

2013 Energy Standards Nonresidential Forms

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Goals of this Session

- Provide a general overview of the nonresidential compliance forms
- Clarify the purpose of nonresidential compliance forms
- Identify when nonresidential compliance forms are required
- Simplify verification of nonresidential compliance forms for Plans Examiners and Field Inspectors



QUESTIONS...

- Please feel free to ask at anytime!
 - During training
 - ≻ At break
 - > Afterwards
- Your questions will enhance this training





A Little CEC History

- Section 25402 of the Public Resources Code (known as the Warren Alquist Act)
- The act created the Energy Commission in 1974 and gave it authority to develop and maintain Building Energy Efficiency Standards
- Requires the Standards and new requirements to be cost effective over the economic life of the structure
- Requires the Energy Commission to update the Standards periodically (about every 3 years)

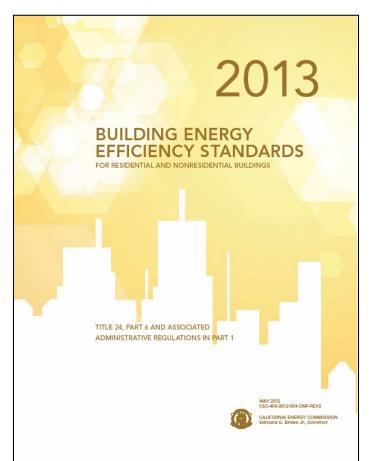


Let's discuss the 2013 Building Energy Efficiency Standards



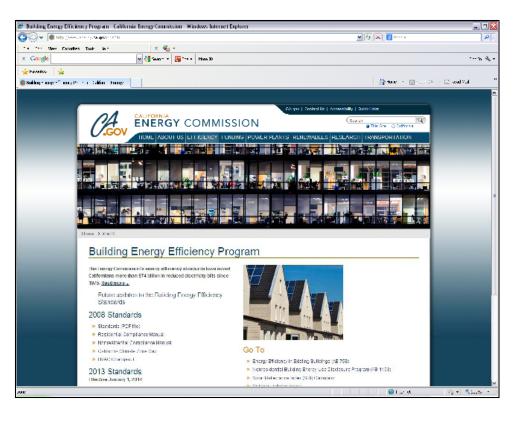
2013 Building Energy Efficiency Standards

- Effective on July 1, 2014
 - Building permit applications submitted on or after this date
- Larger projects in plan review may be affected:
 - Need to resubmit if permits pulled on/after effective date





2013 Documents



- Building Energy Efficiency Standards
- Nonresidential Compliance Manual
- Reference Appendices
- All docs. available online at:

www.energy.ca.gov/title24



Let's talk about the nonresidential compliance forms



What are compliance forms?

- Documents that confirm compliance with the Energy Standards
- Completed by designers, consultants, builders, contractors, technicians, HERS raters, etc.
- Submitted to enforcement agencies for verification
 - Certificate of Compliance (NRCC)
 - Certificate of Installation (NRCI)
 - Certificate of Acceptance (NRCA)
 - Certificate of Verification (NRCV)



When are forms required?

- When the Energy Standards are applicable
- Both residential and nonresidential projects
- Newly constructed buildings, additions, alterations
- Different forms are required at various stages of the permit/construction process
 - Permit/Plan Review
 - Final Inspection



Which forms are required?

- Depends on:
 - Building type (res/nonres)
 - Project type (new, addition, alteration)
 - Scope of the project (i.e. outdoor lighting, covered process, etc.)
 - Depends on compliance approach (Prescriptive vs. Performance)



Where can I find the forms?

Appendix A of the 2013 Nonresidential Compliance Manual

CALIFORNIA ENERGY COM	MISSION	Search
Home About Us Analysis & Sta	ats Efficiency Funding Power Plants Renew	ANY CONTRACTOR OF A CONTRACTOR
e ->> title24 ->>> 2013standards ->>> nonres compliance forms		
2013 Nonresidential Compli	iance Forms	
2013 Nonresidential Compli	iance Forms	
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http://www.energy.ca.gov/title24/2013standards/nonres_compliance_forms/



What is the NRCC?

- Nonresidential Certificate of Compliance
- Required with/on plans at permit
- Demonstrates compliance at design phase
- Completed by designer, architect, energy consultant, engineer, etc.
- Plans Examiner verifies NRCC matches specs on plans



What is the NRCI?

- Nonresidential Certificate of Installation
- Required for Final Inspection
- Confirms compliance at installation
- Completed by builder or installing contractor
- Field Inspector verifies efficiency/components matches installed equipment and systems



What is the NRCA?

- Nonresidential Certificate of Acceptance
- Required for Final Inspection
- Confirms compliance with acceptance testing requirements at installation (HVAC & Lighting)
- Completed by builder/installing contractor, OR an Acceptance Test Technician (ATT) when required
- Field Inspector verifies applicable tests and forms are complete/signed when required



What is the NRCV?

- Nonresidential Certificate of Verification
- Required for Final Inspection
- Confirms compliance with HERS testing requirements at installation (duct leakage & hot water piping)
- Completed by certified HERS rater, and forms must be registered with an approved HERS Provider
- Field Inspector verifies testing and forms are complete/signed when required



Let's talk about the Commissioning forms



When are CRX forms required?

• For all "building" projects

> Newly constructed building and additions

Nonresidential buildings/spaces only

- Alterations (applicable sections/forms completed)
 Any Envelope, HVAC, or Lighting alteration
- Include specifications for building design review, commissioning, acceptance testing, simple and complex HVAC systems, etc.



NRCC-CRX Forms

NRCC-CXR-01 (Design Review Kickoff) ✓

> <u>All</u> projects; scope, design reviewer, etc. specified

- NRCC-CXR-02 (Construction Documents) ✓
 > <u>All projects</u>; mandatory design review per §120.8
- NRCC-CXR-03 (Simple HVAC Systems) ✓

Design review for packaged, simple split A/C and HPs

- NRCC-CXR-04 (Complex HVAC Systems) ✓
 ➢ Design review for complex, built-up systems
- NRCC-CXR-05 (Design Reviewer Signatures) ✓
 ➤ Completed/signed by qualifying reviewer per §120.8



Let's talk about the Envelope forms



When are ENV forms required?

• For all "building" projects

Newly constructed buildings and additions (conditioned)

- Alterations (applicable sections of forms completed)
 - ➢ Re-roofs
 - Fenestration replacements/additions
- Include specifications for insulation, fenestration U-Factor and SHGC, cool roof solar reflectance and thermal emittance, etc.

NRCC-ENV Forms

- NRCC-ENV-01 (Component Approach)
 - <u>All</u> projects
- NRCC-ENV-02 (Fenestration Worksheet) ✓
 - Prescriptive for maximum glazing areas
- NRCC-ENV-03 (SRI Worksheet)

➤ Cool roofs using calc.

• NRCC-ENV-04 (Daylit Worksheet) ✓

Prescriptive when skylights required

• NRCC-ENV-05 (Fenestration Certificate Label)

➢ For glazing using default values in §110.6

• NRCC-ENV-06 (Area Weighted Worksheet)

* Prescriptive requirements in §140.3



NRCI-ENV and NRCA-ENV Forms

- NRCI-ENV-01 (Certificate of Installation) \checkmark
 - ➤ <u>All</u> projects
 - Efficiency values/components specified
- NRCA-ENV-02 (Fenestration Acceptance) ✓

Required for site-built fenestration

Completed by builder/installing contractor; NO certification required



Let's talk about the Mechanical forms



When are MCH forms required?

• For all "building" projects

Newly constructed buildings and additions (conditioned)

- Alterations (applicable sections of forms completed)
 > HVAC changeouts/alterations
 - Duct replacements/additions
- Include specifications for HVAC equipment efficiency values, duct insulation R-value, system controls, testing results, etc.



NRCC-MCH Forms

- NRCC-MCH-01 (Mechanical Systems)
 - Prescriptive for multi zone systems
- NRCC-MCH-02 (HVAC System Requirements)
 - Prescriptive for multi zone dry and wet HVAC systems
- NRCC-MCH-03 (Ventilation and Reheat)
 - Mandatory OSA and Prescriptive for reheat
- NRCC-MCH-04 (Acceptance Tests)
 - Prescriptive for single zone packaged units
- NRCC-MCH-05 (HVAC System Requirements)
 - Prescriptive for single zone packaged units
- NRCC-MCH-06 (Maximum Cycles Worksheet)
- NRCC-MCH-07 (Fan Power Consumption) Prescriptive

* Prescriptive requirements in §140.4



NRCI-MCH and NRCA-MCH Forms

- NRCI-MCH-01 (Certificate of Installation)
 All projects; Efficiency values/components specified
- NRCA-MCH-02 (Outside Air) ✓
- NRCA-MCH-03 (Constant volume, single zone, ACs & HPs)
- NRCA-MCH-04 (Duct leakage) 🗸
- NRCA-MCH-05 (Economizers) ✓
- NRCA-MCH-06 (DCV systems) ✓
- NRCA-MCH-07 (Fan Variable Flow Controls)



NRCA-MCH Forms cont.

- NRCA-MCH-08 (Hydronic variable flow control valves)
- NRCA-MCH-09 (Hydronic with temp. reset controls)
- NRCA-MCH-10 (Hydronic variable flow controls)
- NRCA-MCH-11 (Automatic demand shed controls)
- NRCA-MCH-12 (FDD for packed DX units) \checkmark
- NRCA-MCH-13 (FDD for AH and zone terminal units) \checkmark
- NRCA-MCH-14 (Distributed energy storage DX systems)
- NRCA-MCH-15 (Thermal energy storage systems) ✓
- NRCA-MCH-16 (Supply air temp. reset controls)
- NRCA-MCH-17 (Condenser water supply temp. reset controls)
- NRCA-MCH-18 (Energy Management Control Systems) ✔

* Testing must be conducted by a certified ATT when thresholds are satisfied



NRCV-MCH Forms

• NRCV-MCH-04 (Duct leakage testing) ✓

Must be completed/signed by certified HERS Rater

> Must be registered with an approved HERS Provider

- Prescriptive requirement for new construction and HVAC alterations
 - Constant volume, single zone HVAC systems; and
 - Serves less than 5,000 ft²; and
 - More than 25% of ducts are located outside or in unconditioned space



Let's talk about the Plumbing forms



When are PLB forms required?

- For all "building" projects
 - Newly constructed buildings and additions (conditioned) with a water heating system
 - Compliance credit and HERS testing/credit now available
- Alterations (applicable sections of forms completed)
 Water heating system alterations
- Include specifications for water heating system and distribution type, efficiency values, compliance credits, testing results, etc.



NRCC-PLB Forms

NRCC-PLB-01 (Certificate of Compliance) ✓

➢ <u>All</u> projects

Systems type, efficiency values, and required NRCI forms specified

• NRCC-STH-01 (Solar Water Heating Worksheet)

- Required only for solar water heating systems
- ≻ F-Chart calculations required
- SRCC data, collector information, and system performance specified



NRCI-PLB Forms

- NRCI-PLB-01 (Certificate of Installation) ✓
 - > All projects; Efficiency values/components specified
- NRCI-PLB-02 (Central Hot Water Distribution)
 - Compliance credit modeled for high-rise res and hotel/motel
- NRCI-PLB-03 (Single Dwelling Hot Water Distribution)
 - Compliance credit modeled for high-rise res and hotel/motel
- NRCI-PLB-21-HERS (Central Hot Water Distribution)
 > HERS credit model for high-rise res and hotel/motel
- NRCI-PLB-22-HERS (Single Dwelling Hot Water Distribution)
 NIEDS and differentiate mission and herel/metal
 - HERS credit model for high-rise res and hotel/motel
- NRCI-STH-01 (Solar Water Heating) ✓

Required when solar water heating is installed



NRCV-PLB Forms

• NRCV-PLB-21 (Central Hot Water Distribution)

> HERS verification for high-rise res and hotel/motel

• NRCV-PLB-22 (Single Dwelling Hot Water Distribution)

> HERS verification for high-rise res and hotel/motel

- * Forms must be completed/signed by a certified HERS Rater
- * Forms must be registered with an approved HERS Provider



Let's talk about the Indoor Lighting forms



When are LTI forms required?

- For all "building" projects
 - Newly constructed buildings and additions (conditioned and unconditioned)
- Alterations (applicable sections of forms completed)
 - Wiring, lighting system, and luminaire modification-in-place alterations
- Include specifications for lighting controls, lighting power, installation criteria, testing results, etc.

NRCC-LTI Forms

- NRCC-LTI-01 (Certificate of Compliance) 🗸
 - <u>All</u> projects; NRCI & NRCA, lighting power summarized
- NRCC-LTI-02 (Lighting Controls)

> <u>All</u> projects; mandatory requirements

- NRCC-LTI-03 (Lighting Power Allowance) ✓
 > <u>All projects</u>; Complete and Area Category Methods
- NRCC-LTI-04 (Tailored Method)

 \succ Required only when this method is used

• NRCC-LTI-05 (Line Voltage Track Lighting Worksheet)



NRCI-LTI Forms

- NRCI-LTI-01 (Certificate of Installation) ✓
 ➤ All projects; controls, LPDs, etc. specified
- NRCI-LTI-02 (EMCS/Lighting Control System) ✓
- NRCI-LTI-03 (Track Lighting Limiter or Supplementary Overcurrent Protection Panel)
- NRCI-LTI-04 (Two Interlocked Lighting Systems) ✓
- NRCI-LTI-05 (Power Adjustment Factors) ✓
- NRCI-LTI-06 (Videoconference Studio Lighting)
- * Forms completed/signed by builder/installing contractor



NRCA-LTI Forms

• NRCA-LTI-02 (Lighting Controls) ✓

<u>All</u> projects; mandatory requirements

NRCA-LTI-03 (Automatic Daylighting Controls) ✓

≻ Mandatory and prescriptive requirements - §130.1 & §140.6

• NRCA-LTI-04 (Demand Responsive Controls)

➤ Mandatory requirements for larger building spaces - §130.5

* Forms MUST be completed/signed by a certified ATT



Let's talk about the Outdoor Lighting forms



When are LTO forms required?

- For "building" projects with outdoor lighting
 - Building façade, hardscape, parking lots, sales lots and canopies, dining, etc.
- Alterations to outdoor lighting and/or controls
 Applicable sections of forms completed
- Include specifications for lighting controls, lighting power, installation criteria, testing results, etc.



NRCC-LTO Forms

NRCC-LTO-01 (Certificate of Compliance) ✓

> <u>All</u> projects; NRCI & NRCA, lighting power summarized

• NRCC-LTO-02 (Lighting Controls) 🗸

<u>All</u> projects; mandatory requirements - §130.2

- NRCC-LTO-03 (Lighting Power Allowance) ✓
 - All projects; prescriptive requirements for lighting power calculations §140.7



NRCI-LTO and NRCA-LTO Forms

• NRCI-LTO-01 (Certificate of Installation) ✓

> All projects; controls, lighting power, etc. specified

- NRCI-LTO-02 (EMCS/Lighting Control System)
- NRCA-LTO-02 (Lighting Controls) ✓

> All projects; mandatory requirements

* NRCA form must be completed/signed by a certified ATT



Let's talk about the Sign Lighting forms



When are LTS forms required?

• For projects with sign lighting

> Applicable to both indoor and outdoor signs

- Alterations to sign lighting and/or controls
 Applicable sections of forms completed
- Include specifications for lighting controls, lighting power, lighting source type, etc.



NRCC-LTS and NRCI-LTS Forms

NRCC-LTS-01 (Certificate of Compliance) ✓

≻ <u>All</u> projects

- ➤ Mandatory controls specified §130.3
- Prescriptive lighting power calculations or alternative light source indicated - §140.8
- NRCI-LTS-01 (Certificate of Installation) ✓
 - All projects; controls, lighting power and/or light source, etc. specified



Let's talk about the Electrical Power Distribution forms



When are ELC forms required?

- For all "building" projects
 - Newly constructed buildings and additions (conditioned and unconditioned)
- Alterations (applicable sections of forms completed)
 - New electrical service, switchboards, panels, motor control centers, and receptacle alterations in certain spaces
- Include specifications for service metering, disaggregation of circuits, voltage drop, receptacle controls, etc.



NRCC-ELC and NRCI-ELC Forms

NRCC-ELC-01 (Certificate of Compliance) ✓

≻ <u>All</u> projects

- Mandatory metering, disaggregation, voltage drop, and receptacle controls specifications indicated - §130.5
- NRCI-ELC-01 (Certificate of Installation) ✓
 - All projects; electrical power distribution components above specified



Let's talk about the Solar Ready forms



When are SRA forms required?

- For "building" projects that are:
 - Newly constructed buildings and additions > 2,000 ft² (conditioned) for:
 - Hotel/motel buildings ≤ 10 stories
 - High-rise multi-family buildings ≤ 10 stories
 - Nonresidential buildings ≤ 3 stories
- Include specifications for solar zone area, orientation, interconnection pathways, structural design loads, etc., and/or exemptions for solar PV, solar water heating, and high efficacy lighting and smart thermostats



NRCC-SRA and NRCC-STH Forms

- NRCC-SRA-01 (Solar Ready Areas) ✓
 - ➢ <u>All</u> projects
 - Mandatory solar zone area or exemption specifications indicated - §110.10
- NRCC-SRA-02 (Min. Solar Zone Worksheet) ✓
 - Required if not exempt and meeting the solar zone area requirements
- NRCC-STH-01 (Solar Water Heating)

> Required if installing solar water heating for exemption



NRCI-SPV and NRCI-STH Forms

* No NRCI-SRA Forms; requirements apply to design

• NRCI-SPV-01 (Solar PV Systems) ✓

Required only if solar PV installed as exemption

• NRCI-STH-01 (Solar Water Heating Systems)

> Required only is solar water heating installed as exemption

* Forms completed/signed by builder/installing contractor



Let's talk about the Covered Processes forms



When are PRC forms required?

• For projects with process spaces/components "covered" under the scope of the Energy Standards

Newly constructed building and additions

- ➤ Mandatory requirements and triggers in §120.6
- Prescriptive requirements and triggers in §140.9
- Alterations (applicable sections/forms completed)

> Alterations to covered process spaces/components

• Include specifications for covered process/components based on scope of project



PRC Triggers (Mandatory)

- Commercial refrigeration reqs. in §120.6(b)
 - ➤ Applicable to retail food stores with $CFA \ge 8,000$ ft² that have refrigeration
- Enclosed parking garages reqs. in §120.6(c)
 - > Applicable if total design exhaust rate \geq 10,000 CFM
 - Acceptance testing req. for ventilation
- Process boiler reqs. in §120.6(d)

Applicability based on boiler capacity (Btu/h)

- Compressed air system reqs. in §120.6(e)
 - ► Applicable to compressors with HP ≥ 25
 - Acceptance testing req. for compressor and controls



PRC Triggers (Prescriptive)

- Computer room reqs. in §140.9(a)
 - ➢ Economizers
 - Reheat, humidification, fan power consumption and controls, containment
- Commercial kitchen reqs. in §140.9(b)
 - Applicable to Type I and Type II kitchen hoods with total exhaust airflow rate > 5,000 cfm
 - ➢ Maximum exhaust rates in TABLE 140.9-A
 - Acceptance testing req. for exhaust rate
- Laboratory exhaust reqs. in §140.9(c)
 - ▶ Applicable when min. circulation rate is ≤ 10 ACH



NRCC-PRC Forms

- NRCC-PRC-01 (Certificate of Compliance) <u>All</u> projects \checkmark
- NRCC-PRC-02 (Parking Garage Exhaust)
- NRCC-PRC-03 (Commercial Kitchens) 🗸
- NRCC-PRC-04 (Computer Rooms)
- NRCC-PRC-05 (Commercial Refrigeration) 🗸
- NRCC-PRC-06 (Refrigerated Warehouse Projects)
- NRCC-PRC-07 (Refrigerated Warehouse space \geq 3,000 ft²)
- NRCC-PRC-08 (Multiple Refrigerated Warehouse spaces \geq 3,000 ft²)
- NRCC-PRC-09 (Laboratory Exhaust)
- NRCC-PRC-10 (Compressed Air Systems)
- NRCC-PRC-11 (Process Boilers)



NRCI-PRC and NRCA-PRC Forms

- NRCI-PRC-01 (Certificate of Installation) <u>All</u> projects \checkmark
- NRCA-PRC-01 (Compressed Air Systems)
- NRCA-PRC-02 (Commercial Kitchen Exhaust) ✓
- NRCA-PRC-03 (Parking Garage Exhaust) ✓
- NRCA-PRC-04 (RWH Evaporators Fans)
- NRCA-PRC-05 (RWH Evaporative Condenser Controls)
- NRCA-PRC-06 (RWH Air Cooled Condenser Controls)
- NRCA-PRC-07 (RWH Variable Speed Compressors)
- NRCA-PRC-08 (RWH Electric Resistance Underslab Heating)

* Completed/signed by builder/installing contracor; no ATT certification req.



CALIFORNIA ENERGY COMMISSION

Resources: ACE Checklists

	lumber:	Checklist		Neu Permit Applicant: Phone: Plans Examiner:	Construction, Addit 1 of 4 cbeu 1: Overvi 2: Envelope, 3: N	al Information tion, and/or Alteratio :klists to be complete ea & General Information feechanical, and 4: Lightin
Comp	liance Scope (Cl	eck all that apply	and confirm all a	Phone:	e available)	
Perform		tive forms supporting p ive Method Checklist)	erformance forms (S)	Prescriptive forms for a	compliance (C)	
Performance and/or Prescriptive Forms		MECH-01 C or 5 MECH-02 C or 5 MECH-03 C or 5 MECH-04 C or 5 MECH-05 C or 5	LTI-01 CorS	Lighting -Outeloor LTO-01 LTO-02 LTO-03	□ Lighting-Sign □ LTS-01	C = Prescriptive forms submitted for compliance S = Prescriptive forms submitted as support to a PRF-01
Prescriptive Forms	Commissioning CXR-01 CXR-02 CXR-03 CXR-04 CXR-04 CXR-05	Electrical ELC-01	Plumbing PLB-01	Process PRC-01 PRC-02 PRC-03 PRC-04 PRC-04 PRC-06 PRC-06 PRC-07 PRC-06 PRC-07 PRC-08 PRC-09 PRC-09	□ Solar Ready Area □ SRA-01 □ SRA-02	□ Solar Thermal □ STH-01
	e following NRC med on the plans		(PE can use t	Project Notes his section to record proje	rt data las needed)	YES NO*
	-	Compliance (NRCC) be			as needed.	
	NRCC documents file	/				
Resp Docu	onsible building desig mentation author?	Elec	tronic signature for re tronic signature alway	gistered documents / w rs allowed	et signed for other	
	S verification required RS verification is requ	? uired, has the NRCC be	en registered with a l	HERS provider?		
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		ed for 2013 nonresiden	tial standards?	Software version:		
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This program is funded by California utility customers under the auspices of the California Helphy yw pby ywr croks tort Public Utilities Commission and in support of the California Energy Commission.

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Ace Resources	Inspection	Chec	Klist		EnergyCode Ace" Helping you play your cards light
Project Address:					
PROJECT CONTACTS					
PermitApplicant:			Phon	9:	
General Contractor:			Phon	9:	
Plans Examiner:			Phon	9:	
HERS Rater.			Phon	9:	
HERS Provider:			HER	Registration Number	
OVERALL REQUIREMENTS					YES NO
Is Plan Examiner's checklist available?					
All compliance documents completed, signed an	d registered with	nonresid	lential registry	(when required):	
NRCC (Certificate of Compliance - most curre	ent, if revised from	n plan re	view)		
NRCI (Certificates of Installation)					
NRCA (Certificates of Acceptance)					
NRCV (Certicates of Verification - HERS) regi	istered with a HEF	RS provi	der		
Building front orientation matches site plan					
Floor area (ff) of conditioned versus uncondition	ied spaces match	es appro	wed planset		
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Resources: ACE Forms Tool

Or Interprive energy code ace - com/2013-forms-ace-tool-non-residential/?slippedRegistration=1
Energy Code Ace - forms-ace-2013-non-residential Al-1 Which Energy Code Compliance Option will you use? • Prescriptive • Performance • Prescriptive AL-4 Are you performing an alteration, addition, or combination of the two? • Alteration • Addition • Both Prescriptive AL-5 What type of system are you altering or adding? [Click all that apply]
Energy Code Ace - forms-ace-2013-non-residential Al-1 Which Energy Code Compliance Option will you use? • Prescriptive • Performance • Prescriptive AL-4 Are you performing an alteration, addition, or combination of the two? • Alteration • Addition • Both Prescriptive AL-5 What type of system are you altering or adding? [Click all that apply]
Al-1 Which Energy Code Compliance Option will you use? · Prescriptive · Performance · Performance · Prescriptive Al-4 Are you performing an alteration, addition, or combination of the two? · Alteration · Alteration · Alteration · Both · Prescriptive Al-5 What type of system are you altering or adding? [Click all that apply]
Prescriptive Performance Prescriptive AL-4 Are you performing an alteration, addition, or combination of the two? Alteration Alteration Addition Both Prescriptive AL-5 What type of system are you altering or adding? [Click all that apply]
Performance C O C Prescriptive AL-4 Are you performing an alteration, addition, or combination of the two? · Alteration · Aldelion · Both · Prescriptive AL-5 What type of system are you altering or adding? [Click all that apply]
port Prescriptive AI-4 Are you performing an alteration, addition, or combination of the two? · Alteration · · Addition · · Both · Prescriptive AI-5 What type of system are you altering or adding? [Click all that apply]
Addition C Both C Prescriptive AI-5 What type of system are you altering or adding? [Click all that apply]
Addition C Both C Prescriptive AI-5 What type of system are you altering or adding? [Click all that apply]
Both C Prescriptive AI-5 What type of system are you altering or adding? [Click all that apply]
C Prescriptive AI-5 What type of system are you altering or adding? [Click all that apply]
3
3
Water Heating
 Electrical Distribution
Prescriptive AL-6 Will this addition be greater than 10,000 square feet?
• Yes
• No
c c
Performance AI-4 Are you performing an alteration, addition, or combination of the two?
Alteration
Addition
Both
0
Performance AI-5 What type of system are you altering or adding? [Click all that apply]
L HVAC
Water Heating
Envelope
Covered Processes
one



Nonresidential Data Registry status update

- Effective January 1, 2015 <u>all</u> nonresidential forms must be registered (§10-103)
 - Contingent upon approval of a nonresidential data registry
- To date, no such registry has been approved
 - > This means that registration is not required at this time
- No application has been submitted as of yet to review



In Summary

- Forms are required for most "building" projects to demonstrate compliance with the Energy Standards
- NRCC forms are required at permit, on the plans, and are verified by the Plans Examiner
- NRCI, NRCA, and NRCV forms are required at Final Inspection and are verified by the Field Inspector
- NRCA-LTI and NRCA-LTO forms must be completed/signed by a certified ATT
- All forms will have to be registered with a nonresidential data registry when one is approved



QUESTIONS...

About Nonresidential Forms?

