CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 1 of 23)

Project Name:	Highrise Multi-Family Example	Date Prepared:	2025-09-10

A. General Information					
1	Project Name	Highrise Multi-Family Example			
2	Run Title	Title 24 Analysis			
3	Project Location	7188 Pleasant Way			
4	City	Rocklin	5	Standards Version	Compliance 2025
6	Zip code	95650	7	Compliance Software (version)	EnergyPro 10.0
8	Climate Zone	11	9	Building Orientation (deg)	0
10	Building Type(s)	• High-Rise Residential	11	Weather File	CA_Title24_2025_CZ11_RED-BLUFF.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	25
14	Total Conditioned Floor Area in Scope (ft^2)	16000	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft^2)	0	17	Fuel Type	Natural gas
18	Is Natural Gas Available per Section 100.1?	Yes	19	Nonresidential Conditioned Floor Area	0
20	Total # of Stories (Habitable Above Grade)	4	21	Residential Conditioned Floor Area	16000

B. PROJECT SUMMARY

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 the permit application.

Building Components Complying via Performance						**Building Components Complying Prescriptively**	
Envelope (See Table G)	Nonres	Not Included	Solar Thermal Water Heating (See Table I3)	☒	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).	
	MultiFam	Performance		☐	Not Included		
Mechanical (See Table H)	Nonres	Not Included	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Performance		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Performance		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☒	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Performance		☐	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

C1. COMPLIANCE SUMMARY

DOES NOT COMPLY *

	Long-term System Cost (LSC)[1]		Source Energy Use
	Efficiency[2] ($/ft²-yr)	**Total[3] ($/ft²-yr)**	**Total[3] (kBtu/ft²-yr)**
Standard Design	21.06	2.67	2.64
Proposed Design	30.65	10.23	10.11
Compliance Margins	**-9.59**	**-7.56**	**-7.47**
	Fail	**Fail**	**Fail**

[1] Long-term System Cost (LSC) is a 30-year present value cost to California's energy system. LSC is not a predicted utility bill.

[2] Efficiency measures include energy efficiency improvements such as better building envelope and more efficient mechanical equipment

[3] Totals include the sum of efficiency measures, solar photovoltaic (PV) measures and battery storage measures

** New Construction: Building complies when Proposed Design is equal to or less than Standard Design in all compliance categories and unmet load hour limits are not exceeded. Complete Addition Scope and Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded.*

C2. LSC ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual LSC Energy Use, $/ft^2-yr)

DOES NOT COMPLY

Energy Component	Standard Design (LSC)	Proposed Design (LSC)	Compliance Margin (LSC)[1]
Space Heating	0.19	3.89	-3.7
Space Cooling	6.31	9.75	-3.44
Indoor Fans	3.64	4.32	-0.68
Heat Rejection	0	0	0
Pumps & Misc.	0.21	0.99	-0.78
Domestic Hot Water	10.71	11.7	-0.99
Indoor Lighting	0	0	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**21.06**	**30.65**	**-9.59 (-45.5%)**
Photovoltaics	-17.25	-20.42	3.17
Batteries	-1.14	---	-1.14
TOTAL COMPLIANCE	**2.67**	**10.23**	**-7.56 (-283.1%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

C3. LSC ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (LSC)	Proposed Design (LSC)	Compliance Margin (LSC)[2]
Receptacle	17.38	17.38	---
Process	15.12	14.89	0.23
Other Ltg	2.43	2.43	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**37.6**	**44.93**	**-7.33 (-19.5%)**

[1] Notes: This table is not used for Energy Code Compliance.

[2] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft^2 /yr)

DOES NOT COMPLY

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	0.1	5.72	-5.62
Space Cooling	0.94	1.57	-0.63
Indoor Fans	0.81	0.96	-0.15
Heat Rejection	0	0	0
Pumps & Misc.	0.08	0.21	-0.13
Domestic Hot Water	3.14	3.44	-0.3
Indoor Lighting	0	0	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**5.07**	**11.9**	**-6.83 (-134.7%)**
Photovoltaics	-1.5	-1.79	0.29
Batteries	-0.93	---	-0.93
TOTAL COMPLIANCE	**2.64**	**10.11**	**-7.47 (-283%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[2]
Receptacle	4.6	4.6	---
Process	7.42	7.35	0.07
Other Ltg	0.69	0.69	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**15.35**	**22.75**	**-7.4 (-48.2%)**

[1] Notes: This table is not used for Energy Code Compliance.

[2] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

C7. 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	0.3	---	---	---	101	---
Space Cooling	14.8	28.6	-13.8	---	---	---
Indoor Fans	8.6	10.1	-1.5	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	0.4	2.8	-2.4	---	---	---
Domestic Hot Water	25.1	27.8	-2.7	---	---	---
Indoor Lighting	---	---	---	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**49.2**	**69.3**	**-20.1**	**0**	**101**	**-101**
Photovoltaics	-54	-63.9	9.9	---	---	---
Batteries	0.9	---	---	---	---	---
ENERGY USE SUBTOTAL	**-3.9**	**5.4**	**-9.3**	**0**	**101**	**-101**
Receptacle	40.3	40.3	0	---	---	---
Process	18.9	18.4	0.5	97.7	97.7	0
Other Ltg	5.3	5.3	0	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**60.6**	**69.4**	**-8.8**	**97.7**	**198.7**	**-101**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft^2 / yr)	Proposed Design (kBtu/ft^2 / yr)	Margin (kBtu/ft^2 / yr)	Margin Percentage
GROSS EUI[1]	30.54	40.84	-10.3	-33.73
NET EUI[1]	19.03	27.22	-8.19	-43.04

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

- Verify project meets the requirements for Vestibules as per Section 120.7(e).

D2. MULTIFAMILY REQUIRED SPECIAL FEATURES

- Indoor air quality, balanced fan
- IAQ Ventilation System: supply outside air inlet, filter, and H/ERV cores accessible per RACM Reference Manual
- IAQ Ventilation System: fault indicator display
- Non-standard duct location (any location other than attic)
- Solar water heating credit, multifamily building
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

F1. REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception[1]	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
40		Standard (14-17%)	Fixed	none	false	180	Degrees	22	4.85	96	100

[1]*See Table D1 for any PV exceptions used.*

F1B. PV BATTERY BUILDING TYPE(S)

01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	**Conditioned Floor Area (ft^2)**	**Unconditioned Floor Area (ft^2)**
Events and Exhibits	0	0
Library	0	0
Hotel/Motel	0	0
Office, Financial Institutions, Unleased Tenant Space, Medical Office Building/Clinic	0	0
Restaurants	0	0
Retail, Grocery	0	0
School	0	0
Warehouse	0	0
Religious Worship	0	0
Sports and Recreation	0	0
Multifamily greater than 3 stories	16000	0
None	0	0

**Building Occupancy Types are defined in Section 100.1 of the Energy Code*

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft^2)**	**Total Fenestration Area (ft^2)**	**Window to Wall Ratio (%)**
North-Facing[1]	3200	800	25
East-Facing[2]	1280	112	8.75
South-Facing[3]	3200	720	22.5

Notes

[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),

[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),

[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),

[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft^2)**	**Total Fenestration Area (ft^2)**	**Window to Wall Ratio (%)**
West-Facing[4]	1280	128	10
Total	**8960**	**1760**	**19.64**
Roof	0	0	0

Notes

[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),

[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),

[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),

[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

G2B. ROOFING PRODUCT SUMMARY (MULTIFAMILY AND COMMON AREAS)

01	02	03	04	05	06
Name	**Roof Pitch**	**Roof Rise (x in 12)**	**Aged Solar Reflectance**	**Thermal Emittance**	**SRI**
Attic S-2-2nd Floor Apts	Low slope	0	0.1	0.85	N/A
Attic S-3-3rd Floor Apts	Low slope	0	0.1	0.85	N/A
Attic S-4-4th Floor Apts	Low slope	0	0.1	0.85	N/A

G3. ATTIC

01	02	03	04
Name	**Construction**	**Type**	**Radiant Barrier**
Attic S-2-2nd Floor Apts	Roof-Attic S-2-2nd Floor Apts	Ventilated	No
Attic S-3-3rd Floor Apts	Roof-Attic S-3-3rd Floor Apts	Ventilated	No
Attic S-4-4th Floor Apts	Roof-Attic S-4-4th Floor Apts	Ventilated	Yes

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	**Construction Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**		**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
					Interior	**Exterior**				
R-15 Wall w/R-44	Exterior Wall	8,960	Wood	15	N/A	4.17	U-factor	0.0635	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Expanded Polystyrene - EPS - 1 in. R4.2 Composite-1 Gypsum Board - 1/2 in.	N
Default Roof Prior to 197	Ceilings (below attic)	8,000	Wood Framed Ceiling	11	0	0	U-factor	0.0827	Over Ceiling Joists: R-1.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board	N
R-0 Floor No Crawlspace	Interior Floors	12,000	Wood Framed Floor	0	0	0	U-factor	0.1957	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 Ceiling Below Finish: Gypsum Board	N
R-30 Roof Attic	Ceilings (below attic)	4,000	Wood Framed Ceiling	30	0	0	U-factor	0.0317	Over Ceiling Joists: R-20.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board	N
Roof-Attic S-2-2nd Floor Apts	Attic Roofs	4,000	Wood Framed Ceiling	0	0	0	U-factor	0.6436	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	N
Roof-Attic S-3-3rd Floor Apts	Attic Roofs	4,000	Wood Framed Ceiling	0	0	0	U-factor	0.6436	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	N

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

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft^2)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
Roof-Attic S-4-4th Floor Apts	Attic Roofs	4,000	Wood Framed Ceiling	0	0	0	U-factor	0.6436	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	N

[1] *Status: N - New, A - Altered, E - Existing*

G6B. OPAQUE DOOR SUMMARY (MULTIFAMILY AND COMMON AREAS)

01	02	03	04
Name	Area (ft^2)	Overall U-factor	Status[1]
Entry Door	100	0.5	N
Door	100	0.5	N
Door 2	100	0.5	N
Door 3	100	0.5	N

[1] *Status: N - New, A - Altered, E - Existing*

G7B. FENESTRATION SUMMARY (MULTIFAMILY AND COMMON AREAS)

01	02	03	04	05	06	07	08	09	10	11	12	13
Fenestration Name	Fenestration Type/ Product Type / Frame Type	Parent Surface	Azimuth	Multiplier	Area (ft^2)	Overall U-factor	U-factor Source	Overall SHGC	SHGC Source	Overall VT	Exterior Shading	Status[1]
Front Windows	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Front Wall	0	1	200	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Left Windows	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Left Wall	90	1	40	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Back Windows	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Back Wall	180	1	180	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Right Windows	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Right Wall	270	1	32	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Front Windows 2	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Front Wall 2	0	1	200	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Left Windows 2	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Left Wall 2	90	1	24	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Back Windows 2	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Back Wall 2	180	1	180	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N

[1] *Status: N - New, A - Altered, E - Existing*

G7B. FENESTRATION SUMMARY (MULTIFAMILY AND COMMON AREAS)

01	02	03	04	05	06	07	08	09	10	11	12	13
Fenestration Name	Fenestration Type/ Product Type / Frame Type	Parent Surface	Azimuth	Multiplier	Area (ft^2)	Overall U-factor	U-factor Source	Overall SHGC	SHGC Source	Overall VT	Exterior Shading	Status[1]
Right Windows 2	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Right Wall 2	270	1	32	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Front Windows 3	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Front Wall 3	0	1	200	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Left Windows 3	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Left Wall 3	90	1	24	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Back Windows 3	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Back Wall 3	180	1	180	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Right Windows 3	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Right Wall 3	270	1	32	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Front Windows 4	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Front Wall 4	0	1	200	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Left Windows 4	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Left Wall 4	90	1	24	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N

[1] *Status: N - New, A - Altered, E - Existing*

G7B. FENESTRATION SUMMARY (MULTIFAMILY AND COMMON AREAS)

01	02	03	04	05	06	07	08	09	10	11	12	13
Fenestration Name	**Fenestration Type/ Product Type / Frame Type**	**Parent Surface**	**Azimuth**	**Multiplier**	**Area (ft^2)**	**Overall U-factor**	**U-factor Source**	**Overall SHGC**	**SHGC Source**	**Overall VT**	**Exterior Shading**	**Status[1]**
Back Windows 4	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Back Wall 4	180	1	180	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N
Right Windows 4	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Right Wall 4	270	1	32	0.32	NFRC	0.24	NFRC	N/A	Standard bug screens	N

[1] *Status: N - New, A - Altered, E - Existing*

H3a. MULTIFAMILY / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05
Name	**Type**	**Power**	**Power Units**	**Status**
HVAC Fan 1	Fixed speed	0.45	W/cfm	N/A
HVAC Fan 3	Fixed speed	0.45	W/cfm	N/A
HVAC Fan 5	Fixed speed	0.45	W/cfm	N/A
HVAC Fan 7	Fixed speed	0.45	W/cfm	N/A

H4. MULTIFAMILY HVAC DISTRIBUTION

01	02	03	04	05	06	07	08
Name	Type	Duct Ins. R-value Supply	Duct Ins. R-value Return	Duct Location Supply	Duct Location Return	Verified Duct Design Surface Area	
						Supply	Return
Air Distribution System 1	Conditioned space-entirely (Non-Verified)	R-8	R-8	Conditioned Zone	Conditioned Zone	n/a	n/a
Air Distribution System 3	Conditioned space-entirely (Non-Verified)	R-8	R-8	Conditioned Zone	Conditioned Zone	n/a	n/a
Air Distribution System 5	Conditioned space-entirely (Non-Verified)	R-8	R-8	Conditioned Zone	Conditioned Zone	n/a	n/a
Air Distribution System 7	Conditioned space-entirely (Non-Verified)	R-8	R-8	Conditioned Zone	Conditioned Zone	n/a	n/a

H10. MULTIFAMILY DWELLING UNIT TYPE CENTRAL / INDIVIDUAL VENTILATION

01	02	03	04	05	06	07	08	09	10	11	12	13
Dwelling Unit Type	IAQ Option	Central Fan (If applicable)					Individual Fan (if applicable)					
		IAQ Fan Type Type	Supply Airflow CFM	Supply Fan Efficacy W/CFM	Exhaust CFM	Exhaust Fan Efficacy W/CFM	IAQ Fan Type	Count	Airflow CFM	Fan Efficacy W/CFM	Recovery Efficiency SRE	Recovery Efficiency ASRE
DU-1 3BR	Default Minimum Balanced IAQ Fan	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	N/A	N/A	N/A
DU-2 3BR	Default Minimum Balanced IAQ Fan	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	N/A	N/A	N/A
DU-3 3BR	Default Minimum Balanced IAQ Fan	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	N/A	N/A	N/A
DU-4 Studio	Default Minimum Balanced IAQ Fan	N/A	N/A	N/A	N/A	N/A	N/A	N/A	27	N/A	N/A	N/A

I1. WATER HEATER EQUIPMENT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	**Heater Element Type**	**Tank Type**	**Qty**	**Tank Vol (gal)**	**Rated Input**	**Rated Input Unit**	**Efficiency**	**Efficiency Unit**	**Tank Insulation R-value Int/Ext**	**Standby Loss Fraction**	**1st Hr. Rating or Flow Rate (gal)**	**Heat Pump Type**	**Tank Location or Ambient Condition**
DHW Heater 0	Heat Pump	Storage	12	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Residential (NEEA RATED) PRODUCT	Outside
DHW Heater 0-2	Electricity	Instantaneous	12	1	12	kW	0.98	UEF	N/A	N/A	8	N/A	N/A

I2. MULTI-FAMILY WATER HEATING SYSTEM DETAIL

01	02	03	04	05	06	07	08
System Name	**Configuration**	**Type**	**Qty in System**	**Dwelling Unit Distribution Type**	**Water Heater Name**	**Solar Heating System**	**Is Compact Distribution**
MF0-A. O. Smith FPTU 50 1203	Domestic Hot Water (DHW)	Unitary	2	Standard Distribution System	DHW Heater 0	Solar-DHW	Yes

I6. SOLAR HOT WATER HEATING SUMMARY

01	02	03	04	05	06	07	08	09
System Name	**Collector**							
	Manufacturer	**Brand**	**Model**	**Count**	**Area (ft^2)**	**Solar Savings Fraction**	**Azimuth from N (deg)**	**Tilt from Horz. (deg)**
Solar-DHW	Acevedo Solar Systems LLC	International Solar System	042012	10	18	N/A	45	20

10	11	12	13
Name of program used	**Program Version**	**Tank Volume (gal)**	**Tank Volume (gal)**
CSE	CSE 0.926.0 EXE	300	25

I8. WATER HEATING - DRAIN WATER HEAT RECOVERY

01	02	03	04	05
Dwelling Unit Type	**DHW System and DWHR Names**	**Installation Configuration**	**Shower Drains**	**ECC Verification**
DU-1 3BR	MF0-A. O. Smith FPTU 50 1203 - 1 - DWHR-1	Equal Flow	1	Required

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.12(c)	**Shut-Off Controls 130.1(c) & 160.5(b)4C**
Required	**Required**

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

03	04	05	06	07	08	09
Area Description	**Area Category Primary Function Area**	**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 Daylighting 130.1(d) & 160.5(b)4D**	**Secondary Daylighting 140.5(d) & 160.5(b)4D**
Whole Building	All Other Space Types	Required	Required	Required	Required	Required

L. DWELLING UNIT INFORMATION

01	02	03	04
Dwelling Unit Name	**Dwelling Unit Type**	**Zone**	**Zone Group Multiplier**
DDU-1 3BR-(1/5)	DU-1 3BR	S-1-1st Floor Apts	1
DDU-1 3BR-(2/5)	DU-1 3BR	S-1-1st Floor Apts	1
DDU-1 3BR-(3/5)	DU-1 3BR	S-1-1st Floor Apts	1
DDU-1 3BR-(4/5)	DU-1 3BR	S-1-1st Floor Apts	1
DDU-1 3BR-(5/5)	DU-1 3BR	S-1-1st Floor Apts	1
DDU-2 3BR-(1/5)	DU-2 3BR	S-2-2nd Floor Apts	1
DDU-2 3BR-(2/5)	DU-2 3BR	S-2-2nd Floor Apts	1
DDU-2 3BR-(3/5)	DU-2 3BR	S-2-2nd Floor Apts	1
DDU-2 3BR-(4/5)	DU-2 3BR	S-2-2nd Floor Apts	1
DDU-2 3BR-(5/5)	DU-2 3BR	S-2-2nd Floor Apts	1
DDU-3 3BR-(1/5)	DU-3 3BR	S-3-3rd Floor Apts	1
DDU-3 3BR-(2/5)	DU-3 3BR	S-3-3rd Floor Apts	1
DDU-3 3BR-(3/5)	DU-3 3BR	S-3-3rd Floor Apts	1
DDU-3 3BR-(4/5)	DU-3 3BR	S-3-3rd Floor Apts	1
DDU-3 3BR-(5/5)	DU-3 3BR	S-3-3rd Floor Apts	1
DDU-4 Studio-(1/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(2/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(3/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(4/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(5/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(6/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(7/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(8/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(9/10)	DU-4 Studio	S-4-4th Floor Apts	1
DDU-4 Studio-(10/10)	DU-4 Studio	S-4-4th Floor Apts	1

M. DWELLING UNIT TYPES

01	02	03	04	05	06	07
Name	CFA (ft^2)	Number of Bedrooms	Number in Building	Space Conditioning Systems Assigned	DHW System Name	IAQ Vent Fan Name
DU-1 3BR	800	3	5	DU-1 3BR | :FPFC2:Air Distribution System 1:HVAC Fan 1:4:3	MF0-A. O. Smith FPTU 50 1203	Default Minimum Balanced IAQ Fan
DU-2 3BR	800	3	5	DU-2 3BR | :FPFC4:Air Distribution System 3:HVAC Fan 3:4:3	MF0-A. O. Smith FPTU 50 1203	Default Minimum Balanced IAQ Fan
DU-3 3BR	800	3	5	DU-3 3BR | :FPFC6:Air Distribution System 5:HVAC Fan 5:4:3	MF0-A. O. Smith FPTU 50 1203	Default Minimum Balanced IAQ Fan
DU-4 Studio	400	0	10	DU-4 Studio | :FPFC8:Air Distribution System 7:HVAC Fan 7:4:3	MF0-A. O. Smith FPTU 50 1203	Default Minimum Balanced IAQ Fan

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author 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

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems
	NRCI-SAB-E - Solar Water Heating, PV and Battery Storage Systems
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author 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).

Building Component	Form/Title & System Name(s)
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.
Indoor Lighting	NRCA-LTI-04-A - Demand Responsive Lighting Controls.
Mechanical	NRCA-MCH-08-A Valve Leakage Test
	Boiler/Chiller w/Multiple1 - ChillSys
Mechanical	NRCA-MCH-09-A Supply Water Temperature Reset Controls
	Boiler/Chiller w/Multiple1 - ChillSys
Mechanical	NRCA-MCH-10-A Hydronic System Variable Flow Controls
	Boiler/Chiller w/Multiple1 - ChillSys

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author 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

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust
Plumbing	NRCV-PLB-22-H ECC verified single dweliing unit systems in high-rise residential, hotel/motel application

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Company: EnergySoft	Signature Date:
Address:	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip: ,	Phone:

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State 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 understand that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building and shall be made available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill this requirement.
6. 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. I will take the necessary steps to fulfill this requirement.

Responsible Designer Name: Bernard Parker & Assoc.	Responsible Designer Signature:	
Company:		
Address: 573 Oak Drive	Date Signed:	
City/State/Zip: Sacramento, CA 95000	License #:	
Phone:	Title:	Scope: