BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Class Room - Pala Office Buildings 35990 Pala Temecula Road Pala, CA 92059

Project Designer:

Paul T. Olson Architect 1050 Rod Street Fallbrook, CA 92028 760.728.9691

Report Prepared by:

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760.635.2327

Job Number:

20Q4014-CR.1-8

Date:

10/26/2020

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

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A. G	A. GENERAL INFORMATION					
1.	. Project Location (city) Pala 8. S		Standards Version	Compliance2019		
2.	CA Zip Code	92059	9.	Compliance Software (version)	EnergyPro 8.1	
3.	Climate Zone	10	10.	Weather File	RIVERSIDE-MARCH-AFB_722860_CZ2010.epw	
4.	Total Conditioned Floor Area in Scope	1,000 ft ²	11.	Building Orientation (deg)	(E) 92 deg	
5.	Total Unconditioned Floor Area	0 ft ²	12.	Permitted Scope of Work	NewEnvelopeAndMechanical	
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential	
7.	Total # of dwelling units	0	14	Gas Type	Propane	

B. PROJECT SUMMARY									
Table Instructions: Table B shows permit application.	whic	n building compo	nents are included in the performance co	alcula	tion. If indicated	as not included, the project must show compliance	prescriptively if within		
	Build	ling Components	Complying via Performance			Building Components Complying P	rescriptively		
		Performance			Performance	The following building components are ONLY eligi			
Envelope		Not Included	Covered Process: Commercial Kitchens		Not Included	compliance and should be documented on the NRCC form listed if with scope of the permit application (i.e. compliance will not be shown on to NRCC-PRF-E).			
Mechanical -		Performance	Covered Process: Computer Rooms		Performance	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI -E is required		
		Not Included	- Covered Process: Computer Rooms		Not Included	Outdoor Lighting §140.7	NRCC-LTO-E is required		
Domestic Hot Water		Performance	Covered Process: Laboratory Exhaust		Performance	Sign Lighting §140.8	NRCC -LTS-E is required		
Domestic not water	Ø	Not Included			Not Included	Mandatory Measures			
Lighting (Indoor Conditioned)		Performance		1		Electrical power systems, commissioning and solar mandatory and should be documented on the NRC (i.e. compliance will not be shown on the NRCC-PF	CC form listed if applicable		
	×	Not Included				Electrical Power Distribution S110.11 NRCC-ELO			NRCC-ELC-E is required
Solar Thermal Water Heating		Performance				Commissioning S120.8 NRCC-CXR-E is rec			
Solar Thermal Water Heating	×	Not Included				Solar Ready S110.10	NRCC-SRA-E is required		

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C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft 2-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹	
Space Heating	36.90	62.18	-25.28	
Space Cooling	128.48	116.51	11.97	
Indoor Fans	144.25	46.54	97.71	
Heat Rejection				
Pumps & Misc.				
Domestic Hot Water	48.22	48.22		
Indoor Lighting	41.73	41.73		
ENERGY STANDARDS COMPLIANCE TOTAL	399.58	315.18	84.40 (21.1%)	

¹ Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS¹

☐ This project is pursuing CalGreen Tier 1		☐ This project is pursuing CalGreen Tier 2			
Miscellaneous Energy Component	Standard Design (TDV) Proposed Design (TDV) Com		Compliance Margin (TDV) ¹		
Receptacle	76.74	76.74			
Process					
Other Ltg					
Process Motors					
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	476.32	391.92	84.4 (17.7%)		

¹ Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

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D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

This report is based on the drawings received on 10/07/2020.

SCOPE OF WORK: New (rebuild) Class Room.

NOTE: This report may not accurately reflect the mechanical design as the CBECC energy modeling engine does not support the proposed design. The Energy Consultant made every effort to reflect the mechanical system design with tools available in the currently approve CBECC energy modeling engine.

1) DO NOT USE FOR ACTUAL HEATING/COOLING DESIGN. 2) The Title 24 calculations used for this project are used for the purpose of complying with the current Title 24 code provisions and are intended to be used in order to obtain compliance per Title 24 regulations. They are NOT intended to be used as a substitute for the heating and cooling loads required for the structure(s) that are normally done by a mechanical engineer(s) of HVAC contractor(s) and in NO CIRCUMSTANCES are to be used in lieu of the normal calculation methods used by a mechanical engineer(s) of HVAC contractor(s). 3) The assembly components found in this document are for modeling purposes only and may not reflect the actual conditions of the walls, roof(s), floor(s), windows and doors of the structure.

G. ENVELOPE GENERAL INFORMATION

1 2		3	4
Opaque Surfaces & Orientation	Opaque Surfaces & Orientation Total Gross Surface Area (ft²)		Window to Wall Ratio (%)
North-Facing ¹	250 ft ²	19 ft²	07.6%
East-Facing ²	400 ft ²	152 ft²	38.0%
South-Facing ³	250 ft ²	60 ft ²	24.0%

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G. ENVELOPE GENERAL INFORMATION					
West-Facing ⁴	400 ft ²	90 ft²	22.5%		
Total	1,300 ft²	321 ft²	24.7%		
Roof	1,000 ft²	0 ft²	00.0%		

Notes:

⁴ West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

H. FENESTRATION ASSEMBLY SUM	H. FENESTRATION ASSEMBLY SUMMARY §110.6									
1.	2.	3.	4.	5.	6.	7.	8.	9.		
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method ¹	Assembly Method	Area ft ²	Overall U-factor	Overall SHGC	Overall VT	Status ²		
_FixedGlazing	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	19	0.36	0.25	0.42	N		
_GlazedDoor	VerticalFenestration GlazedDoor N/A	NFRC Rated	Manufactured	152	0.50	0.23	0.37	N		
_OperableGlazing	VerticalFenestration OperableWindow N/A	NFRC Rated	Manufactured	150	0.46	0.22	0.32	N		

¹ Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

¹ North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).

² East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).

³ South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).

² Status: N - New, A - Altered, E - Existing

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I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Surface Name	Surface Type	Description of Assembly Layers	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status ¹
_CLG.7	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-38 Gypsum Board - 5/8 in.	1000	Wood	38	NA	U-Factor: 0.033	N
_2x6 Studwall at 16 O.C.9	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 5/8 in.	1300	Wood	21	NA	U-Factor: 0.068	N
_SlabOnGrade27	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	1000	NA	0	NA	F-Factor: 0.730	N

¹ Status: N - New, A - Altered, E - Existing

12. OVERHANG DETAILS

This Section Does Not Apply

13. OPAQUE DOOR SUMMARY								
1	1 2							
Assembly Name	Overall U-factor	Status ¹						
_Wood Door20	0.600	N						

J. CRRC ROOFING PRODUCT SUMMARY S140.3

This Section Does Not Apply

K. HVAC SYSTEM SUMMARY §110.1 & §110.2

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Dry System Equipment ¹ (Fan & Economizer info included below in Table N)										
1	2	3	4	5	6	7	8	9	10	
				Heati	Cooli	Sta				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	atus ⁵	
Ductless Mini-Split	MiniSplitHP (Split3Phase)	1	50	No	0	HSPF-8.20	29	SEER-13.00 / EER-11.70	N	

K2. ECONOMIZER 8	(2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.41												
1	2	3	4	4 5 6 7 8 9 10 11						12	13		
	System Type	Design OA		Su	pply Fan				Return Fan	Economizer Type			
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	ВНР	Watts	Control	CFM	ВНР	Watts	Control	(if present)	atus ⁵	
Ductless Mini-Split	MiniSplitHP	0	1125	0.200	174.4	ConstantVolume	NA	NA	NA	NA	NA	N	
¹ Status: N - New, A – Altere	d, E – Existing												

K3. EXHAUST FAN SUMMARY						
1	2	3	4	5	6	7
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H20)
Classroom1	1-Classroom	1	578	0.200	174.4	1.43

K4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

K5. SYSTEM FEATURES §120.2									
1	2	3	4	5	6				
System Name Optimum Start Window Interlocks per §140.4(n) Evaporative Cooling Heat Recovery Other Controls									
Notes: This table includes controls related	to the performance path only. For p	rojects using the prescriptive path, i	mandatory and prescriptive controls requir	rements are documented on the NRCC-MCF	1-E.				

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K6. MECHANICAL VENTILATION AND	K6. MECHANICAL VENTILATION AND REHEAT §120.1											
1	2	3	4	5	6	7	8	9				
	Mechanical Ventilation											
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	Sensor Controls, or Both				
I												

K7. DISTRIBUTION SUMMARY §120.4/140.4(I)

This Section Does Not Apply

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)

No

Does the Project include Zonal Systems?

Yes

K8. ZONAL SYSTEM AN	ND TERMINAL UNIT	SUMMARY § 140.4									
1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type		Capacity tuh)	Airflow (cfm)			Fan			
System ID	Zone Name	зузсені туре	Heating	Cooling	Design	Min.	Min. Ratio	ВНР	Watts	Cycles	ECM Motor
Ductless Mini-Split	1-Classroom	MiniSplitHP	50.00	29.00	1125	NA	NA	0.200	174.4		

K9. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

L1. DHW EQUIPMENT SUMMARY

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L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

L3. SOLAR HOT WATER HEATING SUMMARY

This Section Does Not Apply

M. COVERED PROCESS SUMMARY §140.9

This Section Does Not Apply

N. INDOOR LIGHTING SUMMARY §140.6

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O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component		NO	Form/Title		eld ector
				Pass	Fail
Envelope	\boxtimes		NRCI-ENV-01-E - Must be submitted for all buildings		
Mechanical	\boxtimes		NRCI-MCH-01-E - Must be submitted for all buildings		
		\boxtimes	NRCI-PLB-01-E - Must be submitted for all buildings		
		\boxtimes	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance		
Plumbing		\boxtimes	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance		
		\boxtimes	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application		
		\boxtimes	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application		
		\boxtimes	NRCI-STH-01-E - Must be submitted for solar hot water heating systems		
		\boxtimes	NRCI-LTI-01-E - Must be submitted for all buildings		
		\boxtimes	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control Sys (EMCS) to be recognized for compliance		
Indoor Lighting		\boxtimes	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance		
		\boxtimes	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance		
		\boxtimes	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance		
Covered Process		\boxtimes	NRCI-PRC-01-E - Must be submitted for all Covered Processes		

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P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component		NO	Form/Title		ield pector	
				Pass	Fail	
Envelope	⊠		NRCA-ENV-02-F - NRFC label verification for fenestration			
Livelope			NRCA-ENV-03-F - Daylighting Design PAFs			
		\boxtimes	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls			
Indoor Lighting		\boxtimes	NRCA-LTI-03-A - Automatic Daylight Controls			
indoor Lighting		\boxtimes	NRCA-LTI-04-A - Demand Responsive Lighting Controls			
		\boxtimes	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)			
		\boxtimes	NRCA-PRC-02-F - Kitchen Exhaust			
			NRCA-PRC-03-F - Garage Exhaust			
Covered Process		\boxtimes	NRCA-PRC-12-F – Elevator Lighting and Ventilation Controls			
Covered Flotess		\boxtimes	NRCA-PRC-13-F —Escalator and Moving Walkways Speed Control			
		\boxtimes	NRCA-PRC-14-F – Lab Exhaust Ventilation System			
		\boxtimes	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System			

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Building Component	YES	NO	Form/Title	I	eld ector
				Pass	Fail
	×		NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap		
	\boxtimes		NRCA-MCH-03-A Constant Volume Single Zone HVAC		
		\boxtimes	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required		
			NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only		
		\boxtimes	NRCA-MCH-05-A Air Economizer Controls		
			NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems require to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based maintaining interior carbon dioxide (CO2) concentration setpoints		
		\boxtimes	NRCA-MCH-07-A Supply Fan Variable Flow Controls		
		\boxtimes	NRCA-MCH-08-A Valve Leakage Test		
Mechanical		\boxtimes	NRCA-MCH-09-A Supply Water Temperature Reset Controls		
		\boxtimes	NRCA-MCH-10-A Hydronic System Variable Flow Controls		
		\boxtimes	NRCA-MCH-11-A Automatic Demand Shed Controls		
		\boxtimes	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		
		\boxtimes	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		
		\boxtimes	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance		
		\boxtimes	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance		
		\boxtimes	NRCA-MCH-16-A Supply Air Temperature Reset Controls		
		\boxtimes	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		
		\boxtimes	NRCA-MCH-18 Energy Management Control Systems		
		\boxtimes	NRCA-MCH-19 Occupancy Sensor Controls		

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Q. DECLARATION O	OF REQUIRED CERTIFICATES OF	VERIF	CATIO	N .			
compliance. These	documents bust be retained an	d prov	ided to	Author to indicate which Certificates of Verification must be submitted for the fea the building inspector during construction and can be found online at: pliance_documents/Nonresidential_Documents/NRCV/	tures to be recognized	for	
Building Component YES NO Form/Title					Fiel		
Buile	ding Component	YES	NO	Form/Title	⊢		_
Build	ding Component				P	ass	Fail
Build	ding Component	YES		NRCV-MCH-04-H Duct Leakage Test	P		Fail
					Pi	ass	Fail
	ding Component Mechanical			NRCV-MCH-04-H Duct Leakage Test	Pi	ass	Fail
				NRCV-MCH-04-H Duct Leakage Test NRCV-MCH-24-H Enclosure Air Leakage	Pi	ass	Fail
			⋈⋈⋈	NRCV-MCH-04-H Duct Leakage Test NRCV-MCH-24-H Enclosure Air Leakage NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	P	Pass	Fail

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.		() 0
Documentation Author Name: Wayne Seward	Signature:	1000 = 1000
Company: Bear Technologies Consulting, Inc.	Jognature.	MOINE EWARE
Address: 3431 Don Arturo Drive	Signature Date: 2020-10-26	
City/State/Zip: Carlsbad CA 92010	CEA/ HERS Certification Identification (if applicable): NR19-	04-20052
Phone: 760.635.2327		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Signature:				
Signature.				
Date Signed:				
Title:	License #:			
Signature: NOT IN SCORE				
Signature. NOT IN SCOPE				
Date Signed:				
Title:	License #:			
Signature				
Signature.				
Date Signed:				
Title:	License #:			
	Title: Signature: NOT IN SCOPE Date Signed: Title: Signature: Date Signed:			

Report Version: NRCC-PRF-01-E-04282020-6206

Project Name Class Room - Pala Office	Buildings						26/2020
System Name Ductless Mini-Split						Floor	Area 1,000
ENGINEERING CHECKS		SYSTEM LOAD					1,000
	1	STOTEM LOAD	COII	COOLING P	EAK	COIL HI	G. PEAK
Number of Systems			CFM	Sensible		CFM	
Heating System	48,000	Total Room Loads	1,334	23,129	Latent 7,692	390	Sensible 16,35
Output per System	48,000	Total Room Loads	1,004	0	7,002	300	10,00
Total Output (Btuh)	48.0	Kotarii Vontoa Eighting		1,156		-	81
Output (Btuh/sqft)	+0.0	Kotam Ali Buoto		0		-	
Cooling System	30,000	Return Fan	578	8,545	1,270	578	26,38
Output per System	30,000	Ventuation	570	608	1,210	373	-60
Total Output (Btuh)	2.5			1,156		ŀ	81
Total Output (Tons)	30.0	Oupply All Ducts		1,100		-	
Total Output (Btuh/sqft)	400.0			34,595	8,962	-	43,77
Total Output (sqft/Ton)	+00.0	TOTAL SYSTEM LOAD		34,393	0,902		43,77
Air System	1,125						
CFM per System		TIVAO EQUIT MENT DELECTION		20.074	ام	ı	00.07
Airflow (cfm)	1,125	·		30,971	0		29,97
Airflow (cfm/sqft)	1.13					_	
Airflow (cfm/Ton)	450.0			00.074		_	00.07
Outside Air (%)	51.4%	Total Majaotoa Oyotom Output		30,971	0		29,97
Outside Air (cfm/sqft)	0.58						
Note: values above given at ARI		TIME OF SYSTEM PEAK (Airstream Temperatures at Time of		51)	Aug 3 PM		Jan 1 Al
Outside Air 578 cfm	47 °F Heating	110 °F Supply Far 1,125 cfm	111 °F →		RC	ом	10 °F
69 °F	—					7	'0
COOLING SYSTEM PSYCHR	OMETRICS	(Airstream Temperatures at Time	of Cooling	Peak)			
89 / 69 °F	82	Supply Fan	55 °F →			58	/ / 56 °F
Outside Air 578 cfm		Cooling Coil 1,125 cfm					

ZONE LOAD SUMMARY	
Project Name	Date
Class Room - Pala Office Buildings	10/26/2020
System Name	Floor Area
Ductless Mini-Split	1,000

ZONE LOAD SUMMARY

			ZONAL SYSTEM						COOLING PEAK			HEATING PEAK	
ZONE NAME	SYSTEM NAME	Mult.	CFM	Sensible	Latent	Heating		Peak Hr	CFM	Sensible	Latent	CFM	Sensible
Classroom		1.0					578	Aug 3 PM	1,334	32,268	13,022	390	43,166
		1											
		1											
		т(OTALS	0	0	0	578	Aug 3	PM	32,268	13,022		43,166
		- 10	, IALU					1		(BLOCK			-,

Indoor Lighting

NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE										NRCC-LTI-E
This document is used to demonstrate compli path.	iance with requirements	in <mark>§</mark>	110.9, §110.12(c), §130.	. <u>0</u> , <u>§</u>	<u>\$130.1</u> , <u>§140.6</u> a	and <u>§141.0(b)2</u> for ind	oor	lighting scopes using t	he	prescriptive
Project Name:	Class Ro	om -	Pala Office Buildings Repo	rt P	age:					(Page 1 of 7)
Project Address:	Pala Temecula Road Date	Pre	pared:					10/26/2020		
									_	
A. GENERAL INFORMATION										
01 Project Location (city)	Pala			04 Total Conditioned Floor Area (ft²)				1,000		
02 Climate Zone	10			05	Total Unconditioned Floor Area (ft²)			0		
O3 Occupancy Types Within Project (select all that apply):				06	# of Stories (Ha	bitable Above Grade)		1		
□ Office □	Retail		Warehouse		Hotel/Motel [School] S	upport Areas
□ Parking Garage □	High-Rise Residential		Relocatable		Healthcare		X	Other (Write in)		See Table I
								,		
B. PROJECT SCOPE										
This table includes any lighting systems that a §141.0(b)2 for alterations.	are within the scope of th	he p	ermit application and ar	e de	emonstrating co	mpliance using the pre	scri	otive path outlined in	<u>§14</u>	<u>10.6</u> or
Scope of Wor	rk			Co	nditioned Space	es es		Unconditioned	l Sp	aces
01			()2		03		04		05
My Project Consists of (chec	k all that apply):		Calculation	on N	/lethod	Area (ft²)		Calculation Method		Area (ft²)
□ New Lighting System	Area Categ	Area Category Method		1000		Area Category Method		0		
☐ New Lighting System - Parking Garage										
Total Area of Work (ft²)				1000			0			

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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Indoor Lighting

NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Class Room - Pala Office Buildings	Report Page:	(Page 2 of 7)
Project Address:	35990 Pala Temecula Road	Date Prepared:	10/26/2020

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

7 . 7	· · · · · · · · · · · · · · · · · · ·												
		Allowed Light	ing Power per	§140.6(b) (Wa	atts)			Adjusted Lig	hting Power per	<u>§14</u>	10.6(a) (Watts)		Compliance Results
Lighting in	01	02	03	04		05		06	07		08		09
conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	=	Total Allowed (Watts)	≥	Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	Ш	Total Adjusted (Watts) *Includes Adjustments		05 must be >= 08 <u>§140.6</u>
	(See Table 1)	(See Table I)	(See Table 3)	(See Table K)				(See Table 1)	(See Table 1)			L	
Conditioned		700	0		=	700	≥	558	0	=	558		COMPLIES
Unconditioned					=		≥			=			
	Controls Compliance (See Table H for Details)										COMPLIES		
	Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

Designed Watt	age. Conditioned Spaces									
01	02	03	04	05	06	07	08	09	1	0
Name or Item	Complete Luminaire	Modular	Small Aperture &	Watts per luminaire ²	How is Wattage determined	Total Number	Excluded per	Design Watts	Field In	spector
Tag	Description	(Track) Fixture	Color Change ¹			of Luminaires	§140.6(a)3	Design wates	Pass	Fail
LED	_LED	No	No	31	Mfr. Spec	18	No	558		
	Total Designed Watts: CONDITIONED SPAC									

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	Class Room - Pala Office Buildings Report Page:	(Page 3 of 7)
Project Address:	35990 Pala Temecula Road Date Prepared:	10/26/2020

F. INDOOR LIGHTING FIXTURE SCHEDULE

G. MODULAR LIGHTING SYSTEMS This section does not apply to this project. H. INDOOR LIGHTING CONTROLS (Not including PAFs)

H. INDOOR LIGHTING CONT	. INDOOR LIGHTING CONTROLS (NOT INCIDENING PAPS)										
	his table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how ompliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.										
Building Level Controls											
01				02							
Mandatory		Shut-off cont	rols 8130 1(c)			Field In	spector				
Mandatory Demand Response §110.12(c)								Pass	Fail		
Not Required <= 10,000 SF See Area/Space Level Controls					ols						
Area Level Controls											
04	05	06	07	08	09	10	11	1	12		
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Daylighting	Interlocked Systems §140.6(a)1	Field Inspector			
					<u>3====(=,</u>			Pass	Fail		
Classroom	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No				
*NOTES: Controls with a * requ	NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.						13				
X: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 5 <u>§130.1(d)2</u>					Plan Sheet Showing Daylit Zones:						

Registration Number: Registration Date/Time: Registration Provider: Energysoft

E-1

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¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

Indoor Lighting

NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	Class Room - Pala Office Buildings Report Page:	(Page 4 of 7)
Project Address:	35990 Pala Temecula Road Date Prepared:	10/26/2020

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

	01	02	03	04	05	0	06			
	Area Description	Complete Building or Area Category Primary	Allowed Density	Area (ft²)	Allowed Wattage	Additional Allowance / Adjustment				
		Function Area	(W/ft ²)	Area (It-)	(Watts)	Area Category	PAF			
ſ	Classroom	Classroom, Lecture, or Training Vocational Area	0.7	1,000	700	No	No			
			TOTALS:	1,000	700	See Tables J,	or P for detail			

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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Indoor Lighting

NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Class Room - Pala Office Buildings	Report Page:	(Page 5 of 7)
Project Address:	35990 Pala Temecula Road	Date Prepared:	10/26/2020

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector		
ics No		Tomy nuc	Pass	Fail	
•		NRCI-LTI-01-E - Must be submitted for all buildings			
0		NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.			
0		NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.			
	•	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.			
	•	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.			

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION NRCC-LTI-E

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Class Room - Pala Office Buildings	Report Page:	(Page 6 of 7)
Project Address:	35990 Pala Temecula Road	Date Prepared:	10/26/2020

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	No Form/Title		spector
163	No Form/ fide		Pass	Fail
		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
•		NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		
	•	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		
	•	NRCA-LTI-05-A Must be submitted for institutional tuning power adjustment factor (PAF)		

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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Indoor Lighting

NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Class Room - Pala Office Buildings	Report Page:	(Page 7 of 7)
Project Address:	35990 Pala Temecula Road	Date Prepared:	10/26/2020

OCUMENTATION AUTHOR'S DECLARATION STATEMENT							
I certify that this Certificate of Compliance documentation is							
Documentation Author Name: Wayne Seward	Documentation Author Signature:						
Company: Bear Technologies Consulting, Inc.	Signature Date: 2020-10-26	Manzo Sware					
Address: 3431 Don Arturo Drive	CEA/ HERS Certification Identification (if applica NR19-04-20052	702					
City/State/Zip: Carlsbad CA 92010	Phone: 760.635.2327						

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- 1. The information provided on this Certificate of Compliance is true and correct.
- 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- 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.

1 3 17	1 ,
Responsible Designer Name: Paul Olson	Responsible Designer Signature:
	Date Signed: 2020-10-26
Address: 1050 Rod Street	License:
	Phone: 760.728.9691

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Schema Version: rev 20190401

Outdoor Lighting NRCC-LTO-E

CC-LTO-E CALIFORNIA ENERGY COMMISSION

NKCC-LIO	I-E							•	SALII OIIII	IA LIVLING	COMMISSION
CERTIFIC	CATE OF COMPLIANCE										NRCC-LTO-E
Project I	Name:		Class Ro	om - Pala Office Buildings	Report Pag	ge:					(Page 1 of 7)
Project /	Address:		3	5990 Pala Temecula Road	Date Prepa	ared:					10/26/2020
A. GEN	ERAL INFORMATION										
01	Project Location (city)	Pala			0.4	Takal Illiansin akadı	11				
02	Climate Zone	10			04	lotal illuminated i	Hardscape Area (ft ²)	ا			
03 (Outdoor Lighting Zone per Title 24 Part 1	§10.1	14 or as desig	nated by Authority Havir	ng Jurisdio	ction (AHJ):		•			
	Z-0: Very Low - Undeveloped Parkland		LZ-2: Modera	te - Rural Areas		LZ-4: High - Must	be reviewed by CA En	ergy Co	mmission	for Appro	val
	Z-1: Low - Developed Parkland		LZ-3: Modera	tely High - Urban Areas							
This tab <u>§141.0(</u>	DIECT SCOPE The includes outdoor lighting systems that The includes outdoor. The includes outdoor.	t are w	ithin the scope	of the permit application	on and are	e demonstrating co	mpliance using the pr	escripti	ve path ou	utlined in §	140.7 or
IVIY Pro	ject Consists of:						02				
	01			NA Committee Aller		5440.7	02				
	New Lighting System			Must Comply with Allow			11 (\\\+-\)2				NI-
	Altered Lighting System			Is your alteration increa		connected lighting	ioad (watts)?		Yes		No
	03	1			04				05		
	% of Existing Luminaires Being Al			Sum Total of Luminair	res Being <i>i</i>	Added or Altered		Calcula	ation Meth	nod 	
	< 10%	[>= 50%								
Please	proceed to Table F. Outdoor Lighting Fix	cture Sc	hedule to defi	ne the project's luminai	ires.						
¹ FOOTI	NOTES: % of Existing Luminaires Being A	ltered =	: (Sum Total of	Luminaires Being Added	d or Altere	ed / Existing Lumina	aires within the Scope	of the F	Permit App	olication) x	<i>100.</i>

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20190401

CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Class Room - Pala Office Buildings	Report Page:	(Page 2 of 7)
Project Address:	35990 Pala Temecula Road	Date Prepared:	10/26/2020

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

	Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L									Co	mpliance Results				
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	П	Total Allowed (Watts)	ΛΙ	Total Actual (Watts)	07 must be >= 08
0	+		+		+		+	216	OR		II	216	ΛΙ	216	COMPLIES
	Cutoff Compliance (See Table G for Details)										N/A				
	·				ontro	ols Compliance	1500	Table H for Det	tails)			_		-	COMPLIES

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Controls Compliance (See Table H for Details)

COMPLIE

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

E-1

Registration Number: Registration Date/Time: Registration Provider: Energysoft

> Report Version: 2019.1.003 Schema Version: rev 20190401

NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Class Room - Pala Office Buildings	Report Page:	(Page 3 of 7)
Project Address:	35990 Pala Temecula Road	Date Prepared:	10/26/2020

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with \$140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per \$141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	0		
Name or Item Tag Complete Luminaire Description		scription	Watts per luminaire ^{1, 2}	How is Wattage	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output	Fie Inspe		
lag		iu		determined		Juninalies Status		<u>3140.7(a)</u>		§130.2(b) ⁴	Pass	Fail
M/P	_LED M/P		27	Mfr. Spec	8	New		216	NA: < 6200 lumens			
	Total Design Watts:											

^{*} NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)	
his section does not apply to this project.	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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¹FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)

² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁴ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

NRCC-LTO-E					CALIFO	RNIA ENER	GY COMMISSION
CERTIFICATE OF COMPLIANCE							NRCC-LTO-E
Project Name:	Class Room - Pala Office Build	ings Report Page:					(Page 4 of 7)
Project Address:	35990 Pala Temecula R	oad Date Prepared:					10/26/2020
H. OUTDOOR LIGHTING CONTROLS							
This table demonstrates compliance with contexisting to remain (ie untouched) and luminai the permit application. When an option having a * is selected, the no "DOES NOT COMPLY" if the notes are left blan	res which are removed and reinstalled (wiri	ing only) do not need	to be inclu	ded in this table even if th	ey are with	nin the spac	es covered by
Mandatory Controls							
01	02	03		04			05
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	le Motion Sensor §130.2(c)3		Field	d Inspector	
				<u>2=23.4(2)=</u>		Pass	Fail
Building Facade	Photocontrol	Yes		Yes			
* NOTES: Controls with a * require a note in the sp EX: Not permitted by health & safety to be turned of		d.					
LUCUTING DOWER ALLOWANCE (See	40.71						
I. LIGHTING POWER ALLOWANCE (per §1	·						
This table includes areas using allowance calc				01			
Allowance is per <u>Table 140.7-A</u> while "Use it o Indicate which allowances are being used to e	• • • • • • • • • • • • • • • • • • • •	· ☐ General		r lose it" Allowance (select	t all that ap		
that qualify for one of the "Use it or lose it" al it or lose it" allowance.		Hardscape Allowance Table I (below)	☐ Pe Applicat Table	ion Sales Frontage	☐ Ornai Tabl	mentai	Per Specific Area Table M
Calculated General Hardscape Lighting Power	Allowance per Table 140.7-A (LZ 0, 1 & 4)						
This section does not apply to this project.							
Calculated General Hardscape Lighting Power	Allowance per Table 140.7-A (LZ 2 & 3)						
This section does not apply to this project.							
J. LIGHTING ALLOWANCE: PER APPLICATI	ON						
This section does not apply to this project.							

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
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K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from <u>Table 140.7-B</u>. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
		CALCULAT	ED ALLOWAN	CE (Watts)		DESIGN	WATTS		Additional
Area Description	Specific Area Type per <u>Table</u> <u>140.7-B</u>	Specific Area (ft²)¹	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Allowance
Building Facade	BuildingFacade	1300	0.17	221	M/P	27	8	216	216
Total Design Watts for this Area: 216									
Total Allowance (Watts) All Areas:				216					

¹ FOOTNOTES: See <u>Table 140.7-B</u> for rules for calculating the specific areas (ft^2 for these additional lighting allowances.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

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² For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
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Project Address:	35990 Pala Temecula Road	Date Prepared:	10/26/2020

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019 compliance documents/Nonresidential Documents/NRCI/

Yes No		Form/Title		Field Inspector	
				Fail	
		NRCI-LTO-01-E - Must be submitted for all buildings			
•		NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.			

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes No		Form/Title		Field Inspector	
				Fail	
•		NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.			

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Class Room - Pala Office Buildings	Report Page:	(Page 7 of 7)
Project Address:	35990 Pala Temecula Road	Date Prepared:	10/26/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT				
I certify that this Certificate of Compliance documentation				
Documentation Author Name: Wayne Seward	Documentation Author Signature:	(
Company: Bear Technologies Consulting, Inc.	Signature Date: 2020-10-26	MOINE EWARD		
Address: 3431 Don Arturo Drive	CEA/ HERS Certification Identification (if applica NR19-04-20052			
City/State/Zip: Carlsbad CA 92010	Phone: 760.635.2327			

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name: Paul Olson	Responsible Designer Signature:
1 ' '	Date Signed: 2020-10-26
Address: 1050 Rod Street	License:
	Phone: 760.728.9691

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003
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