

Project Name:	OffLrg-PrkgLabKitch	NRCC-PRF-01-E	Page 1 of 20
Project Address:	95814	Calculation Date/Time:	13:18, Fri, Sep 04, 2020
Input File Name:	OffLrg-PrkgLabKitchen19.cibd19		

A. GENERAL INFORMATION					
1.	Project Location (city)	- specify -	8.	Standards Version	Compliance2019
2.	CA Zip Code	95814	9.	Compliance Software (version)	CBECC-Com 2019.1.3 Beta
3.	Climate Zone	12	10.	Weather File	SACRAMENTO-EXECUTIVE_724830_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	306,824 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	76,706 ft²	12.	Permitted Scope of Work	NewComplete
6.	Total # of Stories (Habitable Above Grade)	9	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY							
Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.							
Building Components Complying via Performance					Building Components Complying Prescriptively		
Envelope (see Table G)	<input checked="" type="checkbox"/>	Performance	Covered Process: Commercial Kitchens	<input checked="" type="checkbox"/>	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	<input type="checkbox"/>	Not Included		<input type="checkbox"/>	Not Included		
Mechanical (see Table H)	<input checked="" type="checkbox"/>	Performance	Covered Process: Computer Rooms	<input type="checkbox"/>	Performance	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E
	<input type="checkbox"/>	Not Included		<input checked="" type="checkbox"/>	Not Included	Outdoor Lighting §140.7	NRCC-LTO-E
Domestic Hot Water (see Table I)	<input checked="" type="checkbox"/>	Performance	Covered Process: Laboratory Exhaust	<input checked="" type="checkbox"/>	Performance	Sign Lighting §140.8	NRCC-LTS-E
	<input type="checkbox"/>	Not Included		<input type="checkbox"/>	Not Included	Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	<input checked="" type="checkbox"/>	Performance				Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	<input type="checkbox"/>	Not Included				Electrical Power Distribution S110.11	NRCC-ELC-E is required
Solar Thermal Water Heating (see Table I)	<input type="checkbox"/>	Performance				Commissioning S120.8	NRCC-CXR-E is required
	<input checked="" type="checkbox"/>	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)

DOES NOT COMPLY

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Space Heating	51.29	40.54	10.75
Space Cooling	39.97	86.99	-47.02
Indoor Fans	53.68	66.55	-12.87
Heat Rejection	7.37	0.82	6.55
Pumps & Misc.	20.49	17.57	2.92
Domestic Hot Water	10.65	9.33	1.32
Indoor Lighting	49.96	58.86	-8.90
ENERGY STANDARDS COMPLIANCE TOTAL	233.41	280.66	-47.25 (-20.2%)

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

<input type="checkbox"/> This project is pursuing CalGreen Tier 1		<input type="checkbox"/> This project is pursuing CalGreen Tier 2	
Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Receptacle	132.67	132.67	--
Process	22.59	22.59	--
Other Ltg	5.33	5.78	-0.45
Process Motors	2.38	2.38	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	396.38	444.08	-47.7 (-12.0%)

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

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C3. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.5	0.4	0.1	8,265.9	6,471.0	--
Space Cooling	274.8	655.4	-380.6	--	--	--
Indoor Fans	555.4	699.3	-143.9	--	--	--
Heat Rejection	42.8	3.4	39.4	--	--	--
Pumps & Misc.	182.9	183.6	-0.7	--	--	--
Domestic Hot Water	28.3	--	--	1,363.8	1,590.4	--
Indoor Lighting	531.6	628.4	-96.8	--	--	--
Compliance Total	1,616.3	2,170.5	--	9,629.7	8,061.4	--
Receptacle	1,301.5	1,301.5	--	2,251.3	2,251.3	--
Process	251.8	251.8	0.0	--	--	--
Other Ltg	58.0	62.7	-4.7	--	--	--
Process Motors	26.5	26.5	0.0	--	--	--
Photovoltaics	--	--	--	--	--	--

C4. UNMET LOAD HOURS
This Section Does Not Apply

D. EXCEPTIONAL CONDITIONS
The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.
This project includes mechanical ventilation systems for enclosed parking garages having total design exhaust rate greater than or equal to 10,000 cfm. Please verify the design meets the Mandatory Requirements for Enclosed Parking Garages as per Section 120.6 (c).

E. HERS VERIFICATION
This Section Does Not Apply

F. ADDITIONAL REMARKS
This Section Does Not Apply

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G1. ENVELOPE GENERAL INFORMATION

1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
North-Facing ¹	23,026 ft ²	9,981 ft ²	43.3%
East-Facing ²	15,351 ft ²	6,653 ft ²	43.3%
South-Facing ³	23,026 ft ²	9,981 ft ²	43.3%
West-Facing ⁴	15,351 ft ²	6,653 ft ²	43.3%
Total	76,753 ft²	33,267 ft²	43.3%
Roof	0 ft ²	0 ft ²	00.0%

Notes:

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).

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).

G2. CRRC ROOFING PRODUCT SUMMARY

1	2	3	4	5
Assembly Name	Roof Pitch	Aged Solar Reflectance	Thermal Emittance	SRI
Base_CZ12-FlatNonresWoodFramingAndOtherRoofU039	Low-Slope	0.63	0.85	Not Provided

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Surface Name	Surface Type	Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status ¹	Description of Assembly Layers
Base_CZ12-NonresMetalFrameWallU062	ExteriorWall	93545	Metal	0	14	U-Factor: 0.062	N	Stucco - 7/8 in. Compliance Insulation R13.99 Air - Metal Wall Framing - 16 or 24 in. OC Gypsum Board - 1/2 in.
Base_CZ12-SlabOnOrBelowGradeF073	UndergroundFloor	38353	NA	0	NA	F-Factor: 0.730	N	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0
Base_CZ12-BelowGradeWallC114	UndergroundWall	6398	NA	0	NA	C-Factor: 1.140	N	Concrete - Solid Grout - 115 lb/ft ³ - 8 in.

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G3. OPAQUE SURFACE ASSEMBLY SUMMARY								
1	2	3	4	5	6	7	8	9
Surface Name	Surface Type	Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status ¹	Description of Assembly Layers
Base_CZ12-FlatNonresWoodFramingAndOtherRoof U039	Roof	38353	NA	0	25	U-Factor: 0.039	N	Metal Standing Seam - 1/16 in. Compliance Insulation R24.86
NACM_Interior Wall	InteriorWall	61915	NA	0	NA	U-Factor: 0.403	N	Gypsum Board - 5/8 in. Gypsum Board - 5/8 in.
NACM_Drop Ceiling	InteriorFloor	345177	NA	0	NA	U-Factor: 0.292	N	Acoustic Tile - 3/4 in.
NACM_Interior Floor	InteriorFloor	345177	NA	0	NA	U-Factor: 0.238	N	Concrete - 140 lb/ft ³ - 4 in. Carpet - 3/4 in.

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

G4. OPAQUE DOOR SUMMARY								
This Section Does Not Apply								
G5. FENESTRATION ASSEMBLY SUMMARY								
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
Base_AllCZ_FixedWindowU36	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	37426	0.36	0.25	0.42	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.

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

G6. OVERHANG DETAILS
This Section Does Not Apply

H. HVAC SYSTEM SUMMARY

DEBUG

\$hasAirSys: 7 \$hasZoneSys: 0 \$hasVRF: 0 \$hasFluidSys: 4 \$hasResDHW: 0 CompType = NewComplete \$hasHVAC = true\$ airSysHealth = 0 \$znSysHealth = 0 \$effRptAir = 0 \$effRptZn = 0

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H1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)

Dry System Equipment ¹ (Fan & Economizer info included below in Table N)

1	2	3	4	5	6	7	8	9	10
Equipment Name	Equipment Type	Qty	Heating				Cooling		Status ⁵
			Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtu/h)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	
MidVAV	VAV (Packaged3Phase)	5	866	No	0	NA	1151	NA	N
OfficeVAV	VAV (Packaged3Phase)	1	156	No	0	NA	333	NA	N
Dining1 SZVAV	SZVAVAC (Packaged3Phase)	1	1193	No	0	ThrmEff-80.0	2044	EER-9.5	N
Dining2 SZVAV	SZVAVAC (Packaged3Phase)	1	109	No	0	AFUE-78.0	188	EER-10.8	N
LabVAV	VAV (Packaged3Phase)	1	6367	No	0	NA	9000	NA	N
Kitchen1MUA	SZAC (Packaged3Phase)	1	74	No	0	AFUE-78.0	135	EER-11.0	N
Kitchen2MUA	SZAC (Packaged3Phase)	1	150	No	0	AFUE-78.0	160	EER-10.8	N

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

H2. ECONOMIZER & FAN SYSTEMS SUMMARY¹

1	2	3	4	5	6	7	8	9	10	11	12	13
Name or Item Tag	System Type	Design OA	Supply Fan				Return Fan				Economizer Type (if present)	Status ⁵
	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
MidVAV	VAV	5753	38353	49.859	39338.4	VariableSpeedDrive	NA	NA	NA	NA	DifferentialEnthalpy	N
OfficeVAV	VAV	1664	11095	14.424	11639.1	VariableSpeedDrive	10541	5.111	2.00	VariableSpeedDrive	DifferentialDryBulb	N
Dining1 SZVAV	SZVAVAC	14992	54515	51.244	40218.7	VariableSpeedDrive	NA	NA	NA	NA	DifferentialDryBulb	N
Dining2 SZVAV	SZVAVAC	1087	5000	4.700	3915.7	VariableSpeedDrive	NA	NA	NA	NA	DifferentialDryBulb	N
LabVAV	VAV	196890	196890	255.957	198379.6	VariableSpeedDrive	NA	NA	NA	NA	NoEconomizer	N
Kitchen1MUA	SZAC	1000	3374	3.171	2641.9	ConstantVolume	NA	NA	NA	NA	DifferentialDryBulb	N

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H2. ECONOMIZER & FAN SYSTEMS SUMMARY ¹												
1	2	3	4	5	6	7	8	9	10	11	12	13
Name or Item Tag	System Type	Design OA	Supply Fan				Return Fan				Economizer Type (if present)	Status ⁵
	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
Kitchen2MUA	SZAC	4000	4000	3.760	3132.4	ConstantVolume	NA	NA	NA	NA	DifferentialDryBu lb	N

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

H3. EXHAUST FAN SUMMARY						
1	2	3	4	5	6	7
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H2O)
PrkgGarVent System	Basement Thermal Zone Core_bottom Thermal Zone Perimeter_bot_ZN_1 Thermal Zone Perimeter_bot_ZN_2 Thermal Zone Perimeter_bot_ZN_3 Thermal Zone Perimeter_bot_ZN_4 Thermal Zone	1	57,529	13.948	11254.9	1.00
LabExhaust System	Core_hi Thermal Zone Perimeter_hi_ZN_1 Thermal Zone Perimeter_hi_ZN_2 Thermal Zone	1	65,611	75.046	58652.2	4.50
KitchenExhaust	Perimeter_top_ZN_3 Thermal Zone Perimeter_top_ZN_4 Thermal Zone	1	7,700	6.067	4933.2	2.50
GeneralExhaust	Core_mid Thermal Zone Perimeter_top_ZN_1 Thermal Zone	1	4,800	1.746	1504.7	1.50

H4. Wet System Equipment (boilers, chillers, cooling towers, etc.)											
1	2	3	4	5	6	7	8	9	10	11	12
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Pumps				Status ¹
							Qty	GPM	HP	VSD (Y/N)	
ChW Loop ChW Primary Return	Chilled Water, Primary/Secondary	NA	NA	NA	NA	NA	1	1740.8	15.000	No	N
ChW Loop ChW Secondary Supply	Chilled Water, Primary/Secondary	NA	NA	NA	NA	NA	1	1740.8	40.000	Yes	N
WtrScrew Chiller	Screw	NA	NA	8707	kW/ton: 0.560	NA	NA	NA	NA	No	N

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H4. Wet System Equipment (boilers, chillers, cooling towers, etc.)											
1	2	3	4	5	6	7	8	9	10	11	12
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Pumps				Status ¹
							Qty	GPM	HP	VSD (Y/N)	
WtrCentrifugal Chiller	Centrifugal	NA	NA	8707	kW/ton: 0.560	NA	NA	NA	NA	No	N
HotWater Loop HW Primary Return	Heating Hot Water, Primary Only	NA	NA	NA	NA	NA	1	574.6	15.000	Yes	N
Mech Gas HW Blr	HotWater	NA	NA	5000	Thrml. Eff: 0.80	NA	NA	NA	NA	No	N
Atmos Oil HW Blr	HotWater	NA	NA	6496	Thrml. Eff: 0.80	NA	NA	NA	NA	No	N
Cooling Tower 1	OpenTower	NA	NA	10094	NA	NA	1	1689.0	30.000	No	N
Cooling Tower 2	OpenTower	NA	NA	10094	NA	NA	1	1689.0	30.000	No	N

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

H5. SYSTEM FEATURES					
1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
MidVAV	Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, DDC Controls and Dual Maximum Reheat Controls Differential Enthalpy Economizer Warmest Zone Supply Air Temp. Reset
OfficeVAV	Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, DDC Controls and Dual Maximum Reheat Controls Differential Drybulb Economizer Warmest Zone Supply Air Temp. Reset
Dining1 SZVAV	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, DDC Controls Differential Drybulb Economizer No Supply Air Temp. Control
Dining2 SZVAV	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, DDC Controls Differential Drybulb Economizer No Supply Air Temp. Control

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H5. SYSTEM FEATURES					
1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
LabVAV	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, DDC Controls and Dual Maximum Reheat Controls No Economizer Warmest Zone Supply Air Temp. Reset
Kitchen1MUA	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
Kitchen2MUA	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
SHWFluidSys1	NA	NA	NA	NA	Fixed Temperature Control, No DDC
ChW Loop	NA	NA	NA	NA	Fixed Temperature Control, DDC
HotWater Loop	NA	NA	NA	NA	Fixed Temperature Control, DDC
CondenserWater Loop	NA	NA	NA	NA	Fixed Temperature Control, No DDC
Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.					

H6. MECHANICAL VENTILATION AND REHEAT §120.1
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?	No

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H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
TerminalUnit-Core Mid	Core_mid Thermal Zone	VAVReheatBox	466.00	NA	27258	5452	0.20	NA	NA	NA	<input type="checkbox"/>
TerminalUnit_Perimeter_Mid_1	Perimeter_mid_ZN_1 Thermal Zone	VAVReheatBox	58.00	NA	3374	675	0.20	NA	NA	NA	<input type="checkbox"/>
TerminalUnit_Perimeter_Mid_2	Perimeter_mid_ZN_2 Thermal Zone	VAVReheatBox	37.00	NA	2174	435	0.20	NA	NA	NA	<input type="checkbox"/>
TerminalUnit_Perimeter_Mid_3	Perimeter_mid_ZN_3 Thermal Zone	VAVReheatBox	58.00	NA	3374	675	0.20	NA	NA	NA	<input type="checkbox"/>
TerminalUnit_Perimeter_Mid_4	Perimeter_mid_ZN_4 Thermal Zone	VAVReheatBox	37.00	NA	2174	435	0.20	NA	NA	NA	<input type="checkbox"/>
TerminalUnit-Perimeter_Hi_3	Perimeter_hi_ZN_3 Thermal Zone	VAVReheatBox	58.00	NA	3374	675	0.20	NA	NA	NA	<input type="checkbox"/>
TerminalUnit-Perimeter_Hi_4	Perimeter_hi_ZN_4 Thermal Zone	VAVReheatBox	37.00	NA	2174	435	0.20	NA	NA	NA	<input type="checkbox"/>
Dining1 TrmlUnit Core_top	Core_top Thermal Zone	VAVNoReheatBox	NA	NA	54515	27258	0.50	NA	NA	NA	<input type="checkbox"/>
Dining2 TrmlUnit Core_top	Perimeter_top_ZN_2 Thermal Zone	VAVNoReheatBox	NA	NA	5000	2500	0.50	NA	NA	NA	<input type="checkbox"/>
TerminalUnit-Core Hi	Core_hi Thermal Zone	VAVReheatBox	2797.00	NA	81797	16359	0.20	NA	NA	NA	<input type="checkbox"/>
TerminalUnit-Perimeter_Hi_1	Perimeter_hi_ZN_1 Thermal Zone	VAVReheatBox	346.00	NA	10124	2025	0.20	NA	NA	NA	<input type="checkbox"/>
TerminalUnit-Perimeter_Hi_2	Perimeter_hi_ZN_2 Thermal Zone	VAVReheatBox	223.00	NA	6524	1305	0.20	NA	NA	NA	<input type="checkbox"/>
Kitchen1MUA Perimeter_top_ZN_3	Perimeter_top_ZN_3 Thermal Zone	Uncontrolled	NA	NA	3374	NA	0.00	NA	NA	NA	<input type="checkbox"/>
Kitchen2MUA Perimeter_top_ZN_4	Perimeter_top_ZN_4 Thermal Zone	Uncontrolled	NA	NA	4000	NA	0.00	NA	NA	NA	<input type="checkbox"/>

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H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

I. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

I1. DHW EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	10	11
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition
WaterHeater1	Gas	Storage	1	326.69	406	Thrm. Eff.: 0.80	NA	SBLF: 0.010	NA	NA

I2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

I3. SOLAR HOT WATER HEATING SUMMARY

This Section Does Not Apply

DEBUG

\$showM: 29 \$showM1: 1 \$showM2: 25 \$showM3: 0 \$showM4: 3 CompType = NewComplete

J. COVERED PROCESS SUMMARY

J1. ENCLOSED PARKING GARAGES

1	2	3	4	5
Garage Exhaust System Name	Design Exhaust Flow Rate (cfm)	Minimum Exhaust Flow Rate (cfm)	Fan Power (Watts)	CO Control Yes/No
PrkgGarVent System	57,529	11,506	11.255	Yes

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J2. COMMERCIAL KITCHENS				
1	2	3	4	5
Space Name	Exhaust Hood Style	Exhaust Hood Duty	Exhaust Length (ft)	Exhaust Flow Rate (cfm)
Perimeter_top_ZN_3	BackshelfOrPassover	Light	5	1,050
	WallMountedCanopy	Light	5	700
	None	Light		
		Light		
		Light		
Perimeter_top_ZN_4	Eyebrow	Light	10	1,750
	SingleIsland	Heavy	10	4,200
	None	Light		
		Light		
		Light		

J3. COMPUTER ROOMS
This Section Does Not Apply

J4. LABORATORY/PROCESS EXHAUST					
1	2	3	4	5	5
Space Name	Design Exhaust Flow Rate (cfm)	Minimum Exhaust Flow Rate (cfm)	Total Fume Hood Length (ft)	Exhaust Flow for Fume Hoods with Vertical Sashes (cfm)	Fraction of Fume Hoods with Vertical Sash with automatic control (%)
Core_hi	27257.6	16359.4	109		0
Perimeter_hi_ZN_1	3373.61	2024.76	13		0
Perimeter_hi_ZN_2	2174.05	1304.81	8		0

K. INDOOR LIGHTING SUMMARY

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K1. INDOOR CONDITIONED LIGHTING GENERAL INFO							
						Confirmed	
1	2	3	4	5		Pass	Fail
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance		<input type="checkbox"/>	<input type="checkbox"/>
				Area Category Footnotes (Watts)	Tailored Method (Watts)		
Office Area (Open plan office)	202,859	158,231	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Scientific Laboratory Area	65,610	65,610	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Dining Area (Cafeteria/Fast Food)	29,432	11,773	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Corridor Area	3,374	2,024	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Kitchen/Food Preparation Area	5,548	5,270	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Building Totals:	306,823	242,908	0	0	0		

¹ See Table 140.6-C

² See NRCC-LTI-01-E for unconditioned spaces

³ Lighting information for existing spaces modeled is not included in the table

K2. INDOOR CONDITIONED LIGHTING SCHEDULE
This Section Does Not Apply

¹ If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS
This Section Does Not Apply

K4: INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS
This Section Does Not Apply

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

K5. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST	
General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA

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K5. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST	
Additional "use it or lose it" (See Table G)	0
Total watts	0

K6. GENERAL LIGHTING POWER
This Section Does Not Apply

K7. GENERAL LIGHTING FROM SPECIAL FUNCTION AREA								
Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>

Note: Tailored Method for Special Function Areas is not currently implemented

K8. ROOM CAVITY RATIO							
Rectangular Spaces							
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed	
						Pass	Fail
NA	NA	NA	NA	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
Non-Rectangular Spaces							
This Section Does Not Apply							

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

K9. ADDITIONAL “USE IT OR LOSE IT”						
1.	2.	3.	4.	Allowed Watts	Confirmed	
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise		Pass	Fail
0	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>

K10. Wall Display
This Section Does Not Apply

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K11. Floor Display and Task Lighting

This Section Does Not Apply

K12. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

K13. Very Valuable Merchandise

This Section Does Not Apply

Not useable for compliance

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L. 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 must 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	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-ENV-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-MCH-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
Plumbing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-PLB-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-STH-01-E - Must be submitted for solar hot water heating systems	<input type="checkbox"/>	<input type="checkbox"/>
Indoor Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	<input type="checkbox"/>	<input type="checkbox"/>
Covered Process	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-PRC-01-E - Must be submitted for all Covered Processes	<input type="checkbox"/>	<input type="checkbox"/>

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M. 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	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-ENV-02-F - NRFC label verification for fenestration	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	NRCA-ENV-03-F - Daylighting Design PAFs	<input type="checkbox"/>	<input type="checkbox"/>
Indoor Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-03-A - Automatic Daylight Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-04-A - Demand Responsive Lighting Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	<input type="checkbox"/>	<input type="checkbox"/>
Covered Process	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-PRC-02-F - Kitchen Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-PRC-03-F - Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-12-F - Elevator Lighting and Ventilation Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-13-F - Escalator and Moving Walkways Speed Control	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-PRC-14-F - Lab Exhaust Ventilation System	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System	<input type="checkbox"/>	<input type="checkbox"/>

Not useable for compliance

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M. 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	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-03-A Constant Volume Single Zone HVAC	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-05-A Air Economizer Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-07-A Supply Fan Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-08-A Valve Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-MCH-09-A Supply Water Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-10-A Hydronic System Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-11-A Automatic Demand Shed Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-16-A Supply Air Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-18 Energy Management Control Systems	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-MCH-19 Occupancy Sensor Controls	<input type="checkbox"/>	<input type="checkbox"/>

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N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must 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/NRCV/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-MCH-04-H Duct Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-MCH-24-H Enclosure Air Leakage	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCV-MCH-32-H Local Mechanical Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
Plumbing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	<input type="checkbox"/>	<input type="checkbox"/>

Not useable for compliance

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Signature:
Company:	
Address:	Signature Date: 2020-09-04
City/State/Zip:	CEA/ HERS Certification Identification (if applicable):
Phone:	

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 Envelope Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Lighting Designer Name:	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: - specify -	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #: