

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: 2023-08-11

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 2022
6	Zip code	95650	7	Compliance Software (version)	EnergyPro 9.1
8	Climate Zone	11	9	Building Orientation (deg)	0
10	Building Type(s)	• High-Rise Residential	11	Weather File	AUBURN_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	25
14	Total Conditioned Floor Area in Scope (ft²)	16000	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	0	19	Total # of Stories (Habitable Above Grade)	4
20	Residential Conditioned Floor Area	16000			

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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)	<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).	
	MultiFam	Performance		<input type="checkbox"/>	Not Included		
Mechanical (See Table H)	Nonres	Not Included	Covered Process: Commercial Kitchens (see Table J)	<input type="checkbox"/>	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Performance		<input checked="" type="checkbox"/>	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)	<input type="checkbox"/>	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Performance		<input checked="" type="checkbox"/>	Not Included	<b>Building Components Complying with Mandatory Measures</b>	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	<input checked="" type="checkbox"/>	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		<input type="checkbox"/>	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	<input type="checkbox"/>	Performance	Commissioning 120.8	NRCC-CXR-E is required
				<input checked="" type="checkbox"/>	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

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C1. COMPLIANCE SUMMARY			
DOES NOT COMPLY <sup>3</sup>			
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency <sup>1</sup> (kBtu/ft <sup>2</sup> - yr)	Total <sup>2</sup> (kBtu/ft <sup>2</sup> - yr)	Total <sup>2</sup> (kBtu/ft <sup>2</sup> - yr)
Standard Design	88.05	8.71	3.03
Proposed Design	137.86	56.96	3.03
Compliance Margins	-49.81	-48.25	-7.88
	Fail	Fail	Fail
<sup>1</sup> Efficiency measures include improvements like a better building envelope and more efficient equipment <sup>2</sup> Compliance Totals include efficiency, photovoltaics and batteries <sup>3</sup> New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded 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			

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<b>C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft<sup>2</sup> - yr)</b>			
<b>DOES NOT COMPLY<sup>2</sup></b>			
<b>Energy Component</b>	<b>Standard Design (TDV)</b>	<b>Proposed Design (TDV)</b>	<b>Compliance Margin (TDV)<sup>1</sup></b>
Space Heating	0.19	14.49	-14.3
Space Cooling	29.8	72.05	-42.25
Indoor Fans	15.96	18.98	-3.02
Heat Rejection	0	0	0
Pumps & Misc.	0.59	5.51	-4.92
Domestic Hot Water	41.51	26.83	14.68
Indoor Lighting	0	0	0
Flexibility	---	---	---
<b>EFFICIENCY COMPLIANCE TOTAL</b>	<b>88.05</b>	<b>137.86</b>	<b>-49.81 (-56.6%)</b>
Photovoltaics	-67.81	-80.9	13.09
Batteries	-11.53	---	-11.53
<b>TOTAL COMPLIANCE</b>	<b>8.71</b>	<b>56.96</b>	<b>-48.25 (-554%)</b>
<sup>1</sup> Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.			

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<b>C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS<sup>1</sup></b>			
<b>Non-Regulated Energy Component</b>	<b>Standard Design (TDV)</b>	<b>Proposed Design (TDV)</b>	<b>Compliance Margin (TDV)<sup>1</sup></b>
Receptacle	70.72	70.72	---
Process	42.48	41.52	0.96
Other Ltg	10.25	10.25	---
Process Motors	---	---	---
<b>TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)</b>	<b>132.16</b>	<b>179.45</b>	<b>-47.29 (-35.8%)</b>
<sup>1</sup> Notes: This table is not used for Energy Code Compliance.			

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C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft <sup>2</sup> /yr)			
DOES NOT COMPLY <sup>2</sup>			
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) <sup>1</sup>
Space Heating	0.03	4.78	-4.75
Space Cooling	1.46	3.85	-2.39
Indoor Fans	1.24	1.4	-0.16
Heat Rejection	0	0	0
Pumps & Misc.	0.07	0.47	-0.4
Domestic Hot Water	3.88	2.66	1.22
Indoor Lighting	0	0	0
Flexibility	---	---	---
<b>EFFICIENCY COMPLIANCE TOTAL</b>	<b>6.68</b>	<b>13.16</b>	<b>-6.48 (-97%)</b>
Photovoltaics	-1.92	-2.25	0.33
Batteries	-1.73	---	-1.73
<b>TOTAL COMPLIANCE</b>	<b>3.03</b>	<b>10.91</b>	<b>-7.88 (-260.1%)</b>
<sup>1</sup> Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.			

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<b>C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS<sup>1</sup></b>			
<b>Non-Regulated Energy Component</b>	<b>Standard Design (SOURCE)</b>	<b>Proposed Design (SOURCE)</b>	<b>Compliance Margin (SOURCE)<sup>1</sup></b>
Receptacle	6.77	6.77	---
Process	5.57	5.46	0.11
Other Ltg	1.03	1.03	---
Process Motors	---	---	---
<b>TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)</b>	<b>16.4</b>	<b>24.17</b>	<b>-7.77 (-47.4%)</b>
<sup>1</sup> Notes: This table is not used for Energy Code Compliance.			

<b>C6. 'ABOVE CODE' QUALIFICATIONS</b>	
<input type="checkbox"/> This project is pursuing CalGreen Tier 1	<input type="checkbox"/> This project is pursuing CalGreen Tier 2

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<b>C7. ENERGY USE SUMMARY</b>						
<b>Energy Component</b>	<b>Standard Design Site (MWh)</b>	<b>Proposed Design Site (MWh)</b>	<b>Margin (MWh)</b>	<b>Standard Design Site (MBtu)</b>	<b>Proposed Design Site (MBtu)</b>	<b>Margin (MBtu)</b>
Space Heating	0.1	---	---	---	82.1	---
Space Cooling	10.8	24.4	-13.6	---	---	---
Indoor Fans	8.2	9.2	-1	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	0.3	2.5	-2.2	---	---	---
Domestic Hot Water	24.9	16.4	8.5	---	---	---
Indoor Lighting	---	---	---	---	---	---
Flexibility	---	---	---	---	---	---
<b>EFFICIENCY TOTAL</b>	<b>44.3</b>	<b>52.5</b>	<b>-8.2</b>	<b>0</b>	<b>82.1</b>	<b>-82.1</b>
Photovoltaics	-55.3	-65.2	9.9	---	---	---
Batteries	0.9	---	---	---	---	---
<b>ENERGY USE SUBTOTAL</b>	<b>-10.1</b>	<b>-12.7</b>	<b>2.6</b>	<b>0</b>	<b>82.1</b>	<b>-82.1</b>
Receptacle	40.3	40.3	0	---	---	---
Process	18.3	17.6	0.7	51.8	51.8	0
Other Ltg	5.3	5.3	0	---	---	---
Process Motors	---	---	---	---	---	---
<b>ENERGY USE TOTAL</b>	<b>53.8</b>	<b>50.5</b>	<b>3.3</b>	<b>51.8</b>	<b>133.9</b>	<b>-82.1</b>



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<b>C8. ENERGY USE INTENSITY (EUI)</b>				
	<b>Standard Design (kBtu/ft<sup>2</sup> / yr)</b>	<b>Proposed Design (kBtu/ft<sup>2</sup> / yr)</b>	<b>Margin (kBtu/ft<sup>2</sup> / yr)</b>	<b>Margin Percentage</b>
GROSS EUI <sup>1</sup>	26.5	33.04	-6.54	-24.68
NET EUI <sup>1</sup>	14.71	19.14	-4.43	-30.12
<sup>1</sup> Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.				

<b>D2. MULTIFAMILY REQUIRED SPECIAL FEATURES</b>
<ul style="list-style-type: none"> <li>Indoor air quality, balanced fan</li> <li>Non-standard duct location (any location other than attic)</li> <li>Solar water heating credit, multifamily building</li> <li>Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed</li> </ul>
<b>E1. HERS VERIFICATION SUMMARY</b>
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry.
<p>Building-level Verifications:</p> <ul style="list-style-type: none"> <li>Indoor air quality ventilation</li> <li>Kitchen range hood</li> </ul> <p>Cooling System Verifications:</p> <ul style="list-style-type: none"> <li>-- None --</li> </ul> <p>Heating System Verifications:</p> <ul style="list-style-type: none"> <li>-- None --</li> </ul> <p>HVAC Distribution System Verifications:</p> <ul style="list-style-type: none"> <li>-- None --</li> </ul> <p>Domestic Hot Water System Verifications:</p> <ul style="list-style-type: none"> <li>Compact distribution system expanded credit</li> <li>Multifamily: Drain water heat recovery system</li> </ul>

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<b>F1. REQUIRED PV SYSTEMS</b>											
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception <sup>1</sup>	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
40	n/a	Standard (14-17%)	Fixed	none	false	180	Degrees	22	4.85	96	100
<sup>1</sup> See Table D1 for any PV exceptions used.											

<b>F1B. PV BATTERY BUILDING TYPE(S)</b>		
01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft <sup>2</sup> )	Unconditioned Floor Area (ft <sup>2</sup> )
Grocery	0	0
High-Rise Multifamily	16000	0
Office, Financial Institutions, Unleased Tenant Space	0	0
Retail	0	0
School	0	0
Warehouse	0	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	0	0
None	0	0
*Building Occupancy Types are defined in Section 100.1 of the Energy Code		

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<b>F3. DWELLING UNIT INFORMATION</b>			
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>
<b>Dwelling Unit Name</b>	<b>Dwelling Unit Type</b>	<b>Zone</b>	<b>Zone Group Multiplier</b>
DDU-1-(1/5)	DU-1	S-1-1st Floor Apts	1
DDU-1-(2/5)	DU-1	S-1-1st Floor Apts	1
DDU-1-(3/5)	DU-1	S-1-1st Floor Apts	1
DDU-1-(4/5)	DU-1	S-1-1st Floor Apts	1
DDU-1-(5/5)	DU-1	S-1-1st Floor Apts	1
DDU-2-(1/5)	DU-2	S-2-2nd Floor Apts	1
DDU-2-(2/5)	DU-2	S-2-2nd Floor Apts	1
DDU-2-(3/5)	DU-2	S-2-2nd Floor Apts	1
DDU-2-(4/5)	DU-2	S-2-2nd Floor Apts	1
DDU-2-(5/5)	DU-2	S-2-2nd Floor Apts	1
DDU-3-(1/5)	DU-3	S-3-3rd Floor Apts	1
DDU-3-(2/5)	DU-3	S-3-3rd Floor Apts	1
DDU-3-(3/5)	DU-3	S-3-3rd Floor Apts	1
DDU-3-(4/5)	DU-3	S-3-3rd Floor Apts	1
DDU-3-(5/5)	DU-3	S-3-3rd Floor Apts	1
DDU-4-(1/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(2/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(3/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(4/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(5/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(6/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(7/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(8/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(9/10)	DU-4	S-4-4th Floor Apts	1
DDU-4-(10/10)	DU-4	S-4-4th Floor Apts	1

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<b>F4. DWELLING UNIT TYPES</b>						
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>	<b>07</b>
<b>Name</b>	<b>CFA (ft<sup>2</sup>)</b>	<b>Number of Bedrooms</b>	<b>Number in Building</b>	<b>Space Conditioning Systems Assigned</b>	<b>DHW System Name</b>	<b>IAQ Vent Fan Name</b>
DU-1	800	3	5	DU-1   :FPFC2:Air Distribution System 1:HVAC Fan 1:4:3	MF0-A. O. Smith FPTU 50 1203	Default Minimum Balanced IAQ Fan
DU-2	800	3	5	DU-2   :FPFC4:Air Distribution System 3:HVAC Fan 3:4:3	MF0-A. O. Smith FPTU 50 1203	Default Minimum Balanced IAQ Fan
DU-3	800	3	5	DU-3   :FPFC6:Air Distribution System 5:HVAC Fan 5:4:3	MF0-A. O. Smith FPTU 50 1203	Default Minimum Balanced IAQ Fan
DU-4	400	0	10	DU-4   :FPFC8:Air Distribution System 7:HVAC Fan 7:4:3	MF0-A. O. Smith FPTU 50 1203	Default Minimum Balanced IAQ Fan

<b>G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)</b>			
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>
<b>Opaque Surfaces &amp; Orientation</b>	<b>Total Gross Surface Area (ft<sup>2</sup>)</b>	<b>Total Fenestration Area (ft<sup>2</sup>)</b>	<b>Window to Wall Ratio (%)</b>
North-Facing <sup>1</sup>	3200	800	25
East-Facing <sup>2</sup>	1280	112	8.75
South-Facing <sup>3</sup>	3200	720	22.5
West-Facing <sup>4</sup>	1280	128	10
<b>Total</b>	<b>8960</b>	<b>1760</b>	<b>19.64</b>

**Notes**

<sup>1</sup>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),

<sup>2</sup>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),

<sup>3</sup>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),

<sup>4</sup>West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),

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<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>
<b>Opaque Surfaces &amp; Orientation</b>	<b>Total Gross Surface Area (ft<sup>2</sup>)</b>	<b>Total Fenestration Area (ft<sup>2</sup>)</b>	<b>Window to Wall Ratio (%)</b>
Roof	0	0	0
<b>Notes</b> <sup>1</sup> 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), <sup>2</sup> 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), <sup>3</sup> 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), <sup>4</sup> West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),			

<b>G2B. ROOFING PRODUCT SUMMARY (MULTIFAMILY AND COMMON AREAS)</b>					
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>
<b>Name</b>	<b>Roof Pitch</b>	<b>Roof Rise (x in 12)</b>	<b>Aged Solar Reflectance</b>	<b>Thermal Emittance</b>	<b>SRI</b>
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

<b>G3. ATTIC</b>			
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>
<b>Name</b>	<b>Construction</b>	<b>Type</b>	<b>Radiant Barrier</b>
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

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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 <sup>1</sup>
					Interior	Exterior				
R-15 Wall w/R-4	Exterior Walls	8,960	Wood Framed Wall	15	0	4	U-factor	0.0642	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Sheathing / Insulation: R-4 Sheathing Exterior Finish: 3 Coat Stucco	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
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
<sup>1</sup> Status: N - New, A - Altered, E - Existing										

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G6B. OPAQUE DOOR SUMMARY (MULTIFAMILY AND COMMON AREAS)			
01	02	03	04
Name	Area (ft <sup>2</sup> )	Overall U-factor	Status <sup>1</sup>
Entry Door	100	0.5	N
Door	100	0.5	N
Door 2	100	0.5	N
Door 3	100	0.5	N
<sup>1</sup> Status: N - New, A - Altered, E - Existing			

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<b>G7B. FENESTRATION SUMMARY (MULTIFAMILY AND COMMON AREAS)</b>												
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>	<b>07</b>	<b>08</b>	<b>09</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
<b>Fenestration Name</b>	<b>Fenestration Type/ Product Type / Frame Type</b>	<b>Parent Surface</b>	<b>Azimuth</b>	<b>Multiplier</b>	<b>Area (ft<sup>2</sup>)</b>	<b>Overall U-factor</b>	<b>U-factor Source</b>	<b>Overall SHGC</b>	<b>SHGC Source</b>	<b>Overall VT</b>	<b>Exterior Shading</b>	<b>Status<sup>1</sup></b>
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
<sup>1</sup> Status: N - New, A - Altered, E - Existing												



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<b>G7B. FENESTRATION SUMMARY (MULTIFAMILY AND COMMON AREAS)</b>												
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>	<b>07</b>	<b>08</b>	<b>09</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
<b>Fenestration Name</b>	<b>Fenestration Type/ Product Type / Frame Type</b>	<b>Parent Surface</b>	<b>Azimuth</b>	<b>Multiplier</b>	<b>Area (ft<sup>2</sup>)</b>	<b>Overall U-factor</b>	<b>U-factor Source</b>	<b>Overall SHGC</b>	<b>SHGC Source</b>	<b>Overall VT</b>	<b>Exterior Shading</b>	<b>Status<sup>1</sup></b>
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
<sup>1</sup> Status: N - New, A - Altered, E - Existing												

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<b>G7B. FENESTRATION SUMMARY (MULTIFAMILY AND COMMON AREAS)</b>												
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 <sup>2</sup> )	Overall U-factor	U-factor Source	Overall SHGC	SHGC Source	Overall VT	Exterior Shading	Status <sup>1</sup>
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
<sup>1</sup> Status: N - New, A - Altered, E - Existing												

<b>H3a. MULTIFAMILY / COMMON USE AREA FAN SYSTEMS SUMMARY</b>				
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

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<b>H4. MULTIFAMILY HVAC DISTRIBUTION</b>							
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

<b>H10. MULTIFAMILY DWELLING UNIT TYPE CENTRAL / INDIVIDUAL VENTILATION</b>												
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	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	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	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	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

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11. 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
A. O. Smith FPTU 50 12030	Heat Pump	N/A	1	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Residential (NEEA RATED) PRODUCT	Outside

12. 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	1	Standard Distribution System	A. O. Smith FPTU 50 12030	Solar-DHW	Yes

16. SOLAR HOT WATER HEATING SUMMARY									
01	02	03	04	05	06	07	08	09	
System Name	Collector								
	Manufacturer	Brand	Model	Count	Area (ft <sup>2</sup> )	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		CSE19 0.918.0 EXE		300		25			

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17. WATER HEATING - COMPACT DISTRIBUTION						
01	02	03	04	05	06	07
Dwelling Unit Type	Water Heating System Name	Master Bath distance of furthest fixture to Water Heater (ft)	Kitchen distance of furthest fixture to Water Heater (ft)	Furthest Third furthest fixture to Water Heater (ft)	Compactness Factor	HERS Verification

18. WATER HEATING - DRAIN WATER HEAT RECOVERY				
01	02	03	04	05
Dwelling Unit Type	DHW System and DWHR Names	Installation Configuration	Shower Drains	HERS Verification
DU-1	MFO-A. O. Smith FPTU 50 1203 - 1 - DWHR-1	Equal Flow	1	Required

L. 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-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems
Plumbing	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.
	NRCI-SAB-E - Solar Water Heating, PV and Battery Storage Systems
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings

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<b>M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</b>	
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).	
<b>Building Component</b>	<b>Form/Title</b>
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-04-A - Demand Responsive Lighting Controls.
Mechanical	NRCA-MCH-08-A Valve Leakage Test
Mechanical	NRCA-MCH-09-A Supply Water Temperature Reset Controls
Mechanical	NRCA-MCH-10-A Hydronic System Variable Flow Controls
Mechanical	NRCA-MCH-20-H Multifamily Ventilation

<b>N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION</b>	
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	
<b>Building Component</b>	<b>Form/Title</b>
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust
Plumbing	NRCV-PLB-22-H HERS verified single dwelling unit systems in high-rise residential, hotel/motel application

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#### Documentation Author's Declaration Statement

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

#### Responsible Person's Declaration statement

<b>I certify the following under penalty of perjury, under the laws of the State of California:</b>		
<ol style="list-style-type: none"> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>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)</li> <li>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.</li> <li>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.</li> <li>I understand that a registered 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, and I will take the necessary steps to accomplish this requirement.</li> <li>I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.</li> </ol>		
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: