



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

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

New Construction, Addition, and/or Alteration
 1 of 4 checklists to be completed
 1: Overview & General Information,
 2: Envelope, 3: Mechanical, and 4: Lighting

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 / Prescriptive forms supporting performance forms (S) Prescriptive forms for compliance (C)
 (see *Nonresidential Prescriptive Method Checklist*)

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	C = Prescriptive forms submitted for compliance S = Prescriptive forms submitted as support to a PRF-01
	Prescriptive Forms	<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	

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: Responsible building designers or owner? <i>Electronic signature for registered documents / wet signed for other</i> Documentation author? <i>Electronic signature always allowed</i>	<input type="checkbox"/>	<input type="checkbox"/>
Is HERS verification required? If HERS verification is required, has the NRCC been registered with a HERS provider?	<input type="checkbox"/>	<input type="checkbox"/>
Do all pages of the NRCC-PRF-01-E have the same "Report Generated" date and time?	<input type="checkbox"/>	<input type="checkbox"/>
Compliance software approved for 2013 nonresidential standards?	<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"/>
Orientation	Azimuth =	<input type="checkbox"/>
Building Type		<input type="checkbox"/>

** Items marked "no" must be corrected*



This program is funded by California utility customers under the auspices of the California Public Utilities Commission and in support of the California Energy Commission.

Continued on reverse side

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

** Items marked “no” must be corrected*

Additional Notes: _____



Are the following NRCC-PRF inputs confirmed on the plans?	Standards Section #	Project Notes	
		(PE can use this section to record project data, as needed) YES NO*	
Exterior Opaque Surfaces			
Walls:		Exterior / Interior / Underground Area:	<input type="checkbox"/> <input type="checkbox"/>
U-factor			<input type="checkbox"/> <input type="checkbox"/>
Frame type		Metal / Wood / Other	<input type="checkbox"/> <input type="checkbox"/>
Insulation R-value			<input type="checkbox"/> <input type="checkbox"/>
Roof:		Area:	<input type="checkbox"/> <input type="checkbox"/>
U-factor			<input type="checkbox"/> <input type="checkbox"/>
Frame type		Metal / Wood / Other	<input type="checkbox"/> <input type="checkbox"/>
Insulation R-value			<input type="checkbox"/> <input type="checkbox"/>
Cool roof		Yes / No Rise: Reflectance: Emittance:	<input type="checkbox"/> <input type="checkbox"/>
Floors:		Area:	<input type="checkbox"/> <input type="checkbox"/>
U-factor			<input type="checkbox"/> <input type="checkbox"/>
Frame type		Metal / Wood / Other	<input type="checkbox"/> <input type="checkbox"/>
Insulation R-value			<input type="checkbox"/> <input type="checkbox"/>
Slab:	JA4.4	Area:	<input type="checkbox"/> <input type="checkbox"/>
Perimeter (ft)			<input type="checkbox"/> <input type="checkbox"/>
Heated	§110.8(g)	Yes / No R-value: Depth (in):	<input type="checkbox"/> <input type="checkbox"/>
Fenestration			
Fenestration:	§100.1	Area by orientation. See General Information "Glazing Area."	<input type="checkbox"/> <input type="checkbox"/>
Fenestration type		Fixed / Operable / Curtain wall / Glazed door	<input type="checkbox"/> <input type="checkbox"/>
Frame type		Metal / Non-metal / Thermally broken	<input type="checkbox"/> <input type="checkbox"/>
Certification and assembly method	§100.1	CEC default / NA6 / NFRC	<input type="checkbox"/> <input type="checkbox"/>
U-factor	§100.1		<input type="checkbox"/> <input type="checkbox"/>
Solar heat gain coefficient (SHGC)	§100.1		<input type="checkbox"/> <input type="checkbox"/>
Visible transmittance (VT)	§100.1		<input type="checkbox"/> <input type="checkbox"/>
Mandatory			
Verify compliance with envelope mandatory measures	§110.6, §110.7, §110.8, §120.7		<input type="checkbox"/> <input type="checkbox"/>
Are the envelope measures in the plans equal to, or better than, the PRF-01, and do they meet mandatory measures?			

* Items marked "no" must be corrected



Are the following NRCC-PRF inputs confirmed on the plans?	Standards Section #	Project Notes (PE can use this section to record project data, as needed)	YES	NO*
Number of air systems			<input type="checkbox"/>	<input type="checkbox"/>
Mechanical (air) system type (circle all that apply)		<i>PVAV / VAV / SZAC / SZHP / SZVAVAC / SZVAVHP / HV / Split / Packaged</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling equipment and efficiency:	§100.1	Type	<input type="checkbox"/>	<input type="checkbox"/>
Air conditioner SEER/EER		§100.1, §110.2	<input type="checkbox"/>	<input type="checkbox"/>
Rated output			<input type="checkbox"/>	<input type="checkbox"/>
Heating equipment and efficiency:				
Type		<i>Resistance / Furnace / Heat pump / Hot water / Steam</i>	<input type="checkbox"/>	<input type="checkbox"/>
Rated output	§100.1, §110.2	<i>AFUE / HSPF / Thermal efficiency</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizers and Fans:				
Economizer type		<i>No economizer / Fixed dry bulb / Differential bulb / Differential enthalpy / Differential dry bulb + enthalpy</i>	<input type="checkbox"/>	<input type="checkbox"/>
Outside air CFM	§120.1		<input type="checkbox"/>	<input type="checkbox"/>
Supply fan CFM			<input type="checkbox"/>	<input type="checkbox"/>
Supply fan HP / BHP			<input type="checkbox"/>	<input type="checkbox"/>
Supply fan control		<i>Constant volume / Variable speed / Dampers / Inlet vanes / Two speed</i>	<input type="checkbox"/>	<input type="checkbox"/>
Return fan CFM			<input type="checkbox"/>	<input type="checkbox"/>
Return fan HP / BHP			<input type="checkbox"/>	<input type="checkbox"/>
Return fan control		<i>Constant volume / Variable speed / Dampers / Inlet vanes / Two speed</i>	<input type="checkbox"/>	<input type="checkbox"/>
Central Plant Equipment:				
Chillers				
Type		<i>Centrifugal / Reciprocating / Scroll / Screw / Single effect absorption / Direct fired double effect absorption / Indirect fired double effect absorption / Gas engine driven</i>	<input type="checkbox"/>	<input type="checkbox"/>
Rated capacity			<input type="checkbox"/>	<input type="checkbox"/>
Rated efficiency	§100.1, §110.2	<i>kW/ton / EER / IPLV / COP</i>	<input type="checkbox"/>	<input type="checkbox"/>

** Items marked "no" must be corrected*

Are the following NRCC-PRF inputs confirmed on the plans?	Standards Section #	Project Notes (PE can use this section to record project data, as needed) YES NO*
Central Plant Equipment: <i>continued</i>		
Cooling Towers		
Type	§110.2	Open tower / Closed tower / Ground source heat exchanger / Lake / Well <input type="checkbox"/> <input type="checkbox"/>
Fan HP		<input type="checkbox"/> <input type="checkbox"/>
Capacity control		Bypass / Cycling / Two speed / Variable speed drive <input type="checkbox"/> <input type="checkbox"/>
Boilers		
Fuel source Type		Gas / Oil / Electric <input type="checkbox"/> <input type="checkbox"/>
Rated capacity		Hot water / Steam <input type="checkbox"/> <input type="checkbox"/>
Efficiency	§100.1, §110.2, §120.9	AFUE / Thermal efficiency / Combined <input type="checkbox"/> <input type="checkbox"/>
Pumps		
Type		Hot water / Cooling tower / Chiller <input type="checkbox"/> <input type="checkbox"/>
Pump flow GPM:		Maximum / Minimum <input type="checkbox"/> <input type="checkbox"/>
Pump power		KW / HP / BHP <input type="checkbox"/> <input type="checkbox"/>
Pump speed control		Constant speed / Variable speed <input type="checkbox"/> <input type="checkbox"/>
Zonal Systems		
Type		PTAC / PTHP / FPHC / Baseboard <input type="checkbox"/> <input type="checkbox"/>
Cooling equipment and efficiency:		
Type		Chilled water / Direct expansion <input type="checkbox"/> <input type="checkbox"/>
Air conditioner EER	§100.1, §110.2	<input type="checkbox"/> <input type="checkbox"/>
Rated output		<input type="checkbox"/> <input type="checkbox"/>
Heating equipment and efficiency:		
Type		Resistance / Furnace / Heat pump / Hot water / Steam <input type="checkbox"/> <input type="checkbox"/>
Efficiency	§100.1, §110.2	AFUE / Thermal efficiency / COP <input type="checkbox"/> <input type="checkbox"/>
		Rated output <input type="checkbox"/> <input type="checkbox"/>
Fans:		
CFM		<input type="checkbox"/> <input type="checkbox"/>
HP / BHP		<input type="checkbox"/> <input type="checkbox"/>
Control		Constant volume / Variable speed / Dampers / Inlet vanes / Two speed <input type="checkbox"/> <input type="checkbox"/>

** Items marked "no" must be corrected*



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Are the following NRCC-PRF inputs confirmed on the plans?	Standards Section #	Project Notes (PE can use this section to record project data, as needed) YES NO*
Central Plant Equipment: <i>continued</i>		
Terminal Units: #		
Type		<i>Uncontrolled / VAV reheat box / Parallel fan box</i> <input type="checkbox"/> YES <input type="checkbox"/> NO
Heat type		<i>Resistance / Furnace / Heat pump / Hot water / Steam</i> <input type="checkbox"/> YES <input type="checkbox"/> NO
Primary air CFM		<input type="checkbox"/> YES <input type="checkbox"/> NO
Minimum primary air ratio		<input type="checkbox"/> YES <input type="checkbox"/> NO
Fan BHP		<input type="checkbox"/> YES <input type="checkbox"/> NO
Heating and cooling load calculations provided?		<input type="checkbox"/> YES <input type="checkbox"/> NO
Mandatory		
Verify compliance with Mandatory Measures		<input type="checkbox"/> YES <input type="checkbox"/> NO
Service Hot Water (DHW) Systems:		
Number of water heating systems		<input type="checkbox"/> YES <input type="checkbox"/> NO
Fuel type	§110.3	<i>Natural gas, Electric, Propane, Fuel oil</i> <input type="checkbox"/> YES <input type="checkbox"/> NO
Water heater type	§110.3	<i>Storage / Instantaneous / Other pending</i> <input type="checkbox"/> YES <input type="checkbox"/> NO
Distribution	§110.3	<i>Recirculating / Non-recirculating</i> <input type="checkbox"/> YES <input type="checkbox"/> NO
Rated input Btuh	§100.1,	<input type="checkbox"/> YES <input type="checkbox"/> NO
Efficiency	§110.1,	<i>Energy factor or recovery</i> <input type="checkbox"/> YES <input type="checkbox"/> NO
Standby loss Btuh	§110.3, §120.3	<input type="checkbox"/> YES <input type="checkbox"/> NO
Verify compliance with mandatory measures		<input type="checkbox"/> YES <input type="checkbox"/> NO
Are DHW systems in plans equal to, or better than, PRF-01, and do they meet mandatory measures?		

** Items marked "no" must be corrected*



Are the following NRCC-PRF inputs confirmed on the plans?	Standards Section #	Project Notes	
		(PE can use this section to record project data, as needed) YES NO*	
Indoor Lighting (conditioned space only):			
Does compliance scope include indoor lighting?	§140.1	Yes / No	<input type="checkbox"/> <input type="checkbox"/>
Basis of lighting power type in standard design "Allowed (Baseline) Lighting Power"	§140.1(a), §140.6	<i>New construction / Addition / Alteration</i>	<input type="checkbox"/> <input type="checkbox"/>
Space occupancy stated on plans matches lighting category used in report (complete or area method)	§100.1, Tables 140.6-B&C		<input type="checkbox"/> <input type="checkbox"/>
Floor areas by occupancy type on PRF-01 match plans			<input type="checkbox"/> <input type="checkbox"/>
Lighting Control Credits on PRF-01 match plans	Table 140.6-A	<i>See NRCC-LTI-02-E or equivalent</i>	<input type="checkbox"/> <input type="checkbox"/>
Installed Lighting Power on PRF-01 matches plans	§130.0(c)	<i>See NRCC-LTI-02-E or equivalent</i>	<input type="checkbox"/> <input type="checkbox"/>
Verify compliance with Mandatory Measures		<i>See NRCC-LTI-02-E or equivalent</i>	<input type="checkbox"/> <input type="checkbox"/>
Is the indoor lighting in the plans equal to, or better than, the PRF-01, and does it meet mandatory measures?			

** Items marked "no" must be corrected*