the definition to provide clear and specific
of "Security	definitions for technical terms used within other updates to Part
Cameras"	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change updates the definition to align, where feasible, with
of "Task Lighting"	the nomenclature and definitions for Illuminating Engineering
	Society of the reference document, ANSI/IES LS-1-20.
100.1(b), definition	This change updates the definition to align, where feasible, with
of "Track Lighting"	the nomenclature and definitions for Illuminating Engineering
	Society of the reference document, ANSI/IES LS-1-20.

Section	Description of Change
100.1(b), definition	This change adds the definition to provide clear and specific
of "Tunable	definitions for technical terms used within other updates to Part
Lighting"	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change adds the definition to provide clear and specific
of "Dim-to-Warm"	definitions for technical terms used within other updates to Part
	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change adds the definition to provide clear and specific
of "Tunable White"	definitions for technical terms used within other updates to Part
(new)	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code.
100.1(b), definition	This change adds the definition to provide clear and specific
of "Color Tunable"	definitions for technical terms used within other updates to Part
(new)	6, aligned with the use of the term where it is proposed to occur
-	later in the Energy Code.
100.1(b), definition	This change adds the definition to provide clear and specific
of "Multifamily	definitions for technical terms used within other updates to Part
Building" (new)	6, aligned with the use of the term where it is proposed to occur
-	later in the Energy Code.
100.1(b), definition	This change adds the definition to provide clear and specific
of "Museum	definitions for technical terms used within other updates to Part
Building"	6, aligned with the use of the term where it is proposed to occur
(Nonresidential	later in the Energy Code.
Building	
Occupancy Types)	
(new)	
100.1(b), definition	This change updates the name of the nonresidential function
of "Barber, Beauty	areas to include barber and spa areas for the nonresidential
Salon, Spa Area	function area definition.
(was Beauty Salon	
Area)	This share as and any the many of the many side with fur them.
100.1(D), definition	I his change reorders the name of the nonresidential function
of Lobby, Main	areas with Lobby as the preceding term for the nonresidential
Entry (was main	
CILLY LODDY)	This shange rearders the name of the neurosidential function
of "Loboratory	ins change reorders the name of the nonresidential function
OI Laboratory,	areas with Laboratory as the preceding term for the
was Scientific	
Laboratory Area)	

Section	Description of Change
100.1(b), definition	This change reorders the name of the nonresidential function
of "Manufacturing,	areas with "Manufacturing" as the preceding term for the
Commercial and	nonresidential function area definition.
Industrial Area"	
(was Commercial	
and Industrial	
Manufacturing	
Area)	
100.1(b), definition	This change reorders the name of the nonresidential function
of "Storage,	areas with "Storage" as the preceding term for the nonresidential
Commercial and	function area definition.
Industrial Area"	
(was Commercial	
and Industrial	
Storage Area)	
100.1(b), definition	This change revises the definitions to combine both definitions
of "Parking Zone	for parking zone and dedicated ramps as one definition for
and Ramps" (was	"Parking Zone and Ramps."
Parking Zone and	
Dedicated Ramps)	
100.1(b), definition	This change revises the definition to clarify adjacent areas of a
of "Daylight	parking garage are applicable to the nonresidential function area
Adaptation" Zone	definition of daylight adaptation zone.
100.1(b), definition	This change removes the definition to provide clear and specific
of "Dedicated	definitions for technical terms used within other updates to Part
Ramps" (removed)	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code, and to remove obsolete terms,
	removing unnecessary complexity.
100.1(b), definition	This change removes the definition to provide clear and specific
of "Overhang	definitions for technical terms used within other updates to Part
Projection"	6, aligned with the use of the term where it is proposed to occur
(removed)	later in the Energy Code, and to remove obsolete terms,
	removing unnecessary complexity.
100.1(b), definition	This change removes the definition to provide clear and specific
of "Overhang Rise"	definitions for technical terms used within other updates to Part
(removed)	6, aligned with the use of the term where it is proposed to occur
	later in the Energy Code, and to remove obsolete terms,
	removing unnecessary complexity.
110.9(b)5	This change removes part-night outdoor lighting controls and its
	functionality requirements. The criteria of this section define
	what a control installed to meet "part-night" requirements is
	required to do, however the underlying requirements to install
	"part-night" controls (distinct from other outdoor lighting controls)
	were removed in the 2019 update to the Energy Code.

Section	Description of Change
110.12(a)	The changes to this section more clearly state the
	communication requirements applicable to demand responsive
	controls. The term "hard-wiring" in particular was observed to be
	a common source of confusion and is adequately covered by
	"wired or wireless bi-directional communication pathway."
110.12(c)	The changes to this section revise the floor area threshold to an
	equivalent wattage threshold, and more clearly state that the
	requirement of this section applies to lighting to which multi-level
	lighting requirements in section 130.1(b) also apply.
110.12(c)2 (new)	This addition clarifies which lighting systems are required to be
	controlled and can be controlled optionally when demand
	responsive lighting controls are required.
110.12(c)3 (new)	This addition relocates language related to uniform illumination
	in section110.12(c) to new subsection 110.12(c)3.
110.12(c),	This change removes the exception for spaces with lighting
Exception 1 to	power density of 0.5 watts per square foot or less.
110.12(c)	
(removed)	
110.12(c),	This change revises the exception from a floor area threshold to
Exception to	an installed wattage threshold.
110.12(c)	
110.12(e) (new)	The addition of section 110.12(e) adds specific requirements for
	the behavior of demand responsive controlled receptacles.
Subchapter 4	This change removes high-rise residential buildings from the
	scope of Subchapter 4 (sections 130.0-30.5). Lighting and
	electrical power distribution system requirements for multifamily
	buildings (including nign-rise residential buildings) are covered in
	Subchapter 10.
130.0, 130.0(a)	I ne changes to these sections remove high-rise residential
	buildings and high-lise residential dwellings from the scoping
	huildings and dwallings are being moved to new shorters of the
	proposed Energy Code
120.0(a)	The changes undate the luminaire classification and luminaire
130.0(0)	newer determination for luminaire classification and furnitiaire
	bolders and revise the requirement to be based on the luminaire
	maximum rated wattage of section $130 \Omega(c)1$ and remove the 50
	watts per socket threshold for recessed luminaires with line.
	voltage medium screw base socket
130.1	This change removes high-rise residential huildings from the
	scope of section 130.1 Lighting requirements for multifamily
	buildings (including high-rise residential buildings) are covered in
	new section 160.5.
110.12(c)/2 (new) 110.12(c), Exception 1 to 110.12(c), (removed) 110.12(c), Exception to 110.12(c) 110.12(c) 110.12(c) 110.12(c) 110.12(c) 110.12(c) 110.12(e) (new) Subchapter 4 130.0, 130.0(a) and 130.0(b) 130.0(c) 130.1	 This addition claimes which igniting systems are required to be controlled and can be controlled optionally when demand responsive lighting controls are required. This addition relocates language related to uniform illumination in section110.12(c) to new subsection 110.12(c)3. This change removes the exception for spaces with lighting power density of 0.5 watts per square foot or less. This change revises the exception from a floor area threshold to an installed wattage threshold. The addition of section 110.12(e) adds specific requirements for the behavior of demand responsive controlled receptacles. This change removes high-rise residential buildings from the scope of Subchapter 4 (sections 130.0-30.5). Lighting and electrical power distribution system requirements for multifamily buildings (including high-rise residential buildings) are covered in Subchapter 10. The changes to these sections remove high-rise residential buildings and high-rise residential dwellings from the scoping requirements of section 130.0 because high-rise residential buildings and dwellings are being moved to new chapters of the proposed Energy Code. The changes update the luminaire classification and luminaire power determination for luminaires with line voltage lamp holders and revise the requirement to be based on the luminaire maximum rated wattage of section 130.0(c)1 and remove the 50 watts per socket threshold for recessed luminaires with line-voltage medium screw base socket. This change removes high-rise residential buildings from the scope of section 130.1. Lighting requirements for multifamily buildings (including high-rise residential buildings) are covered in new section 160.5.

Section	Description of Change
130.1(a),	This change revises the exception for lighting that are
Exception to	continuously illuminated for the means of egress illumination to
130.1(a)	be up to the same amount as permitted in section 130.1(c).
130.1(a)1,	This change clarifies that any restroom with two or more stalls
Exception to	and adds areas intended for access by the public to the list of
130.1(a)1	areas exempt from the readily accessible requirement.
130.1(a)2,	This change adds main entry lobbies and dining areas to the list
Exception 1 to	of areas that do not require manual area controls to be in the
130.1(a)2	same space as lighting being controlled.
130.1(a)3	This change allows scene controllers to be installed as specified
	130.1(a)3.
130.1(b)	These changes relocate certain exceptions to this subsection's
	multilevel lighting control requirements from Table 130.1-A to the
	text body of section 130.1(b) and lowers the lighting power
	density threshold.
130.1(b),	This change exempts enclosed spaces with one inseparable
Exception 1 to	solid state lighting (SSL) luminaire from the multilevel lighting
130.1(b)	control requirement.
130.1(c) Exception	This change relocates the exception to Exception 3 to section
2 (removed)	130.1(c)1.
130.1(c)1D	This change removes separate shut-OFF controls requirement
(removed)	for general lighting, display lighting, ornamental lighting, and
	display case lighting.
130.1(c)1E	This change removes language that is duplicative with section
(removed)	130.1(a). Because all indoor lighting controls already require
	compliance with section 130.1(a), which requires manual on
	switches, it is not necessary to duplicate that requirement in
	section 130.1(c).
130.1(c)1,	This change moves "Exception 2 to section 130.1(c)" to
Exception 3 to	"Exception 3 to section 130.1(c)1" as part of the Exception 3.
130.1(c)1 (Moving	
Exception 2 to	
130.1[c])	
130.1(c)3B,	This change adds "laboratories" to the list of areas to be allowed
Exception	to have an automatic time-switch control override of longer than
	two hours.
130.1(c)5	This change replaces the phrase "sensor" with "sensing
	controls."

Section	Description of Change
130.1(c)6	This change adds the mandatory requirements for full or partial
	OFF occupancy sensing controls for aisle ways, open area in
	warehouses, library book stack aisles, corridors and stairwells,
	and office spaces greater than 250 square feet. The other
	specific purpose of the change is to revise the term "general
	lighting" to "lighting" for meeting the requirements of
	section130.1(c)6.
130.1(c)6D (new)	This addition establishes requirements for partial OFF
	occupancy sensing controls in offices greater than 250 square
	feet and functionality requirements for these controls.
130.1(c)7	This change revises the term "general lighting" to "lighting" for
	meeting the requirements of section 130.1(c)7.
130.1(c)7A	This change removes high-rise residential buildings and high-
	rise residential dwellings from the scoping requirements of
	section 130.1(c)7A.
130.1(d)	This change adds secondary sidelit daylit zones to the
	mandatory automatic daylighting control requirements. This
	change also revises the numbering of the exception for parking
	garage areas, areas with glazing and opening, and retail
	merchandise sales and wholesale showroom areas.
130.1(d)1	This change specifies that secondary sidelit daylit zones must be
	shown on the plans.
130.1(d)2	This change clarifies how general lighting in overlapping primary
	and secondary sidelit daylit zones must be controlled.
130.1(d)3C	This change increases the minimum controlled lighting power
	reduction from 65 to 90 percent.
130.1(d)3D	This change clarifies that the combination of primary and
	secondary sidelit daylit zones must be reduced to 100 percent
	when daylight illuminance is greater than 150 percent of the
	design illuminance.
130.1(d)4	This change requires that all photosensors be located such that
	they are not accessible to unauthorized personnel, rather than at
	least one in a daylit zone.
130.1(d) Exception	This change is to rephrase the exception for rooms with total
3 to 130.1(d)	general lighting power in skylit daylit zone and primary sidelit
	daylit zone of less than 120 watts. This change also exempts
	rooms with total general lighting power in secondary sidelit daylit
	zone less than 120 watts from the automatic daylighting control
	requirements for these zones.
130.1(d),	This change relocates the exception for parking garage areas
Exception 4 to	from "Exception 3" to "Exception 4."
130.1(d)	
130.1(d),	This change removes dedicated ramps in parking garages from
Exception 6 to	being exempted from automatic daylighting control
130.1(d)	requirements.

Section	Description of Change
130.1(f)9	This change adds new occupant sensing control requirements
	for space conditioning systems as specified in Table 120.1-A.
130.1, Table	The changes include editorial changes for re-ordering the light
130.1-A	source technologies, combine some luminaire types with
	common characteristics into the same category, move the
	footnote outside of Table 130.1-A, and to reformat the table for
	ADA compliance.
130.2, 130.2(b),	The changes to this section remove high-rise residential
and Exception 7 to	buildings and high-rise residential dwellings from the scoping
130.2(b)	requirements of section 130.2 and provide grammatical changes
	for clarity.
130.2(b),	This change exempts outdoor public art lighting from the
Exception 2 to	luminaire shielding requirements.
130.2(b)	
130.2(b),	This change exempts utility-maintained roadways, sidewalks,
Exception 6 to	and bikeways from the luminaire shielding requirements.
130.2(b)	
130.2(c)2A	This change relocates the automatic scheduling control
	requirements from the bottom of the subsection to the top.
130.2(c)3A	I his change relocates the motion sensing control requirements
400.0(.)04"	from the bottom of the subsection to the top.
130.2(C)3All	I his change adds "wall packs" as the luminaire example for
	outdoor wall mounted luminaires and to remove the following
	Lexi: nave a bilaterally symmetric distribution such as Type II, III,
130 /	This change removes high rise residential buildings and high
130.4	rise residential dwellings from the sconing requirements of
	section 130.4
130 4(a)	The changes include editing wording to clarify how the lighting
100.4(0)	control acceptance requirements can be met by testing in
	accordance with Reference Nonresidential Appendix Section
	NA7.6 and NA7.8 and change reference to institutional tuning
	requirement from Section NA7.7 to Section NA7.6.
130.4(a)8 (new)	This change adds demand responsive receptacle controls to the
	list of controls subject to acceptance testing in nonresidential
	buildings.
130.4(b)	This change removes the installation certificate requirement for
	track lighting integral current limiters and track lighting
	supplementary overcurrent protection panels.
130.5	This change removes high-rise residential buildings and high-
	rise residential dwellings from the scoping requirements of
	section 130.5.
130.5(d)	This change revises "occupancy sensing controls" to "occupant
	sensing controls."

Section	Description of Change
130.5(e)	This change expressly states that "demand responsive controls
	and equipment" includes demand responsive controls
	associated with controlled receptacles.
140.6	This change removes mention of secondary daylit zone
	provisions, consistent with the relocation of these provisions to
	mandatory sections.
140.6(a)2	The changes to subsection H, I, and K revise the power
	adjustment factor (PAF) for daylight dimming plus OFF controls,
	for occupant sensing controls in office, and for demand
	responsive control.
140.6(a)3F	This change removes the text "In office buildings with medical
	and clinical areas and healthcare facilities" from section
	140.6(a)3F.
140.6(a)3M	This change removes the requirement for high-rise residential
	buildings from the nonresidential chapter.
140.6(a)3W	This change adds an exception for horticultural lighting in
	controlled environment horticulture (CEH) spaces (indoor
	growing and greenhouses) complying with section 120.6(h).
140.6(a)4B	This change adds the term luminaire aperture to the qualifying
	luminaire descriptions of small aperture tunable-white and dim-
	to-warm luminaires lighting power adjustment. The other change
	revises the lighting power adjustment values for these
	luminaires.
140.6(c)2Gvii	The change to this section is to delete the specific lighting
	wattage amount for videoconferencing studio and instead to
	refer to Table 140.6-C for the lighting power allotment for
	videoconferencing studio.
140.6(d)	This change removes the secondary sidelit daylit zone
(removed)	requirements from this section and to move the requirements to
	section 130.1(d).
140.6, Table	The changes revise Daylight Continuous Dimming plus OFF
140.6-A	control to be the type of control qualified for the PAF as specified
	in Table 140.6-A and revise power adjustment factor values for
	occupant sensing controls in offices larger than 250 square feet.
140.6, Tables	The changes amend the indoor lighting power allotments for
140.6-B, C, D, and	using complete building method, area category method, and
G	tailored method in Table 140.6-B, Table 140.6-C, Table 140.6-D,
	and Table 140.6-G.
	The other changes are to replace the term, "ornamental lighting,"
	with the term, "decorative lighting" and separate "concourse and
	atria area" and "convention, conference multipurpose and
	meeting area" into separate rows.

Section	Description of Change
140.7, Table 140.7-A	The changes revise the lighting power allowance values of general hardscape lighting. The concrete and asphalt surface distinction are removed, and these lighting power allowances are
	reduced to align with the lighting levels recommendations in the ANSI/IES documents of IES for parking lots and general hardscape lighting applications.
140.7, Table 140.7-B	The changes add a new additional lighting allowance for security cameras. Another change is to update the ornamental lighting 100-watt limit to 50 watts and to correct the reference to section 130.0(c) for luminaire rated wattage determination.
141.0	This change removes reference to high-rise residential (now labeled multifamily buildings), such that the requirements of this section and its subsections now only apply to nonresidential, hotel/motel buildings. Multifamily requirements are being relocated into new sections 160, 170, and 180. A second note has also been added explaining that relocating a relocatable public-school building does not meet the definition of an alteration.
141.0(b)	This change removes multifamily "high-rise residential" from the scope of this requirement.
141.0(b)2l	This change revises the terminology "ornamental lighting" to "decorative lighting" to match the change of the terminology in the new construction section of the code.
141.0(b)2L	The changes clarify application, remove unintended alternate readings, and move the threshold for limited numbers of luminaires into an exception.
141.0(b)2Piv	This change requires that new controlled receptacles as applicable meet demand responsive control requirements.
141.0, Table 141.0-F	The changes to Table 141.0-F clarify applicability by replacing "and" with "or" and update section references consistent with changes made elsewhere in the Energy Code (e.g., moving the demand response provisions to section 110.12). The added language also specifies that the new occupant sensing control requirement added to section 130.1(c)6D are not intended to apply to alterations meeting specified requirements.

Section	Description of Change
160.0 through	The addition of sections 160.0 through 180.4 is to relocate
180.4	requirements applicable to multifamily buildings to one area of
	the Energy Code, and merge requirements where cost-effective
	and technically feasible. The mandatory requirements for
	multifamily buildings have been relocated to the newly created
	Subchapter 10, sections 160.0 through 160.9. The performance
	and prescriptive requirements for multifamily buildings have
	been relocated to the newly created Subchapter 11, sections
	170.0 through 170.2. The requirements for additions and
	alterations to multifamily buildings have been relocated to the
	newly created Subchapter 12, sections 180.0 through 180.4.
	Most of this relocation is non-substantive, though note that
	substantive changes proposed for residential and/or
	nonresidential Energy Code in sections 120 through 150.2 are
	duplicated here where applicable, for consistency as well as for
	the reasons stated in the statements for changes made to those
	sections. Additional substantive changes have been made
	where reasible to create consistency across the former
	categories of low-lise and high-lise buildings, i.e., buildings with four
	or more (respectively). Specific changes requiring additional
	detail are described below
160 5(b)	This new section contains the mandatory lighting requirements
	for common use areas in multifamily buildings. These
	requirements mostly align with mandatory requirements in
	sections 130.0 through 130.5 with specific changes for
	multifamily buildings.
160.5(b).	This change adds an Exception to section 160.5(b) for lighting
Exception to	systems installed in common use areas providing shared
160.5(b)	provisions for living, eating, cooking, or sanitation to dwelling
	units. Lighting systems in the specified common use areas may
	instead comply with lighting requirements for dwelling units.
160.5(b)4A,	This change exempts areas where placement of area control
Exceptions to	poses a health and safety hazard. This exception differs from the
160.5(b)4Aii	corresponding exceptions in section 130.1(a)1. References to
	nonresidential function areas have been removed.
160.5(b)4B,	This change exempts restrooms and spaces with one luminaire
Exceptions to	trom multilevel requirements. The exception differs from the
160.5(b)4B	corresponding exceptions in section 130.1(b). References to
	classrooms and healthcare facilities have been removed.
160.5(b)4Cll	I his section differs from corresponding nonresidential section
	130.1(c)2. Provisions for countdown timer switches to be used in
	server aisies in server rooms nave been removed.

Section	Description of Change
160.5(b)4Ciii	This section differs from corresponding nonresidential section
	130.1(c)3B. The exception that applies to nonresidential building
	spaces has been removed.
160.5(b)4Civ	This section differs from corresponding nonresidential section
	130.1(c)4. The exception that applies to nonresidential building
	spaces has been removed.
160.5(b)4Cv	This section differs from corresponding nonresidential section
	130.1(c)5. References to classrooms have been removed.
160.5(b)4Cvi	This section differs from corresponding nonresidential section
	130.1(c)6. References to aisle ways and open areas in
	warehouses and library book stack aisles have been removed.
160.5(b)4Cvii	This section differs from corresponding nonresidential section
	130.1(c)7. References to stairwells and common area corridors
	have been removed. Stairwells and corridors in multifamily
	common use areas comply with section 160.5(b)4Cvi.
160.5(c)1,	This change adds an exception for outdoor lighting attached to a
Exception 7 to	multifamily building that is separately controlled from the inside
160.5(c)1	of a dwelling unit.
160.5(c)2Ci	This change requires motion sensors for wall mounted general
	hardscape parking lot lighting located within 1 mounting height of
	a parking space and 24 feet above grade or lower.
160.5(e)	This new section contains the mandatory lighting controls
	acceptance testing requirements for common use areas in
	multifamily buildings.
160.5(e)1H	This change adds demand responsive receptacle controls to the
	list of controls subject to acceptance testing in multifamily
	common use areas. Identical language was added to section
	130.4 for nonresidential buildings.
160.5(e)2E	This change removes certification requirements for the additional
	lighting wattage for videoconference studios.
160.5(e)3	This change specifies that a certified lighting controls ATT must
	perform acceptance testing specified by section 160.5(e) for
	multifamily common areas.
160.6(d)	This section differs from nonresidential 130.5(d). References to
	hotel and motel guest rooms have been removed.
160.6(d),	This change adds Exception 2 to section 160.6(d) – for
Exception 2 to	receptacles in common use areas providing shared provisions
160.6(d)	for dwelling units. This change permits receptacles in the
	specified common use areas to instead comply with receptacles
	requirements for dwelling units.
160.6(e)	This addition references the demand responsive controlled
	receptacles requirements in section 110.12(e) that apply to
	multifamily common use areas.

Section	Description of Change
170.2(e)	This change relocates the prescriptive lighting requirements for
	common use areas in multifamily buildings to this section. These
	requirements mostly align with prescriptive requirements in
	sections 140.6 to 140.8 with specific changes for multifamily
	buildings.
170.2(e),	This change adds an Exception to section 170.2(e) for lighting
Exception to	systems installed in common use areas providing shared
170.2(e)	provisions for living, eating, cooking, or sanitation to dwelling
	units. Lighting systems in the specified common use areas may
	instead comply with lighting requirements for dwelling units.
170.2(e)2C	This section differs from corresponding nonresidential section
	140.6(a)3. References to nonresidential spaces that must
	comply with the section have been removed.
170.2(e)3	This section differs from corresponding nonresidential section
	140.6(b). Multifamily common use areas may only use the area
	category method or tailored method (and not the complete
	building method) for calculating allowed indoor lighting power.
170.2(e)6A,	The exception to this section differs from corresponding
Exceptions to	exception in section 140.7(a). References to nonresidential
170.2(e)6A	outdoor lighting applications have been removed.
170.2(e), Tables	These tables differ from corresponding nonresidential Tables
170.2 - M, N, O	140.6-C, D, and E. Many space types and lighting power density
	values have been revised specifically for multifamily common
	use areas.
170.2(e), Tables	These tables differ from corresponding nonresidential Tables
170.2-R, S	140.7-A and B. Many space types and lighting power density
	values have been revised specifically for multifamily buildings.
180.2(b)4	This change relocates the prescriptive lighting and electrical
	power distribution alteration requirements for common use areas
	in multifamily buildings to this section. These requirements
	mostly align with prescriptive alteration requirements in sections
	141.0(b)2I, 141.0(b)2L, 141.0(b)2M, and 141.0(b)2P with
	specific changes for multifamily buildings.
NA7.6.1	I he changes to this section and subsections include clean-up to
	address minor issues with the grammar, punctuation, structure,
	Consistency, and wording of the procedures in NA7.6.1.
NA7.0.1.1	inschange revises the construction inspection to directly
	incorporate specific requirements found in the Energy Code,
	replacing general language, and avoiding the need to interpret
	This change reviews the protocole to NAZ 0.4.4 and NAZ 0.4.5
NA7.0.1.2	I his change revises the protocols to NA7.6.1.4 and NA7.6.1.5 in
	Section INA7.6.1.2. These changes are reasonably necessary to
	ciarily the protocols to be used for the functional testing of
	Section NA7.6.1.2.

Section	Description of Change
NA7.6.1.3	This change adds the term "Reserved" for the section to indicate
	that the section has been removed.
NA7.6.1.4(b)	This change removes the requirement "For lighting system with
	institutional tuning of NA7.6.4, include documentation for
	luminaires claiming the PAF for institutional tuning" from item 2.
NA7.6.1.4(c)	This change revises the controlled lighting power reduction to 90
	percent consistent with changes to sections 130.1(d) and
	160.5(b)4D and specifies 100 percent power reduction for
	parking garages. Changes for item 4 include replacing
	"complaint" with "compliant" and revising "daylight dimming" to
	"daylight continuous dimming."
NA7.6.1.4(e)	This addition specifies a new alternative partial daylight testing
	procedure.
NA7.6.1.6	The changes to this section include removing unneeded
	parenthetical text where it occurs in this section's subsections,
	remove reference to continuous dimming for consistency with
	the section's title and contents (stepped dimming), remove
	procedure for documenting daylight dimming plus off behavior,
	and remove unneeded reference to documenting of institutional
	tuning (documentation requirements relating to institutional
	tuning are already specified in the section on institutional tuning).
NA7.6.1.6(c)	The changes include revising the controlled lighting power
	reduction to 90 percent consistent with changes to sections
	130.1(d) and 160.5(b)4D and specifies 100 percent power
	reduction in parking garages, replacing "(Light output is stable
	with no visible flicker.)" with "RESERVED" in item 2, and deleting
	te quelify for the DAF
	to qualify for the PAF.
NA7.0.2	The changes to this section and subsections include clean-up to
	address minor issues with the grammar, punctuation, structure,
	This change reviews the construction increation to remove items
NA7.0.2.1	this change revises the construction inspection to remove items
	that the inspection verifies controls are installed per
	manufacturer instructions
ΝΔ7623	This change adds explicit requirements for each type of
11.47.0.2.5	occupant sensing control including partial on partial off, and
	vacancy sensing controls. This change also adde explicit
	requirements for occupant sensing controls in parking garages
	parking areas and loading and unloading areas
NA7 6 2 4	This addition specifies new functional testing procedures for
	multizone occupant sensing controls consistent with new
	requirements in sections 130 1(c)6D and 160 5(b)4Cvib
	multizone occupant sensing controls consistent with new requirements in sections 130.1(c)6D and 160.5(b)4Cvib.

Section	Description of Change
NA7.6.3	The changes revise language to match section 110.12 more closely. Other changes to this section and subsections include
	clean-up to address minor issues with the grammar, punctuation, structure, consistency, and wording of the procedures in
	NA7.6.3.
NA7.6.3.1	This change revises the construction inspection to directly
	incorporate specific requirements found in Energy Code section
	110.12 that can be verified through visual inspections before
	Tunctional testing.
NA7.6.3.2.3	procedure using full facility current measurements.
NA7.6.4	This change relocates the institutional tuning power adjustment
	factor acceptance testing procedures from NA7.7 to NA7.6.
NA7.6.5	This addition specifies new demand responsive controlled
	receptacle testing procedures consistent with new requirements
	in sections 110.12(e), 130.4(a)8, and 160.5(e)1H.
NA7.8	The changes to this section and subsections include clean-up to
	address minor issues with the grammar, punctuation, structure,
	consistency, and wording of the procedures in NA7.8.
NA7.8.1	I ne changes to this section consolidate motion sensing controls
	testing procedures to NA7.8.1, eliminating redundancy with
	Motion sensing control testing procedures in NA7.8.7 and
	This change adds campling provisions for functional testing of
NA7.0.2	photosensors.
NA7.8.5 (was	This change relocates the automatic scheduling control
NA7.8.7 and	construction inspection and functional testing procedures from
NA7.8.8)	NA7.8.7 and NA7.8.8 to NA7.8.5 (NA7.8.5.1 and NA7.8.5.2).
	Other changes include removing testing procedures for
	automatic scheduling controls used in conjunction with motion
	sensing controls. Motion sensing control testing procedures
	have been consolidated to NA7.8.1.
NA7.8.5, NA7.8.6	The changes to these sections remove the testing procedures
(removed)	for astronomical time switch controls which are redundant with
	the testing procedures for automatic scheduling controls.

All of the certificate of acceptance for lighting controls installations (NRCA-LTI and NRCA-LTO compliance documents) were updated to Americans with Disabilities Act requirements for accessibility. This includes removing all merged cells and standardizing table formatting and numbering. In addition to those changes the following forms have been modified to demonstrate compliance with the 2022 Energy Code requirements.

Lighting Certificate of	
Acceptance Document	Summary of Modifications
NRCA-LTI-02-A	 Updated the automatic time switch construction inspection and functional testing sections to reflect changes to NA7.6.2.5 and NA7.6.2.6 which include clean-up to address minor issues with the grammar, punctuation, structure, consistency, and wording of the procedures in NA7.6.2. Updated the occupant sensing lighting controls construction inspection and functional testing sections to reflect changes in NA7.6.2.1 and NA7.6.2.3 which include clean-up to address minor issues with the grammar, punctuation, structure, consistency, and wording of the procedures in NA7.6.2.1 and NA7.6.2.3 Added functional testing procedures for multi-zone occupant sensing controls to reflect new requirements in NA7.6.2.4.
NRCA-LTI-03-A	 Updated the construction inspection and functional testing sections to reflect changes to NA7.6.1 which include clean-up to address minor issues with the grammar, punctuation, structure, consistency, and wording of the procedures in NA7.6.1. Added alternative partial daylight test for continuous dimming systems to reflect expanded requirements in NA7.6.1.4(e). Removed functional testing procedure for daylight dimming plus off controls for stepped switching or stepped dimming control systems.

 Table 3: 2022 Acceptance Test Compliance Document Changes

. .

Lighting Certificate of	
Acceptance Document	Summary of Modifications
NRCA-LTI-04-A	 Updated the construction inspection and functional testing sections to reflect changes to NA7.6.3 which include clean-up to address minor issues with the grammar, punctuation, structure, consistency, and wording of the procedures in NA7.6.3. Added a third functional testing method for full facility current measurements to reflect expanded requirements in NA7.6.3.2.3. Added construction inspection and functional testing sections for demand responsive controlled receptacles to reflect expanded requirements in NA7.6.5, sections 110.12(e), 130.4(a)8, and 160.5(e)1H.
NRCA-LTI-05-A	 Updated references to NA7.6.4 to reflect the relocation of institutional tuning acceptance testing from NA7.7.5.2 to NA7.6.4. Updated the construction inspection to reflect changes to NA7.6.4.1.
NRCA-LTO-02-A	 Updated the construction inspection and functional testing sections to reflect changes to NA7.8 which include clean-up to address minor issues with the grammar, punctuation, structure, consistency, and wording of the procedures in NA7.8. Added photocontrol sampling procedure to reflect updates to NA7.8.2.2. Updated the form to include a separate motion sensing control section and automatic scheduling control section. The automatic scheduling control used in conjunction with motion sensing controls section has been removed to reflect updates to NA7.8.1 and NA7.8.5

STATE OF CALIFORNIA

STATE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION OF THE CALIFORNIA ENERGY COMMISSION APPROVING THE CALIFORNIA ADVANCED LIGHTING CONTROLS TRAINING PROGRAM PROPOSED ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER 2022 UPDATE REPORT FOR THE 2022 BUIDING ENERGY EFFICIENCY STANDARDS

WHEREAS, section 10-103.1(d)2 of the Building Energy Efficiency Standards (Energy Code) (codified in Title 24, Part 1, of the California Code of Regulations), requires acceptance test technician certification providers to submit an update report to address changes to the Energy Code; and

WHEREAS, update reports are subject to the Application Review and Determination process specified in section 10-103.1(e) of the 2022 Energy Code; and

WHEREAS, the California Advanced Lighting Controls Training Program (CALCTP) submitted an update report to amend its approved application on June 27, 2022, which proposes to modify its application in compliance with the 2022 Energy Code; and

WHEREAS, the executive director evaluated CALCTP's update report and observed that the CALCTP has met the requirements in section 10-103.1(d)2 of the 2022 Energy Code; and

WHEREAS, on October 28, 2022, the executive director provided a copy of the staff evaluation to interested persons and provided an opportunity for public comment; and

WHEREAS, the executive director provided a written recommendation describing the review and validation of the CALCTP update report by California Energy Commission (CEC) staff and recommending approval of the CALCTP update report; and

WHEREAS, the executive director's written recommendation was made available for public comment on October 28, 2022; and

WHEREAS, the CEC has considered the executive director's recommendation, all written comments submitted, oral comments made at today's business meeting, and CEC staff's responses to all comments on this matter.

THEREFORE BE IT RESOLVED, that the CEC finds that the update report proposed by CALCTP meets the requirements in section 10-103.1(d)2 of the 2022 Energy Code; and

FURTHER BE IT RESOLVED, that the CEC confirms the executive director's determinations, adopts their recommendation including the recommended condition of approval and approves the CALCTP proposed update report subject to the condition that CALCTP completes the database system for tracking completed acceptance tests, as required by sections 10-103.1(c)3H and 10-103.1(c)3I by December 1, 2022. The executive director shall issue a formal letter of determination regarding compliance with this condition by December 14, 2022. Should CALCTP fail to demonstrate that the database is in full operation to the executive director's satisfaction by December 1, 2022, approval of its Update Report shall automatically terminate; and

FURTHER BE IT RESOLVED, that the executive director or their designee shall take all steps necessary to implement this resolution.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the CEC held on November 16, 2022.

AYE: NAY: ABSENT: ABSTAIN:

Dated:

Liza Lopez Secretariat