



2013 Nonresidential - Title 24, Part 6  
**Energy Plans Review Checklist**

**Nonresidential Prescriptive Method  
 1: Overview & General Information**

*New Construction, Addition, and/or Alteration*

*1 of 5 checklists to be completed*

*1: Overview & General Information, 2: Envelope, 3: Lighting*

*4: Mechanical, and 5: Process & Electrical*

Permit Number: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Address: \_\_\_\_\_

Permit Applicant: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Plans Examiner: \_\_\_\_\_  
 Phone: \_\_\_\_\_

**Compliance Scope (Check all that apply and confirm all applicable forms are available)**

Type of forms submitted						
Performance forms (see Nonresidential Performance Method Checklist) / Prescriptive forms supporting performance forms (S) Prescriptive forms for compliance (C)						
Performance and/or Prescriptive Forms	<input type="checkbox"/> Envelope <input type="checkbox"/> PRF-01 C only <input type="checkbox"/> ENV-01 C or S <input type="checkbox"/> ENV-02 C or S <input type="checkbox"/> ENV-03 C or S <input type="checkbox"/> ENV-04 C or S <input type="checkbox"/> ENV-05 C or S <input type="checkbox"/> ENV-06 C or S	<input type="checkbox"/> Mechanical <input type="checkbox"/> PRF-01 C only <input type="checkbox"/> MECH-01 C or S <input type="checkbox"/> MECH-02 C or S <input type="checkbox"/> MECH-03 C or S <input type="checkbox"/> MECH-04 C or S <input type="checkbox"/> MECH-05 C or S <input type="checkbox"/> MECH-06 C or S	<input type="checkbox"/> Lighting-Indoor <input type="checkbox"/> PRF-01 C only <input type="checkbox"/> LTI-01 C or S <input type="checkbox"/> LTI-02 C or S <input type="checkbox"/> LTI-03 C or S <input type="checkbox"/> LTI-04 C or S <input type="checkbox"/> LTI-05 C or S	<input type="checkbox"/> Lighting -Outdoor <input type="checkbox"/> LTO-01 <input type="checkbox"/> LTO-02 <input type="checkbox"/> LTO-03	<input type="checkbox"/> Lighting-Sign <input type="checkbox"/> LTS-01	<b>C = Prescriptive forms submitted for compliance</b>  <b>S = Prescriptive forms submitted as support to a PRF-01</b>
	<input type="checkbox"/> Commissioning <input type="checkbox"/> CXR-01 <input type="checkbox"/> CXR-02 <input type="checkbox"/> CXR-03 <input type="checkbox"/> CXR-04 <input type="checkbox"/> CXR-05	<input type="checkbox"/> Electrical <input type="checkbox"/> ELC-01	<input type="checkbox"/> Plumbing <input type="checkbox"/> PLB-01	<input type="checkbox"/> Process <input type="checkbox"/> PRC-01 <input type="checkbox"/> PRC-02 <input type="checkbox"/> PRC-03 <input type="checkbox"/> PRC-04 <input type="checkbox"/> PRC-05 <input type="checkbox"/> PRC-06 <input type="checkbox"/> PRC-07 <input type="checkbox"/> PRC-08 <input type="checkbox"/> PRC-09 <input type="checkbox"/> PRC-10 <input type="checkbox"/> PRC-11	<input type="checkbox"/> Solar Ready Area <input type="checkbox"/> SRA-01 <input type="checkbox"/> SRA-02	

Are the following NRCC inputs confirmed on the plans?		Project Notes (PE can use this section to record project data, as needed)		YES	NO*
Have multiple Certificates of Compliance (NRCC) been submitted as part of this permit				<input type="checkbox"/>	<input type="checkbox"/>
Are all NRCC documents filed on the plans?				<input type="checkbox"/>	<input type="checkbox"/>
Are all NRCC documents signed and dated by the:				<input type="checkbox"/>	<input type="checkbox"/>
Responsible building designers or owner?		<i>Electronic signature for registered documents / wet signed for other</i>		<input type="checkbox"/>	<input type="checkbox"/>
Documentation author?		<i>Electronic signature always allowed</i>		<input type="checkbox"/>	<input type="checkbox"/>
Is HERS verification required?				<input type="checkbox"/>	<input type="checkbox"/>
If HERS verification is required, has the NRCC been registered with a HERS provider?				<input type="checkbox"/>	<input type="checkbox"/>
Climate zone	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16			<input type="checkbox"/>	<input type="checkbox"/>
Orientation	North / East / South / West / Azimuth			<input type="checkbox"/>	<input type="checkbox"/>
Construction type	New Construction and/or Addition and/or Alteration			<input type="checkbox"/>	<input type="checkbox"/>
Building type	Nonresidential / High-rise residential / Hotel-motel guest room / Public school / Relocatable public school building / Skylight area for large enclosed spaces ≥5000 ft <sup>2</sup>			<input type="checkbox"/>	<input type="checkbox"/>

*\* Items marked "no" must be corrected*

Permit Number:

Are the following NRCC inputs confirmed on the plans? <i>continued</i>		YES	NO*
Total conditioned floor area (ft <sup>2</sup> )		<input type="checkbox"/>	<input type="checkbox"/>
Existing building (ft <sup>2</sup> )		<input type="checkbox"/>	<input type="checkbox"/>
Addition (ft <sup>2</sup> )		<input type="checkbox"/>	<input type="checkbox"/>
Total unconditioned floor area (ft <sup>2</sup> )		<input type="checkbox"/>	<input type="checkbox"/>
Existing building (ft <sup>2</sup> )		<input type="checkbox"/>	<input type="checkbox"/>
Addition (ft <sup>2</sup> )		<input type="checkbox"/>	<input type="checkbox"/>
Number of dwelling units		<input type="checkbox"/>	<input type="checkbox"/>
Number of stories		<input type="checkbox"/>	<input type="checkbox"/>

*\* Items marked "no" must be corrected*

Additional Notes: \_\_\_\_\_

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Permit Number: \_\_\_\_\_

<b>NRCC-ENV-01</b>		<b>Standards</b>	<b>Project Notes</b>	
Are the following NRCC inputs confirmed on the plans?		Section #	(PE can use this section to record project data, as needed) YES NO*	
Building type			Nonresidential / High-rise residential / Hotel-motel guestroom / Public school / Relocatable public school building <input type="checkbox"/> <input type="checkbox"/>	
Report type			Conditioned / Unconditioned / Skylight area for large enclosed spaces $\geq 5000 \text{ ft}^2$ <input type="checkbox"/> <input type="checkbox"/>	
Roof: Framing type, insulation values, U-factor	Table 140.3-B §110.8(f)		<input type="checkbox"/> <input type="checkbox"/>	
Cool roof: See compliance document <b>NRCC-ENV-03</b> for SRI calculation	§140.3(a) 1A	Rise:      Reflectance:      Emittance:	<input type="checkbox"/> <input type="checkbox"/>	
Wall: Framing type, insulation values, U-factor Demising wall cavity insulation	Table 140.3-B §110.8(f)		<input type="checkbox"/> <input type="checkbox"/>	
	§110.8(f)		<input type="checkbox"/> <input type="checkbox"/>	
Floor: Framing type, insulation values, U-factor	Table 140.3-B §140.3(a)4		<input type="checkbox"/> <input type="checkbox"/>	
Heated slab insulation	§110.8(g)		<input type="checkbox"/> <input type="checkbox"/>	
Air barrier: Continuous air permeance not exceeding 0.004 cfm/ft <sup>2</sup>	Table 140.3-A		<input type="checkbox"/> <input type="checkbox"/>	
Fenestration: See section <b>NRCC-ENV-02</b> below Label Condition status		NFRC / Default / COG	<input type="checkbox"/> <input type="checkbox"/>	
		New / Existing / Altered	<input type="checkbox"/> <input type="checkbox"/>	

**NRCC-ENV-02: Fenestration Worksheet**

Area by orientation (ft <sup>2</sup> )			<input type="checkbox"/> <input type="checkbox"/>	
Proposed same or better than allowed: U-factor (R)SHGC Visual transmittance (VT)	Table 140.3-B	See compliance document <b>NRCC-ENV-06</b> for area weighted average	<input type="checkbox"/> <input type="checkbox"/>	
Overhang dimensions (if applicable)			<input type="checkbox"/> <input type="checkbox"/>	
West window area: proposed $\leq$ allowed	Table 140.3-B		<input type="checkbox"/> <input type="checkbox"/>	
Non-west window area: proposed $\leq$ allowed	§140.3(a)5A		<input type="checkbox"/> <input type="checkbox"/>	
Skylight area: proposed $\leq$ allowed	Table 140.3-B §140.3(a)6A		<input type="checkbox"/> <input type="checkbox"/>	

**NRCC-ENV-04: Daylit Zone Worksheet** Skylight Area for Large Enclosed Spaces  $\geq 5000 \text{ ft}^2$

Daylit zones on floor plans	§130.1(d)1		<input type="checkbox"/> <input type="checkbox"/>	
Total floor area and minimum daylit zone area			<input type="checkbox"/> <input type="checkbox"/>	
Proposed daylit area $\geq$ minimum daylit area			<input type="checkbox"/> <input type="checkbox"/>	

*\* Items marked "no" must be corrected*



Permit Number: \_\_\_\_\_

<b>NRCC-LTI-01 (Indoor)</b>		<b>Standards</b>	<b>Project Notes</b>	<b>YES</b>	<b>NO*</b>
Are the following NRCC inputs confirmed on the plans?		Section #	(PE can use this section to record project data, as needed)		
<i>Building type</i>			Nonresidential / High-rise residential / Hotel-motel guestroom / Public school / Relocatable public school building	<input type="checkbox"/>	<input type="checkbox"/>
<i>Report type</i>			Conditioned / Unconditioned / Both	<input type="checkbox"/>	<input type="checkbox"/>
<i>Construction type</i>			New construction / Addition / Alteration	<input type="checkbox"/>	<input type="checkbox"/>
<i>Method of compliance</i>			Complete building / Area category / Tailored	<input type="checkbox"/>	<input type="checkbox"/>
Summary of allowed lighting power:				<input type="checkbox"/>	<input type="checkbox"/>
Verify total installed watts				<input type="checkbox"/>	<input type="checkbox"/>
Verify adjusted installed lighting power				<input type="checkbox"/>	<input type="checkbox"/>
Verify allowed lighting power			See Section <b>NRCC-LTI-03: Lighting Power Allowance below</b>	<input type="checkbox"/>	<input type="checkbox"/>
Adjusted installed lighting ≤ allowed lighting power				<input type="checkbox"/>	<input type="checkbox"/>
Required Certificates of Installation and Acceptance match scope of work				<input type="checkbox"/>	<input type="checkbox"/>
Portable luminaires in offices:				<input type="checkbox"/>	<input type="checkbox"/>
Verify installed lighting ≤ allowed lighting power				<input type="checkbox"/>	<input type="checkbox"/>
Verify light fixtures EXEMPT from lighting power calculations	§140.6(a)3			<input type="checkbox"/>	<input type="checkbox"/>
<b>NRCC-LTI-02-E Lighting Controls</b>					
<i>Space type being reported</i>			Conditioned / Unconditioned	<input type="checkbox"/>	<input type="checkbox"/>
Mandatory lighting controls scheduled match scope of project.				<input type="checkbox"/>	<input type="checkbox"/>
Lighting schedule:				<input type="checkbox"/>	<input type="checkbox"/>
Type of lighting controls	§130.1			<input type="checkbox"/>	<input type="checkbox"/>
Location of controls, number of luminaires per control, and standard section with which controls comply				<input type="checkbox"/>	<input type="checkbox"/>
Power adjustment factor (PAF) controls as allowed per table 140.6-A	§140.6(a)2			<input type="checkbox"/>	<input type="checkbox"/>
<b>NRCC-LTI-03: Lighting Power Allowance</b>					
<i>Report type</i>			Conditioned / Unconditioned	<input type="checkbox"/>	<input type="checkbox"/>
Allowed building watts matches values on compliance document <b>NRCC-LTI-01</b>			Yes / No	<input type="checkbox"/>	<input type="checkbox"/>
<b>Complete Building Method</b>				<input type="checkbox"/>	<input type="checkbox"/>
Building type matches project and is listed in Table 140.6-B (90% of building occupancy)	Table 140.6-B			<input type="checkbox"/>	<input type="checkbox"/>
Wattage allowance per building type, building area				<input type="checkbox"/>	<input type="checkbox"/>

*\* Items marked "no" must be corrected*



Permit Number:

<b>NRCC-LTI-03: Lighting Power Allowance <i>continued</i></b>	<b>Standards Section #</b>	<b>Project Notes</b> (PE can use this section to record project data, as needed)	<b>YES</b>	<b>NO*</b>
<b>Are the following NRCC inputs confirmed on the plans?</b>				

<b>Area Category Method - General Lighting</b>				
Primary function area and W/ft² match Table 140.6-C (per area)	Table 140.6-C		<input type="checkbox"/>	<input type="checkbox"/>
Total general area and allowed watts			<input type="checkbox"/>	<input type="checkbox"/>

<b>Area Category Method - Additional Lighting Wattage Allowance</b>				
Verify areas qualify for additional lighting allowance	Table 140.6-C		<input type="checkbox"/>	<input type="checkbox"/>
Ft², linear ft., additional watts, and total design watts			<input type="checkbox"/>	<input type="checkbox"/>

<b>NRCC-LTI-04: Tailored Method</b>				
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<i>Report type</i>		Conditioned / Unconditioned / Both	<input type="checkbox"/>	<input type="checkbox"/>
A. Power Allowance Summary Categories 1-4 (See B, C and D below)			<input type="checkbox"/>	<input type="checkbox"/>
B. General Lighting Power - Table 140.6-D All function areas shown on Table 140.6-D Check illuminance values, room cavity ratio, and floor area of space	Table 140.6-D	Yes / No	<input type="checkbox"/>	<input type="checkbox"/>
C. General Lighting Power - Special Function Areas All function areas NOT shown on Table 140.6-D Check illuminance values, room cavity ratio, and floor area of space	§140.6(c)3H	Yes / No	<input type="checkbox"/>	<input type="checkbox"/>
D. "Use It or Lose It" Allowances <i>Section cannot be used when B &amp; C filled out for compliance</i>  Verify wall display lighting power Verify floor display lighting power Verify ornamental lighting power Verify very valuable display case lighting	Tables 140.6- E through -G		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

<b>NRCC-LTO-01 (Outdoor)</b>				
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<i>Phase of construction</i>		New Construction / Addition / Alteration		
<i>Outdoor lighting zone</i>	Table 10-114-A	OLZ-1 / OLZ-2 / OLZ-3 / OLZ-4		
Verify: Allowed lighting power		<i>See compliance document NRCC-LTO-03: Outdoor Lighting Power Allowances</i>	<input type="checkbox"/>	<input type="checkbox"/>
Total installed watts			<input type="checkbox"/>	<input type="checkbox"/>
Installed lighting ≤ allowed lighting power			<input type="checkbox"/>	<input type="checkbox"/>
Watts per luminaire, number of luminaires, and BUG rating			<input type="checkbox"/>	<input type="checkbox"/>
Mandatory lighting controls selected match scope of project: Type of lighting controls	§130.2(c)		<input type="checkbox"/>	<input type="checkbox"/>
Application of controls, number of luminaires per control, and standard section with which controls comply			<input type="checkbox"/>	<input type="checkbox"/>

\* Items marked "no" must be corrected

Permit Number:

<b>NRCC-LTO-01 (Outdoor) continued</b>		<b>Standards Section #</b>	<b>Project Notes</b>	<b>YES</b>	<b>NO*</b>
<b>Are the following NRCC inputs confirmed on the plans?</b>			(PE can use this section to record project data, as needed)		
Verify light fixtures EXEMPT from lighting power calculations	§140.7(a)			<input type="checkbox"/>	<input type="checkbox"/>
A. Outdoor Lighting Power Allowance Summary: General hardscape allowance and specific power allowance match sections B & C				<input type="checkbox"/>	<input type="checkbox"/>
B. General Hardscape Lighting Power Allowance: Illuminated hardscape area (ft <sup>2</sup> ) and perimeter (ft) match plans AWA, LWA, & IWA per outdoor lighting zone	§140.7(d)1			<input type="checkbox"/>	<input type="checkbox"/>
	Table 140.7-A			<input type="checkbox"/>	<input type="checkbox"/>
C. Specific "Use It or Lose It" Outdoor Lighting Allowance Specific lighting application is appropriate to project scope  Qualifying locations, wattage allowance per lighting zone, number of luminaires, watts per luminaire  Illuminated area per application in C-4	Table 140.7-B			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
	§140.7(d)1			<input type="checkbox"/>	<input type="checkbox"/>
<b>NRCC-LTC (Sign)</b>					
<b>Are the following NRCC inputs confirmed on the plans?</b>					
<i>Number of signs being altered or added?</i>				<input type="checkbox"/>	<input type="checkbox"/>
<i>Sign locations</i>			<i>Indoor / Outdoor / Both</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Compliance methods shown in report</i>			<i>Lighting controls / Allowed lighting power / Specific lighting source</i>	<input type="checkbox"/>	<input type="checkbox"/>
Mandatory Sign Lighting Controls: Applicable controls such as automatic time switches, photocontrols, or demand response EMC.	§130.3			<input type="checkbox"/>	<input type="checkbox"/>
Allowed Lighting Power Compliance Method: Sign area, sign location, type of lamps installed, total sign wattage	§140.8(a)			<input type="checkbox"/>	<input type="checkbox"/>
Specific Lighting Source Compliance Method: Type of lamps installed, watts per lamp, total sign wattage	§140.8(b)			<input type="checkbox"/>	<input type="checkbox"/>

*\* Items marked "no" must be corrected*



Permit Number: \_\_\_\_\_

<b>NRCC-MCH-01</b>		<b>Are the appropriate acceptance forms (NRCA) indicated on the NRCC?</b>	<b>N/A</b>	<b>YES</b>	<b>NO</b>
<b>MCH-02-A: Mechanical Ventilation</b>	<i>Required for all systems having mechanical ventilation.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-03-A: Single Zone Unitary</b>	<i>Required for all constant volume, single-zone, unitary air conditioner and heat pump systems – packaged and split.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-04-H: Air Distribution Ducts</b>	<i>Required for single zone systems serving &lt;5,000 ft<sup>2</sup> with ducts in unconditioned space.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-05-A: Economizer Controls</b>	<i>Required if the system has an economizer.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-06-A: Demand Control Ventilation (DCV)</b>	<i>Required if the system has demand controlled ventilation (DCV).</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-07-A: Supply Fan VAV</b>	<i>Variable air volume (VAV) systems require outside air verification and pressure control verification.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-08-A: Valve Leakage Test</b>	<i>Required for chilled and hot water variable low systems, chiller isolation valves, boiler isolation valves, and water-cooled air conditioner and hydronic heat pump systems.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-09-A: Supply Water Temperature Reset</b>	<i>Required for chilled and hot water systems that do not use VFD pump control and exceed 500 kBtuh capacity.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-10-A: Hydronic System Variable Flow Control</b>	<i>Required for water systems &gt;5HP that have variable frequency drive (VFD) pump control.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-11-A: Automatic Demand Shed Control</b>	<i>All systems with direct digital controls (DDC) to the zone level require demand shed capability.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-12-A: Fault Detection &amp; Diagnostics for DX Units</b>	<i>Air-cooled unitary direct expansion (DX) units, including packaged and split systems, heat pumps and variable refrigerant low (VRF) systems greater than or equal to 54 kBtuh with an economizer, shall include a fault detection and diagnostics (FDD) system that must be Certified by the Commission.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-13-A: Automatic Fault Detection and Diagnostics for Air Handling Units and Zone Terminal Units Acceptance</b>	<i>If automatic FDD for air handling units and zone terminal units is provided.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-14-A: Distributed Energy Storage DX AC Systems Acceptance</b>	<i>Required for DX distributed energy storage (typically ice storage) systems.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-15-A: Thermal Energy Storage Systems</b>	<i>Thermal Energy Storage systems used in conjunction with chiller systems.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-16-A: Supply Air Temperature Reset Controls</b>	<i>Controls to reset supply temperatures required to minimize reheating or re-cooling.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-17-A: Condenser Water Supply Temperature Reset Controls</b>	<i>Systems including condenser supply water reset temperature control.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MCH-18-F: Energy Management System (EMS)</b>	<i>Projects that include an energy management system (EMS) must document system testing using MCH-18A.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

A = Certified Acceptance Tester  
 F = Installing Contractor (Field Technician)  
 H = HERS Rater

*\* Items marked "no" must be corrected*



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Continued on next page



Permit Number:

<b>NRCC-MCH-02 (Wet &amp; Dry Systems)</b>		<b>Standards Section #</b>	<b>Project Notes</b>	
			(PE can use this section to record project data, as needed) <b>YES NO*</b>	
CEC §110.1: Heating and cooling APPLIANCES (equipment <65 kBtuh capacity) must comply with the Appliance Efficiency Regulations, Title 20 California Code of Regulations, Section 1601, and may be installed only if the appliance fully complies with Section 1608(a) of those regulations. Space conditioning equipment must meet the Efficiency requirements of CEC §110.2(a). Equipment with more than one standard or more than one function must meet the requirements of both/all. See §110.2(a) for exceptions.				
<b>Dry Systems</b>				
<b>Mandatory Measures</b>				
Verify heating and cooling efficiencies	App. Stds. 1605 §110.1 or §110.2(a)		<input type="checkbox"/>	<input type="checkbox"/>
Setback thermostats that avoid resistance heating	§110.02(b) §110.2(c)		<input type="checkbox"/>	<input type="checkbox"/>
Forced air furnaces ≥225 kBtuh have intermittent ignition or an interrupted ignition device	§110.2(d)		<input type="checkbox"/>	<input type="checkbox"/>
Low leakage air-handling units must be HERS certified	§110.2(f) §150.1(b) §140.1		<input type="checkbox"/>	<input type="checkbox"/>
Mechanical ventilation meets the standards and if natural ventilation is used, that the area requirements are met and shown on the plans.	§120.1(b) NRCM Table 4-14		<input type="checkbox"/>	<input type="checkbox"/>
Single zone or DDC multi-zone Systems with an economizer serving spaces with less than 40 ft <sup>2</sup> per person require DCV.	§120.1(c)3		<input type="checkbox"/>	<input type="checkbox"/>
Occupant sensor ventilation controls are required for multipurpose rooms <1000 ft <sup>2</sup> , classrooms >750 ft <sup>2</sup> and conference, convention, auditorium and meeting center rooms >750 ft <sup>2</sup> (without contaminants).	§120.1(c)5 §120.2(e)3		<input type="checkbox"/>	<input type="checkbox"/>
Automatic shutoff and reset control timers unless an exception applies.	§120.2(e)		<input type="checkbox"/>	<input type="checkbox"/>
Outdoor air and exhaust damper control unless an exception applies.	§120.2(f)		<input type="checkbox"/>	<input type="checkbox"/>
Isolation zones are required for zones >25,000 ft <sup>2</sup>	§120.2(g)		<input type="checkbox"/>	<input type="checkbox"/>
Demand shed control capability is required if the system has DDC to the zone level.	§120.2(h)		<input type="checkbox"/>	<input type="checkbox"/>
Economizer fault detection and diagnostics are required for systems >54 kBtuh with an economizer.	§120.2(i)		<input type="checkbox"/>	<input type="checkbox"/>
Duct insulation must be R-8 or better for ducts in unconditioned spaces; R-4.2 or better for ducts in indirectly conditioned spaces.	§120.4		<input type="checkbox"/>	<input type="checkbox"/>
<b>Prescriptive Measures</b>				
Equipment sizing calculations are provided on the plans or in the specifications.	§140.4(a)(b)		<input type="checkbox"/>	<input type="checkbox"/>
Supply fan pressure control locations must be shown on the plans.	§140.4(c)		<input type="checkbox"/>	<input type="checkbox"/>
Simultaneous heating and cooling must be minimized in accordance with §140.4(d). The method must be shown on the plans or in the specifications.	§140.4(d)		<input type="checkbox"/>	<input type="checkbox"/>

\* Items marked "no" must be corrected



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Permit Number:

	Standards Section #	Project Notes	
		(PE can use this section to record project data, as needed)	YES NO*
<b>Dry Systems Prescriptive Measures <i>continued</i></b>			
Economizers: If cooling capacity >54 kBtuh verify a 100% water or air economizer. See §140.4(e) for exceptions.	§140.4(e)	<input type="checkbox"/>	<input type="checkbox"/>
>25% duct surface in unconditioned space including under a roof that does not meet current prescriptive insulation requirements for CAV single zone system serving <5,000 ft² require duct sealing and leak testing.	§140.4(l)	<input type="checkbox"/>	<input type="checkbox"/>
<b>Wet Systems (Hydronic)</b>			
<b>Mandatory Measures</b>			
Verify heating, cooling, and chiller efficiencies	App. Stds. 1605 §110.1 or §140.4(l)	<input type="checkbox"/>	<input type="checkbox"/>
For cooling towers ≥150 tons, verify that the Maximum Achievable Cycles of Concentration calculation, signed by the Professional Engineer of record with flow meter, overflow alarm and efficient drift eliminators addressed on plans.	§110.2(e)1, 2, 3, 4, 5	<input type="checkbox"/>	<input type="checkbox"/>
Piping insulation shown on the plans meets the requirements of §120.3 and Table 120.3-A	§120.3	<input type="checkbox"/>	<input type="checkbox"/>
<b>Prescriptive Measures</b>			
Cooling tower fan and low controls meeting the requirements of §140.4(h).	§140.4(h)2 §140.4(h)5 §140.4(h)3	<input type="checkbox"/>	<input type="checkbox"/>
Open Cooling Towers >900 GPM have propeller fans.	§140.4(h)4	<input type="checkbox"/>	<input type="checkbox"/>
Air cooled chillers >300 tons are not allowed. Chillers >300 tons are not air cooled unless an exception applies.	§140.4(j)	<input type="checkbox"/>	<input type="checkbox"/>
Variable low systems hot and chilled water systems with more than three control valves and 1.5 HP pumping power and include automatic variable flow.	§140.4(k)1	<input type="checkbox"/>	<input type="checkbox"/>
Automatic chiller and boiler that include more than one chiller or more than one boiler.	§140.4(k)2 §140.4(k)3	<input type="checkbox"/>	<input type="checkbox"/>
Chilled water (CHW) and Heating hot water (HHW) systems >500 kBtuh include automatic water temperature reset unless variable low is used in accordance with §140(k)1.	§140.4(k)4	<input type="checkbox"/>	<input type="checkbox"/>
Water loop heat pump (WLHP) systems over 5 HP total pumping power have two-position automatic isolation valves on each air conditioner or heat pump.	§140.4(k)5	<input type="checkbox"/>	<input type="checkbox"/>
Variable speed control (VSD) on CHW, CW, and WLHP systems over 5 HP total power.	§140.4(k)6.A	<input type="checkbox"/>	<input type="checkbox"/>
For water loop systems without DDC, VSD Pressure Sensor is located at the most remote (or limiting) heat exchanger.	§140.4(k)6.B.i	<input type="checkbox"/>	<input type="checkbox"/>
For water loop systems with DDC, VSD control pressure is reset based on the limiting valve at no less than 80% open, based on the specifications and sequence of operations.	§140.4(k)6.B.ii	<input type="checkbox"/>	<input type="checkbox"/>

*\* Items marked "no" must be corrected*



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Permit Number:

<b>NRCC-PLB-01 (Plumbing)</b>		<b>Standards Section #</b>	<b>Project Notes</b> (PE can use this section to record project data, as needed)	<b>YES</b>	<b>NO*</b>
Water heater system type / Configuration	§150.1(c)8	Gas storage - single dwelling unit / Gas instantaneous - single dwelling unit / Gas central recirculation - multiple dwelling units / Electric resistance - individual dwelling units /	<input type="checkbox"/>	<input type="checkbox"/>	
Building type	§140.5	Nonresidential / High-rise residential / Hotel or Motel	<input type="checkbox"/>	<input type="checkbox"/>	
Central DHW distribution type	§150.1(c)8		<input type="checkbox"/>	<input type="checkbox"/>	
Dwelling unit DHW distribution type	§150.1(c)8		<input type="checkbox"/>	<input type="checkbox"/>	
Water heater type	NRCM 4.11.9	Small storage gas / Boiler / Small storage electric / Instantaneous large gas / Large storage gas / Instantaneous large electric / Large storage electric / Instantaneous small gas / Heat pump water heater / Instantaneous small electric /	<input type="checkbox"/>	<input type="checkbox"/>	
Fuel type	NRCM 4.11.9	Propane / Gas / Electric	<input type="checkbox"/>	<input type="checkbox"/>	
Water heater information: Efficiency, standby loss, rated input, volume	§120.5(a)4 §140.4(e) NA7.5.4		<input type="checkbox"/>	<input type="checkbox"/>	
<b>PLB-02 &amp; 03 High-rise Multi-family / Hotel / Motel</b>					
For systems serving multiple dwelling units, verify that the recirculation system automatic controls are shown on the plans; solar hot water meeting the requirements of §150.1(c)8 is on the plans; two recirculation systems are on the plans; and compliance with RA4 is explicitly on the plans.	§150.1(c)8		<input type="checkbox"/>	<input type="checkbox"/>	
<b>NRCC-SRA-01 (Solar Ready)</b>					
<i>Building type</i>	§110.10	Hotel/Motel or High-rise 1-10 stories / Nonresidential 1-3 stories	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Report type</i>		New construction / Addition increasing roof size more than 2,000 ft <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	
Path pursued is indicated on plan set		A / B / C / D / E	<input type="checkbox"/>	<input type="checkbox"/>	
<b>NRCC-SRA-02 Minimum Solar Zone</b>					
Method pursued is indicated on plan set		1 or 2	<input type="checkbox"/>	<input type="checkbox"/>	



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Permit Number: \_\_\_\_\_

NRCC-PRC-## (Process) Are the appropriate acceptance forms (NRCA) indicated on the NRCC?		N/A	YES	NO*
PRC-01-F: Compressed Air Systems	Required for all compressed air systems >25 HP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRC-02-F: Commercial Kitchen Exhaust	Required for all new and altered kitchen exhaust systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRC-03-F: Parking Garage Exhaust	Required for all enclosed parking garage exhaust systems with a design ventilation low rate of >10,000 cfm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRC-04-F: Refrigerated Warehouse Evaporator Fan Motor Controls Acceptance	Refrigerated warehouse evaporator fan motor controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRC-05-F: Refrigerated Warehouse Evaporator Condenser Controls	Refrigerated warehouse evaporator condenser controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRC-06-F: Refrigerated Warehouse Air Cooled Condenser Controls	Refrigerated warehouse air cooled condenser controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRC-07-F: Refrigerated Warehouse Variable Speed Compressors	Refrigerated warehouse variable speed compressors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRC-08-F: Refrigerated Warehouse Underslab Heating	Refrigerated warehouse underslab heating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NRCC-ELC-01 (Electrical) Are the appropriate sections of the NRCC-ELC-01E completed correctly?				
NRCC-ELC-01E A. Electrical Service Metering	Each newly installed electrical service (in both existing and newly constructed buildings)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NRCC-ELC-01E B. Disaggregation of Electrical Circuits	Each newly installed switchboard, panel, and motor control center (in both existing and newly constructed buildings).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NRCC-ELC-01E C. Voltage Drop	Field inspector has discretion to approve the worksheets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NRCC-ELC-01E D. Circuit Controls for 120-Volt Receptacles	At least one controlled receptacle is installed within 6 feet of each uncontrolled receptacle, or split-wired duplex receptacles are installed, that have one controlled and one uncontrolled receptacle.  This applies in all of the following spaces: Private offices, open office areas, reception and lobbies; conference rooms; kitchenettes in office spaces; copy rooms. For hotel and motel guestrooms at least one-half of the 120-volt receptacles in each guest room are controlled receptacles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

A = Certified Acceptance Tester  
 F = Installing Contractor (Field Technician)  
 H = HERS Rater

*\* Items marked "no" must be corrected*

