

Autodesk Docs/018607000 - SCUSD Matsuyama ES Modernization/0000-A-MATSUYAMA-MOD-01
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J. VENTILATION AND INDOOR AIR QUALITY
2 Air filtration requirements apply to the following three system types per 120.1(c)(1): a) space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
3 Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
4 See Standards Tables 120.1-A and 120.1-B.
5 For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
6 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation.
Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)
This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.
01 Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.
Duct Leakage Testing
The answers to the questions below apply to the following duct systems: MAU-1-1 NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

G. PUMPS
This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS
This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	MAU-1-1	Quantit y	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,575	Site Elevation	17	Economizer	NA: Special OA Filtration
Fan Name or Item Tag		Qty		Component		Airflow through Component (%)		Water Gauge (w.g)	Componen nt Allowance	Fan Allowance (watt/cfm) ³		Design Electrical Input Power Method		Motor Nameplate Horsepower	Design Electrical Input Power (kW)
01		03		04		05		06	07	08		09		10	11
MAU-1-1	Supply	1		Base Allowance for system serving spaces <=6 floors away		1,575		365				Manufacturer provided			1.11
				MERV 13-16 Filter upstream of thermal conditioning equipment		1,575		219							
				Gas Heat		1,575		91							
				Hydronic/CX cooling coil or heat pump coil		1,575		219							
				Supply Fan System		1,575		219							
Supply Fan Base Allowance (kW)				Exhaust/Return/Relief/Transfer Fan Base Allowance (kW)				Fan System Allowance (kW) ³			1.11			Fan System Electrical Output (kW)	1.11

² FOOTNOTES: Fans serving spaces with design background noise goals below NC35
³ Low-turnaround single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
⁴ Fan system allowance includes fan system base allowance.

L. DISTRIBUTION (DUCTWORK AND PIPING)

System Name	MAU-1-1	Quantit y	1	Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
01		03		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No			The scope of the project includes only duct systems serving healthcare facilities	
12	Yes			Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes			The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No			The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.	
15				The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No			The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17				All ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18				All ductwork is an extension of an existing duct system	
19				Ductwork serving individual dwelling unit	
20				< 25 ft of new or replacement space conditioning ducts installed	
21	R-8			Duct Insulation R-value	
22					
23					

M. COOLING TOWERS
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/NRCC/

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Captiveair CASRTU1-1.125-15-6T;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes" if Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Captiveair CASRTU1-1.125-15-6T;
NRCA-MCH-11-A Automatic Demand Shed Controls	Captiveair CASRTU1-1.125-15-6T;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Captiveair CASRTU1-1.125-15-6T;
NRCA-MCH-18-A Energy Management Control Systems	Captiveair CASRTU1-1.125-15-6T;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

A. GENERAL INFORMATION

01	02	03	04	05	06
Project Location (city)	Sacramento	Total Conditioned Floor Area	991		
Climate Zone	12	Total Unconditioned Floor Area	0		
Occupancy Types Within Project:		# of Stories (Habitable Above Grade)	1		

Support Areas: All Other Occupancies

B. PROJECT SCOPE
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
	<input type="checkbox"/> System Piping	<input checked="" type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork (existing to remain, altered or new)
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04	05	06	07	08	09
System Summary	Pumps	Fans/Economizers	System Controls	Ventilation	Terminal Box Controls	Distribution	Cooling Towers	Compliance Results
110.1, 110.2, 140.4, 170.2(c)	140.4(a), 170.2(c)(4)	140.4(c), 140.4(e), 170.2(c)	110.2, 120.2, 140.4(f), 170.2(c)	120.1, 160.2	140.4(d), 170.2(c)(4B)	120.3, 140.4(i), 160.2, 160.3	110.2(e)2	
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	
Yes	AND	AND	AND	AND	AND	AND	AND	COMPLIES

Mandatory Measures Compliance (See Table Q for Details) COMPLIES

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. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
MAU-1-1	1	Single zone	Alteration		<input type="checkbox"/>

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3(a)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
MAU-1-1	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	NA: Altered per 141.(b)2E and 180.2(b)2	74.7	74.7	0	78.1	73.4	108.63	73.79

¹ FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are exempted.
² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
³ If authority has heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DDAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
MAU-1-1	>=65,000 and <135,000		AFUE	0.8	0.81	EER IEER	11.0 14.6	12.2 19.5



HMC Architects
3186-070-000

2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

DESCRIPTION	DATE
1 ADDENDUM #1	03/01/2024



FACILITY: MATSUYAMA ELEMENTARY SCHOOL
7680 WINBRIDGE DR. SACRAMENTO, CA 95831

PROJECT: MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME: TITLE 24 COMPLIANCE - KITCHEN

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET:

T24.09

FILE LINE INFORMATION IS
LOCATED IN THE
SHEET ORIGINAL PAGE SIZE

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02	
Compliance with Mandatory Measures documented through MCH	Yes	Plan sheet or construction document location	
Mandatory Measures Note Block		M-Sheets	

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-4955-1223-1599
 Schema Version: rev 20220101 Report Generated: 2023-12-14 14:04:30

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Lydia Reynolds	Documentation Author Signature: <i>[Signature]</i>
Company: LP Consulting Engineers, Inc.	Signature Date: 2023-12-14
Address: 1209 Pleasant Grove Blvd.	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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: Ryan Ennis	Responsible Designer Signature: <i>[Signature]</i>
Company: LP Consulting Engineers, Inc.	Date Signed: 2023-12-14
Address: 1209 Pleasant Grove Blvd.	License: M41413
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

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AGENCY APPROVAL:



HMC Architects
 3186-070-000
 2101 CAPITOL AVENUE, SUITE 100,
 SACRAMENTO, CA, 95816
 916 368 7990 / www.hmcarchitects.com

ISSUE	DESCRIPTION	DATE
1	ADDENDUM #1	03/01/2024

MEP & FS / Sustainability / CxA
 LP CONSULTING ENGINEERS
 1209 Pleasant Grove Blvd.
 Roseville, CA 95678
 p 916-771-0778
 www.lpengineers.com
 Job #: 23-2274

FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
 7680 WINDBRIDGE DR.
 SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME:
TITLE 24 COMPLIANCE - KITCHEN

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000
 SHEET:

T24.10

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: Matsuyama Elementary School Modernization Report Page: (Page 7 of 7)
Project Address: 7680 Windbridge Dr Date Prepared: 1/10/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Rami Zeidan
Signature Date: 2024-01-10
Company: LP Consulting Engineers, Inc.
Address: 1209 Pleasant Grove Blvd
City/State/Zip: Roseville CA 95678

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: Rami Zeidan
Signature Date: 2024-01-10
Company: LP Consulting Engineers
Address: 1209 Pleasant Grove Blvd.
City/State/Zip: Roseville CA 95678

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: Matsuyama Elementary School Modernization Report Page: (Page 4 of 7)
Project Address: 7680 Windbridge Dr Date Prepared: 1/10/2024

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector
Electrical and Fire Room	Office	Readily Accessible	NA: Enclosed area <100SF	NA: Elec. equip. rm	NA: Garage < 36sf opening	NA: Garage < 36sf opening	No	Pass Fail

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(e) are being used.

01	02	03	04	05	05
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/Ft ²)	Area (Ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category PAF
Whole Building	School or Classroom	0.6	7,073	4,243.8	No No
TOTALS:		7,073	7,073	4,243.8	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: Matsuyama Elementary School Modernization Report Page: (Page 1 of 7)
Project Address: 7680 Windbridge Dr Date Prepared: 1/10/2024

A. GENERAL INFORMATION

01 Project Location (city)	Sacramento	04 Total Conditioned Floor Area (Ft ²)	0
02 Climate Zone	12	05 Total Unconditioned Floor Area (Ft ²)	7,073
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

• Office

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
01 My Project Consists of (check all that apply):	02 Calculation Method	03 Calculation Method
03 New Lighting System	Complete Building Method	Complete Building Method
04 New Lighting System - Parking Garage		
Total Area of Work (Ft²)	0	7073

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STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: Matsuyama Elementary School Modernization Report Page: (Page 1 of 7)
Project Address: 7680 Windbridge Dr Date Prepared: 1/10/2024

A. GENERAL INFORMATION

01 Project Location (city)	Sacramento	04 Total Illuminated Hardscape Area (Ft ²)	8312
02 Climate Zone	12	03 Outdoor Lighting Zone per Title 24 Part 1.10.114 or as designated by Authority Having Jurisdiction (AHJ):	
04 LZ-0: Very Low - Undeveloped Parkland <input type="checkbox"/> LZ-2: Moderate - Urban Clusters <input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval			
05 LZ-1: Low - Rural Areas <input checked="" type="checkbox"/> LZ-3: Moderately High - Urban Areas <input type="checkbox"/>			
05 Occupancy Types within Project			
• Office			

B. PROJECT SCOPE
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2 / 180.2(b)4Bv for alterations.

My Project Consists of:

01 New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	02 Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	03 Yes <input type="radio"/> No <input checked="" type="radio"/>
03 % of Existing Luminaires Being Altered ¹		04 Sum total of Luminaires Being Added or Altered		05 Calculation Method
<input type="checkbox"/> < 10% <input type="checkbox"/> >= 10% and < 50% <input type="checkbox"/> >= 50%				

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.
¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: Matsuyama Elementary School Modernization Report Page: (Page 5 of 7)
Project Address: 7680 Windbridge Dr Date Prepared: 1/10/2024

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 DECORATIVE /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.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE 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.

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STATE OF CALIFORNIA
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Project Name: Matsuyama Elementary School Modernization Report Page: (Page 2 of 7)
Project Address: 7680 Windbridge Dr Date Prepared: 1/10/2024

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results		
	01 Complete Building 140.6(c)1	02 Area Category 140.6(c)2 / 170.2(e)4	03 Area Category Additional 140.6(c)3 / 170.2(e)4A (+)	04 Tailored 140.6(c)3 / 170.2(e)4B (+)	05 Total Allowed (Watts)	06 Total Designed (Watts)	07 Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	08 Total Adjusted (Watts) *Includes Adjustments		09 05 must be >= 08 140.6 / 170.2(e)	
(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	=	(See Table F)	(See Table P)	=			
Conditioned	4,244	=	=	=	4,244	=	1,161	0	=	1,161	COMPLIES
Unconditioned											COMPLIES
Controls Compliance (See Table H for Details)											
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.

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STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: Matsuyama Elementary School Modernization Report Page: (Page 2 of 7)
Project Address: 7680 Windbridge Dr Date Prepared: 1/10/2024

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through N. 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 / 170.2(e)6 or 141.0(b)2 / 180.2(b)4Bv						Compliance Results		
01 General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	02 Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	03 Sales Frontage 140.7(d)2 / 170.2(e)6 (See Table K)	04 Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	05 Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	06 Existing Power Allowance 141.0(b)2 / 180.2(b)4Bv (See Table N)	07 Total Allowed (Watts)	08 Total Actual (Watts)	09 07 must be >= 08
515						515	324	COMPLIES
Shielding Compliance (See Table G for Details)								COMPLIES
Controls Compliance (See Table H for Details)								Not applicable

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.

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: Matsuyama Elementary School Modernization Report Page: (Page 3 of 7)
Project Address: 7680 Windbridge Dr Date Prepared: 1/10/2024

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections 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.
Form/Title
NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selections 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/ottcp/providers.html>
Form/Title
NRCA-LTI-Q2-A - Must be submitted for occupancy sensors and automatic time switch controls. Whole Building Time Switch.

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STATE OF CALIFORNIA
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F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designated Wattage: Unconditioned Spaces									
01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change ¹	05 Watts per luminaire ²	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per 140.6(a)3 / 170.2(e)2C	09 Design Watts	10 Field Inspector
L4	L4, STLDI, LED	No	NA	25	Mfr. Spec	8	No	200	Pass Fail
L6	L6, STLDI, LED	No	NA	37	Mfr. Spec	3	No	111	Pass Fail
L8	L8, STLDI, LED	No	NA	50	Mfr. Spec	17	No	850	Pass Fail
Total Designated Watts: UNCONDITIONED SPACES									1,161

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% / 80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls		
01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel	Whole Building Auto Time Switch	Pass Fail

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AGENCY APPROVAL:



HMC Architects
3186-070-000
2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

DESCRIPTION	DATE
1 ADDENDUM #1	03/01/2024

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FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME:
TITLE 24 COMPLIANCE - ELECTRICAL BUILDING 2 AND SITE LIGHTING

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET:

T24.11

PLEASE RECYCLE