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DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

MEMORANDUM

DATE: October 19, 2012

TO: All Building Officials

FROM: Cindy Davis, Director State Building Codes Office

SUBJECT: Virginia Energy Assessment & Code Compliance Program Recap

The Energy Assessment and Compliance program conducted by the Virginia State Building Codes Office began on April 30, 2011 and ran thru April 30, 2012, with a 2-month extension that ended June 30th of this year.

Twenty localities* volunteered to assist the State Building Codes Office with the facilitation of gathering data in an effort to benchmark compliance as it related to the requirements of the 2009 International Energy Conservation Code, required by the Department of Energy. For your use and information, we have attached the data** collected and checklists*** utilized during these assessments, to this memo.

Without the cooperation and collaborative efforts of each of the 20 localities, this program and the subsequent results would not have been possible. Directly due to their efforts, we now have a real world, accurate benchmark of where the Commonwealth of Virginia stands, as it relates to what information is being incorporated into the plans and how the energy related components are being installed, as required by the 2009 IECC. This information affords us an opportunity to provide input into training needs and curriculum, be proactive in the enforcement of the IECC and most importantly, puts us ahead of most states regarding the 90% compliance requirement that DOE has stipulated by the year 2017.

At the 2012 VBCOA Fall conference, we were pleased to recognize the 20 localities for their cooperation, collaborative efforts and partnership with the Department of Housing and Community Development during this program. All eyes are on Virginia. That's a positive thing as Virginia continues to be a leader in the code arena.

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Moving forward, we aim to continue collaborative partnerships with all localities across the Commonwealth as we carry out our goals in educating and training of code enforcement personnel, design professionals, contractors and our stakeholders. This success will result in Virginia continuing to be a leader on the national level in the enforcement of the IECC, and achieving the goal of 90% compliance by or before 2017.

The State Building Code Office will continue to provide assessments and/or assistance to localities with interest in these efforts. Please contact Larry Brock, either by phone or email at 804-786-1157 or larry.brock@dhcd.virginia.gov.

- * See Appendix A
- ** See Appendix B
- *** See Appendix C

DHCD State Building Code Office
Virginia Energy Assessment & Codes Compliance Program Summary
October 2012

Appendix A

Participating Localities:

Accomack County
Albemarle County
Arlington County
Buchanan County
Chesterfield County
Culpeper County
City of Fairfax
Fairfax County
Greensville County
Hanover County
Henrico County
Isle of Wight County
James City County
King George County
City of Martinsville
City of Newport News
City of Norfolk
Roanoke County
Spotsylvania County
City of Virginia Beach

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Appendix B

Results of the Virginia Energy Assessment & Code Compliance Program:

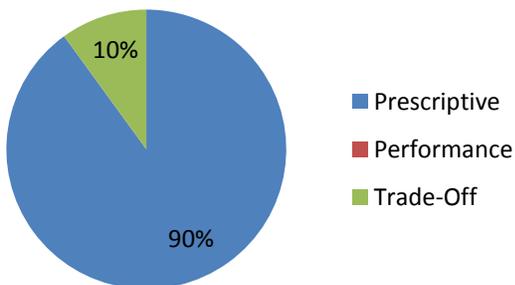
Survey Questions:

To start, each locality completed a survey intended to provide the SBCO with information that will be utilized in an effort to assist in the development of training and other educational opportunities specifically related to energy code compliance, for all code enforcement personnel, in the Commonwealth of Virginia. A sample of these questions included:

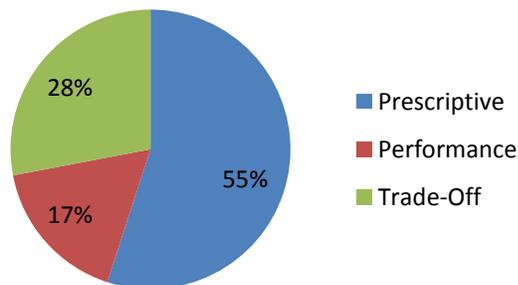
What methods are used as a basis for documenting compliance?

See the charts below for the compliance method chosen, for both residential and commercial projects, including new projects and additions/renovations to those projects.

**Residential
Compliance Approach**



**Commercial
Compliance Approach**



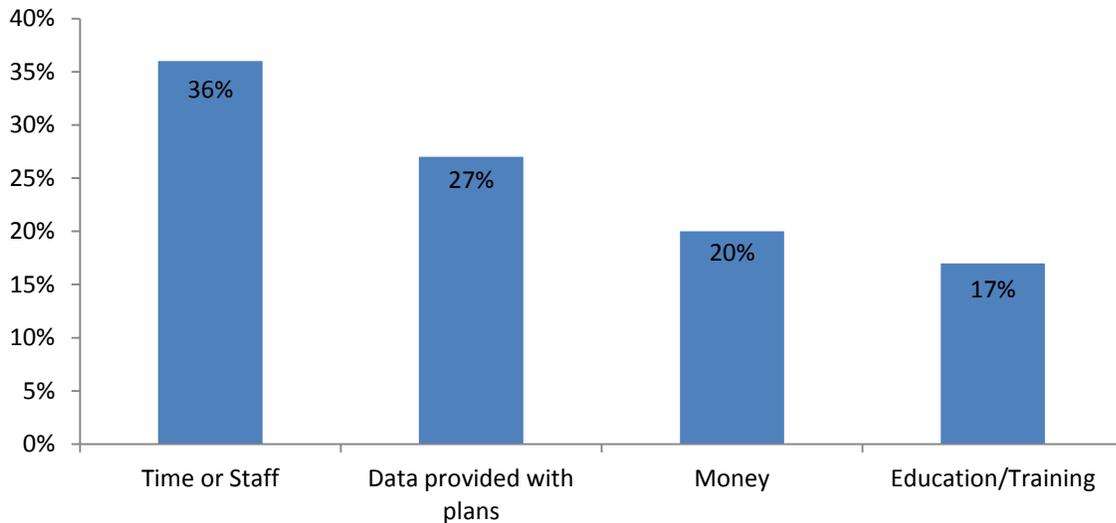
*Note: REScheck and COMcheck are considered trade-off methods.

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What limitations impede the ability to enforce the energy code?

The response to this question was predominately the lack of time or staff. Other responses are identified in the bar graph below:

Limitations that impede ability to enforce the IECC



How many hours are spent performing a residential energy plan review?

For **residential** projects, the average time to perform energy plan reviews: **40 minutes**
For **commercial** projects, the average time to perform energy plan reviews: **1.3 hours**

Energy Assessment:

For the data collection aspect of the assessment, checklists*** developed by DOE were utilized by DHCD staff to gather the data. Using these checklists helped to provide consistency in the onsite inspections.

Data for this assessment was gathered from a total of **145** projects from **4** populations:

The breakdown was:

- 61 New Residential Projects
- 43 New Commercial Projects
- 17 Additions/Renovations- Residential
- 24 Additions/Renovations- Commercial

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The data collected was entered into an online software program, called Score & Store, which calculated a percentage for compliance in each of the 4 populations, to include all 145 projects.

The final results of our assessment are as follows:



The data collected identifies areas of compliance and assists us in identifying areas for improvement. Using this information to develop training, curriculum and outreach initiatives for code officials, contractors and design professionals, it is possible that Virginia will achieve 90% compliance with the 2012 IECC, even before the 2017 deadline, allowing Virginia to continue in its role as a leader in energy code compliance.

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Virginia Energy Assessment & Codes Compliance Program Summary
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Appendix C

Score and Store



Score + Store

Commercial Building Data Collection Checklist
2009 International Energy Conservation Code

Building ID: _____ Climate Zone: _____

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

State: _____ County: _____ Jurisdiction: _____

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software (if used): _____ Above-Code Program: _____

Building Use: Office Warehouse/Storage Education/School Lodging/Hotel/Motel Restaurant/Dining/Fast Food
 Retail/Mercantile High-Rise Residential Healthcare Public Assembly/Religious Other

Building Ownership: State-owned Local Government-owned National Account Speculative Private Other

Foundation Type: Below-Grade Slab Floor Over Unconditioned Space

Project Type: New Building Existing Building Addition Existing Building Renovation Valuation (If Renovation):\$ _____

2009 IECC Section #	Plan Review	Complies?	Comments/Assumptions
103.2 [PR1] ¹	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed. Performance compliance approach submitted for buildings with vertical fenestration area >40% or skylight area >3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.2 [PR3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior and exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior and exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

General building information only required if different than above

Building ID: _____

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software (if used): _____ Above-Code Program: _____

2009 IECC Section #	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
502.2.4 [FO1] ¹	Below-grade wall insulation R-value.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [FO2] ¹	Below-grade wall insulation installed per manufacturer's instructions.		If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.2.6 [FO3] ¹	Slab edge insulation R-value.	R-_____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R-_____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [FO4] ¹	Slab edge insulation installed per manufacturer's instructions.		If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.2.6 [FO5] ¹	Slab edge insulation depth/length.	_____ ft	_____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.4.5 [FO9] ³	Freeze protection and snow/ice melting system sensors for future connection to controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software (if used): _____ Above-Code Program: _____

2009 IECC Section #	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
502.4.1, 502.4.2 [FR1] ³	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	_____ cfm/ft ²	_____ cfm/ft ²	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.4.7 [FR4] ³	Vestibules are installed where building entrances separate conditioned space from the exterior. Doors have self-closing devices.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.3.2 [FR8] ¹	Vertical fenestration U-factor.	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.3.2 [FR9] ¹	Skylight fenestration U-factor.	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.3.2 [FR10] ¹	Vertical fenestration SHGC value.	SHGC:_____	SHGC:_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.3.2 [FR11] ¹	Skylight SHGC value.	SHGC:_____	SHGC:_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.1.3 [FR12] ²	Fenestration products rated in accordance with NFRC.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.1.3 [FR13] ¹	Fenestration products are certified as to performance. Labels or certificates provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.3.2, 502.4.1, 502.4.2 [FR14] ²	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-_____ <input type="checkbox"/> Swinging <input type="checkbox"/> Nonswinging	U-_____ <input type="checkbox"/> Swinging <input type="checkbox"/> Nonswinging	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

General building information only required if different than above

Building ID: _____

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software (if used): _____ Above-Code Program: _____

2009 IECC Section #	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
504.5 [PL1] ²	Service hot-water piping systems insulated. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.3 [PL2] ³	Temperature controls installed on service water heating systems <=110 °F for intended use serving dwelling units and <=90 °F serving other occupancies.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.6 [PL3] ¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.4 [PL4] ³	Heat traps installed on non-circulating storage water tanks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software (if used): _____ Above-Code Program: _____

2009 IECC Section #	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
503.2.3 [ME1] ²	HVAC equipment efficiency verified.	Efficiency: _____	Efficiency: _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
Table 503.2.3 (3) [ME2] ³	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.4.5 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.4.5, 503.2.4.4 [ME4] ³	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.5.1 [ME6] ¹	Demand control ventilation provided for spaces >500 ft ² and >40 people/1000 ft ² occupant density and served by systems with air side economizer, auto modulating outside air damper control or design airflow >3,000 cfm.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.7 [ME8] ²	HVAC ducts and plenums insulated.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.8 [ME9] ²	HVAC piping insulation thickness.	_____ in.	_____ in.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.7.1 [ME10] ²	Ducts and plenums sealed based on static pressure and location.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.7.1.3 [ME11] ³	Ductwork operating >3 in. water column is air leakage tested.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.3.1, 503.4.1 [ME12] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, and high-limit shut-off and integrated economizer control.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.4.5, 503.2.4.4 [ME13] ²	Return air and outdoor air dampers meet minimum air leakage requirements.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.3.1 [ME14] ¹	Means provided to relieve excess outside air during economizer operation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.5 [ME17] ¹	Zone controls can limit simultaneous heating and cooling and sequence heating and cooling to each zone.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

2009 IECC Section #	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
503.4.3.1 [ME50] ²	Three-pipe hydronic systems using a common return for hot and chilled water are not used.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.3.2 [ME51] ²	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15 °F, allow operation in one mode for at least 4 hours before changeover, and have rest controls to limit heating and cooling supply temperature to <=30 °F.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.3.3 [ME18] ²	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.9.1 [ME41iecc] ³	Air outlets and zone terminal devices have means for air balancing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.9.2 [ME42iecc] ³	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.10.1 [ME52] ²	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.10.2 [ME21] ²	HVAC fan motors not larger than the first available motor size greater than the bhp.	bhp: _____	bhp: _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.2 [ME22] ²	VAV fan motors >=10 hp to be driven by variable speed drive, have a vane-axial fan with variable pitch blades, or have controls or devices to limit fan motor demand.	<input type="checkbox"/> VSD <input type="checkbox"/> Vane axial fan <input type="checkbox"/> Other	<input type="checkbox"/> VSD <input type="checkbox"/> Vane axial fan <input type="checkbox"/> Other	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.2 [ME24] ²	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.3.5 [ME26] ³	Reduce flow in pumping systems of any size to multiple chillers or boilers when others are shut down.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.3.4 [ME27] ³	Temperature reset by representative building loads in pumping systems >10 hp for chiller and boiler systems >300,000 Btu/h.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.3.3.3 [ME28] ³	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.4 [ME29] ³	Fan systems with motors >=7.5 hp associated with heat rejection equipment to have capability to operate at 2/3 of full-speed and auto speed controls to control the leaving fluid temperature or condensing temperature/pressure of heat rejection device.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.6 [ME30] ¹	Exhaust air energy recovery on systems >=5,000 cfm and 70% of design supply air.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.4.6 [ME31] ³	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water in 24/7 facility, water cooled systems reject >6 MMBtu, SHW load >=1 MMBtu.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

2009 IECC Section #	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
503.2.11 [ME34] ³	Unenclosed spaces that are heated use only radiant heat.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.4.4 [ME35] ¹	Hot gas bypass on cooling systems limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.2 [ME36] ²	Service water heating equipment meets efficiency requirements.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software (if used): _____ Above-Code Program: _____

2009 IECC Section #	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
505.2.2.2 [EL1] ²	Automatic lighting control to shut off all building lighting installed in buildings >5,000 ft ² .	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.2.1 [EL2] ²	Independent lighting control installed per approved lighting plans and all manual control readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.2.2.1 [EL10iecc] ¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.2.2.3 [EL11iecc] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.2.3 [EL12iecc] ³	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.2.4 [EL3] ²	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.2.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.3 [EL5] ³	Ballasted one and three lamp fixtures with >30 W/lamp have two lamp tandem wired ballasts when >=2 fixtures in same space on same control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.4 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.6.1 [EL7] ¹	Exterior grounds lighting over 100 W provides >60 lm/W unless on motion sensor or fixture is exempt from scope of code or from external LPD.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software (if used): _____ Above-Code Program: _____

2009 IECC Section #	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
502.4.3 [IN1] ¹	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.2.1 [IN2] ¹	Roof R-value. For some roof systems, verification may need to occur during Framing Inspection.	R-_____ <input type="checkbox"/> Above deck <input type="checkbox"/> Metal <input type="checkbox"/> Attic	R-_____ <input type="checkbox"/> Above deck <input type="checkbox"/> Metal <input type="checkbox"/> Attic	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [IN3] ¹	Roof insulation installed per manufacturer's instructions.		If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.2.3 [IN6] ¹	Above-grade wall insulation R-value.	R-_____ <input type="checkbox"/> Mass <input type="checkbox"/> Metal <input type="checkbox"/> Steel <input type="checkbox"/> Wood	R-_____ <input type="checkbox"/> Mass <input type="checkbox"/> Metal <input type="checkbox"/> Steel <input type="checkbox"/> Wood	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [IN7] ¹	Above-grade wall insulation installed per manufacturer's instructions.		If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.2.5 [IN8] ¹	Floor insulation R-value.	R-_____ <input type="checkbox"/> Mass <input type="checkbox"/> Steel <input type="checkbox"/> Wood	R-_____ <input type="checkbox"/> Mass <input type="checkbox"/> Steel <input type="checkbox"/> Wood	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [IN9] ¹	Floor insulation installed per manufacturer's instructions.		If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.1.1, 303.1.1.1 [IN10] ²	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2.1 [IN14] ²	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.2.1 [IN17] ³	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software (if used): _____ Above-Code Program: _____

2009 IECC Section #	Final Inspection	Complies?	Comments/Assumptions
502.4.6 [F11] ¹	Weatherseals installed on all loading dock cargo doors in all zones.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.4.1 [F12] ²	Heating and cooling to each zone is controlled by a thermostat control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.4.2 [F13] ²	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.4.3.1 [F121] ³	HVAC systems equipped with at least one automatic shutdown control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.4.3.2 [F122] ³	Setback controls allow automatic restart and temporary operation as required for maintenance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.4.1.1 [F15] ³	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
502.4.8 [F120iecc] ³	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
503.2.2 [F121iecc] ³	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.3 [F111] ³	Public lavatory faucet water temperature <=110 °F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.5 [F119iecc] ²	Insulate automatic circulating hot water systems and 1 st eight feet of non-circulating systems without integral heat traps.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.7.1 [F113] ³	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.7.3 [F114] ²	Pool covers are provided for heated pools and pools heated to >90 °F have a cover >=R-12.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
504.7.2 [F115] ³	Time switches are installed on all pool heaters and pumps.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

2009 IECC Section #	Final Inspection	Complies?	Comments/Assumptions
503.2.9.3 [F117] ³	Furnished O&M manuals for electrical power systems and equipment.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.5 [F118] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
505.6 [F119] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:



Score + Store

Residential Data Collection Checklist
2009 International Energy Conservation Code Climate Zone 4

Building ID: _____ Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Subdivision: _____ Lot #: _____

State: _____ County: _____ Jurisdiction: _____

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software Used: _____ Above-Code Program: _____

Building Type: 1-and 2-Family, Detached: 1-and 2-Family Dwellings Modular Townhouse

Multifamily: Apartment Condominium

Foundation Type: Basement Slab Conditioned Crawl Space Floor Over Unconditioned Space

Project Type: New Building Existing Building Addition Existing Building Renovation

2009 IECC Section #	Pre-Inspection/Plan Review	Prescriptive Code Value	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.2 [PR1] ¹	Construction drawings and documentation sufficiently demonstrates energy code compliance for the building envelope.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.2, 403.7 [PR3] ¹	Construction drawings and documentation sufficiently demonstrates energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the commercial code.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads per ACCA Manual J or other approved methods.		Heating: Btu/hr _____ Cooling: Btu/hr _____	Heating: Btu/hr _____ Cooling: Btu/hr _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software Used: _____ Above-Code Program: _____

2009 IECC Section #	Foundation Inspection	Prescriptive Code Value	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1 [FO1] ¹	Slab edge insulation R-value.	Unheated: R-10 Heated: R-15	R-_____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R-_____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2, 402.2.8 [FO2] ¹	Slab edge insulation installed per manufacturer's instructions.			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1 [FO3] ¹	Slab edge insulation depth/length.	2 ft	_____ ft	_____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1 [FO4] ¹	Conditioned basement wall insulation R-value. Where internal insulation is used, verification may need to occur during Insulation Inspection. Not required in warm-humid locations in Climate Zone 3.	Continuous: R-10	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [FO5] ¹	Conditioned basement wall insulation installed per manufacturer's instructions.			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.7 [FO6] ¹	Conditioned basement wall insulation depth from top of wall.	10 ft or to basement floor	_____ ft	_____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.9 [FO7] ¹	Unvented crawl space wall insulation R-value.	Continuous: R-10 Cavity: R-13	R-_____ R-_____	R-_____ R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [FO8] ¹	Unvented crawl space wall insulation installed per manufacturer's instructions.			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.9 [FO9] ¹	Unvented crawl space continuous vapor retarder installed over exposed earth, joints overlapped by 6 in. and sealed, extending at least 6 in. up and attached to the wall.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.9 [FO10] ¹	Unvented crawl space wall insulation depth from top of wall.	To finished grade + 24 in. vertical and/or horizontal	_____ in.	_____ in.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2.1 [FO11] ²	Exposed foundation insulation protection.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.8 [FO12] ²	Snow melt controls.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software Used: _____ Above-Code Program: _____

2009 IECC Section #	Framing / Rough-In Inspection	Prescriptive Code Value	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.4 [FR1] ¹	Door U-factor.	U-0.35	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] ¹	Glazing U-factor (area-weighted average).	U-0.35 (0.48 max)	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.3.2, 402.3.3, 402.5 [FR3] ¹	Glazing SHGC value (area-weighted average).	N/A	SHGC:_____	SHGC:_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.3.3, 402.5 [FR5] ¹	Skylight U-factor.	U-0.6 (0.75 max)	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.3.3, 402.5 [FR6] ¹	Skylight SHGC value.	N/A	SHGC:_____	SHGC:_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.1.3 [FR7] ¹	SHGC values are determined in accordance with the NFRC test procedure or taken from the default table.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1 [FR10] ¹	Mass wall exterior insulation R-value. If more than 1/2 of the insulation is on the wall interior, the interior insulation requirement applies and verification may need to occur during Insulation Inspection.	R-5	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [FR11] ¹	Mass wall exterior insulation installed per manufacturer's instructions.			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.3.5 [FR8] ¹	Sunrooms enclosing conditioned space have a maximum fenestration U-factor of 0.50 in Climate Zones 4-8. New glazing separating the sunroom from conditioned space must meet code requirements.	U-0.5	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.3.5 [FR9] ¹	Sunrooms enclosing conditioned space have a maximum skylight U-factor of 0.75 in Climate Zones 4-8.	U-0.75	U-_____	U-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

2009 IECC Section #	Framing / Rough-In Inspection	Prescriptive Code Value	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.4.4 [FR20] ¹	Fenestration that is not site built is listed and labeled as meeting AAMA/WDMA/CSA 101/I.S. 2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate <= 2.0 cfm leakage at 75 Pa.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.1 [FR12] ¹	Supply ducts in attics are insulated to R-8. All other ducts in unconditioned spaces or outside the building envelope are insulated to R-6. Not applicable if all systems are ductless.	Attic Supply: R-8 Other: R-6	R-____ R-____	R-____ R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.2 [FR13] ¹	All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are sealed.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.3 [FR15] ³	Building cavities are not used as ducts or plenums.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to R-3.	R-3	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4 [FR18] ²	Circulating service hot water pipes are insulated to R-2.	R-2	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software Used: _____ Above-Code Program: _____

2009 IECC Section #	Insulation Inspection	Prescriptive Code Value	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ²	All installed insulation labeled or installed R-values provided.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.5, 402.2.6 [IN1] ¹	Floor insulation R-value.	Wood: R-19 Steel: R-19+R-6 in 2x6 or R-19+R-12 in 2x8 or 2x10	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2, 402.2.6 [IN2] ¹	Floor insulation installed per manufacturer's instructions, and in substantial contact with the underside of the subfloor.			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.4, 402.2.5 [IN3] ¹	Wall insulation R-value. If this is a mass wall with at least 1/2 of the wall insulation on the wall exterior, use FR10 and mark this N/A.	Wood: R-13 Mass: R-10 Steel: R-13+R-5; R-15+R-4; R-21+R-3; R-0+R-10	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [IN4] ¹	Wall insulation installed per manufacturer's instructions.			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.11 [IN8] ¹	Sunroom wall insulation has a minimum R-value of R-13. New walls separating the sunroom from conditioned space must meet code requirements.	R-13	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [IN9] ¹	Sunroom wall insulation installed per manufacturer's instructions.			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [IN11] ¹	Sunroom ceiling insulation installed per manufacturer's instructions.			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.11 [IN10] ¹	Sunroom ceiling minimum insulation R-value of R-19 in Climate Zones 1-4, and R-24 in Climate Zones 5-8.	R-19	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Date: _____ Name of Evaluator(s): _____

Building Contact (optional): Name: _____ Phone: _____ Email: _____

Building Name: _____ Address: _____ Conditioned Floor Area: _____ ft²

Compliance Approach (check all that apply): Prescriptive Trade-Off Performance

Compliance Software Used: _____ Above-Code Program: _____

2009 IECC Section #	Final Inspection Provisions	Prescriptive Code Value	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2 [F11] ¹	Ceiling insulation R-value.	Wood: R-38 Steel Truss: R-49; R-38+R-3 Steel Joist: R-49	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.1.1.1, 303.2 [F12] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			If complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.3 [F13] ¹	Attic access hatch and door insulation >=R-value of the adjacent assembly.		R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.2, 402.4.2.1 [F117] ¹	Building envelope tightness verified by blower door test result of <7 ACH at 50 Pa. This requirement may instead be met via visual inspection, in which case verification may need to occur during Insulation Inspection.	ACH 50 < 7	ACH 50 = _____	ACH 50 = _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.3 [F18] ²	Wood-burning fireplaces have gasketed doors and outdoor combustion air.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2.2 [F14] ¹	Duct tightness via post-construction with maximum leakage of 8 cfm to outdoors, or 12 cfm across systems. For rough-in tests, verification may need to occur during Framing Inspection, with maximum leakage of 6 cfm across systems and 4 cfm without air handler.	Post-Construction To Outdoors: 8 cfm Across System: 12 cfm Rough-In To Outdoors: 4 cfm Across System: 6 cfm	_____ cfm	_____ cfm	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6 [F15] ¹	Heating and cooling equipment type and capacity as per plans.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.1 [F19] ²	Programmable thermostats installed on forced air furnaces.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.2 [F110] ²	Heat pump thermostat installed on heat pumps.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4 [F111] ²	Circulating service hot water systems have automatic or accessible manual controls.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.9.1 [F112] ³	Readily accessible switch on heaters for swimming pools.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

2009 IECC Section #	Final Inspection Provisions	Prescriptive Code Value	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.9.2 [F119] ³ 	Timer switches on pool heaters and pumps are present.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.9.3 [F120] ³ 	Heated swimming pools have a cover. Covers on pools heated over 90 °F are insulated to R-12.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
404.1 [F16] ¹ 	50% of lamps in permanent fixtures are high efficacy lamps.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
401.3 [F17] ² 	Compliance certificate posted.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.3 [F118] ³ 	Manufacturer manuals for mechanical and water heating equipment have been provided.				<input type="checkbox"/> Complies <input type="checkbox"/> Does Not Comply <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions: