

## AGENDA

### UNIFORM BUILDING CODE COMMISSION MECHANICAL ADVISORY COMMITTEE

December 9, 2014, 2:00  
Room 474  
Heber M Wells Bldg  
160 E 300 S Salt Lake City, UT

*This agenda is subject to change up to 24 hours prior to the meeting.*

#### **ADMINISTRATIVE BUSINESS:**

Sign attendance sheet

1. Approval of the minutes from the November 4, 2014 meeting

#### **DISCUSSION ITEMS**

2. Review 2015 IMC and current amendments along with mechanical portion of 2015 IRC

Next Scheduled Meeting: January 13, 2014

If you do not plan on attending this meeting, please call Sharon at 530-6163 or email at [ssmalley@utah.gov](mailto:ssmalley@utah.gov) or [dansjones@utah.gov](mailto:dansjones@utah.gov).



In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Dave Taylor, ADA Coordinator, at least three working days prior to the meeting. Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84115, Phone 530-6628 or toll-free in Utah only 866-275-3675.

UNIFORM BUILDING CODE COMMISSION  
MECHANICAL ADVISORY COMMITTEE

November 4, 2014  
Heber M Wells Building Room 474  
160 E 300 S  
Salt Lake City, Utah  
MINUTES

STAFF:

Dan S. Jones, Bureau Manager  
Sharon Smalley, Board Secretary

MECHANICAL ADVISORY COMMITTEE:

David Wilson	Tyler Lewis
Trent Hunt	Brent Ursenbach (excused)
Dennis Thatcher	Roger Hamlet
Randy Beckstead (excused)	Kevin Bell (excused)

David Wilson acted as chairman for this meeting.

MINUTES

A motion was made by Roger Hamlet to approve the minutes from the September 9, 2014 meeting as written. The motion was seconded by Dennis Thatcher and passed unanimously.

REVIEW 2015 IMC AND CURRENT  
AMENDMENTS

Those present reviewed the 2015 IMC and the residential portion of this code. Dennis Thatcher gave a report on his review of the mechanical portion of the residential code. Dennis Thatcher and Roger Hamlet will draft an amendment for Section M2427 of the 2015 IRC. This committee has asked Brent Ursenbach to address this issue on the national level.

A motion was made by Dennis Thatcher to modify the current amendment for Section M1411.6 by changing the section number to M1411.8. The motion was seconded by Roger Hamlet and passed unanimously.

A motion was made by Roger Hamlet to keep the current amendment for Section G2401.2. The motion was seconded by Tyler Lewis and passed unanimously.

The recommendation for Sections M1601.1.1 and M1901.3 was tabled until the next meeting.

# Building Energy Codes Program

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## Commercial Code Change Proposals for the 2015 IECC

This page provides archival documentation relative to DOE participation in the 2015 IECC. For official results, visit the [ICC web site](#).

### DOE Proposals for the IECC

The U.S. Department of Energy (DOE) supports the International Energy Conservation Code (IECC) by participating in the code development process administered by the International Code Council (ICC). As a participant in this process, DOE considers and evaluates concepts to be submitted as proposed changes to the IECC ("code").

DOE participates in the IECC development process by:

1. Developing code change proposals for submission to the ICC
2. Gathering public input on DOE code change proposals from interested parties prior to submitting to the ICC
3. Conducting necessary technical analyses to document the validity of DOE code change proposals
4. Participating in the ICC code development hearings

A [Notice](#) is published in the *Federal Register* further outlining DOE participation in the ICC code development process. Interested stakeholders may also choose to receive [updates](#) on DOE code development activities.

### DOE Proposal Development

DOE seeks to advance energy efficiency in the IECC by strengthening the code where cost-effective, and improving the criteria to be more easily understood, applied, implemented and enforced. Prior to submitting proposed code changes ("proposals") to the ICC, DOE publishes draft proposals that it has developed, along with documentation of concepts, for public review and comment. DOE will not provide responses to individual comments, but will consider any and all comments timely submitted in developing final proposals. DOE draft proposals, along with additional concepts still under consideration, are further developed based on stakeholder feedback received. Final proposals are posted for public viewing prior to submitting to the ICC.

### Submitting Comments on DOE Proposals

In the current code cycle, the ICC will be considering revisions to the 2012 IECC which will result in the 2015 IECC. In order to allow adequate time to incorporate feedback prior to the ICC submission deadline, interested parties are asked to submit any and all comments on DOE initial concepts, draft code change proposals, and public comments by the deadlines specified below. Early feedback is appreciated in order to maximize the opportunity for revisions and enhancements.

#### Timeline

- Feedback on DOE concepts and draft proposals due **October 19, 2012**
- DOE code change proposals posted for public viewing **early December, 2012**
- **ICC deadline for submission of proposals for the 2015 IECC is January 3, 2013**
- Feedback on draft DOE public comments due **June 28, 2013**
- DOE public comments posted for public viewing **mid-July, 2013**
- **ICC deadline for submission of public comments for the 2015 IECC is July 15, 2013**

#### Instructions

Comments on DOE proposals for the 2015 IECC and IEBC can be submitted by email to [EnergyCodeDevelopment2012BC0030@ee.doe.gov](mailto:EnergyCodeDevelopment2012BC0030@ee.doe.gov).

*All submissions received must include the agency name (U.S. DOE), docket number (EERE-2012-BT-BC-0030), and any/all applicable DOE concept numbers or ICC reference numbers (see table below) in the subject line of the message.*

### DOE Technical Analysis

In developing proposals for submission to the ICC, DOE conducts a series of analyses to evaluate energy savings and economic impacts of its potential revisions, as applicable. However, many proposals submitted to the ICC do not require analysis as they represent minor corrections or alignments between the code language itself, or referenced standards, changes to the format of the code, or have no cost impact. Where appropriate, DOE conducts life cycle cost analysis as described in [Commercial Energy and Cost Analysis Methodology](#). DOE is not able to provide technical assistance at the request of outside parties, but reserves the right to conduct analysis in support of proposals DOE is considering for submission to the ICC. While DOE cannot enter into joint proposals (outside of proposals submitted jointly with another federal agency), DOE supports efficiency proposals from the perspective of its own analysis.

DOE [references all analysis and supporting documentation as required by the ICC](#). Analysis performed by DOE or its contractors for the purpose of developing proposals should be considered on a technical basis, and does not represent an endorsement of any particular individual or organization. DOE also publishes the results of its analysis, along with supporting energy simulation models, for review and use by outside parties. Any interested party wishing to review or build-upon the DOE analysis can access it via [Development](#).

### DOE Participation in the ICC Code Development Hearings

At ICC hearings, DOE communicates its opinion on proposals as follows: DOE will defend its proposals. To the extent that DOE has prepared a technical analysis of a proposal other than a DOE proposal, consistent with the discussion above, DOE may present the results of the analysis. Again, presentation of technical reviews does not constitute an endorsement of any proposal. DOE may also recognize a proposal to the extent that the proposal or provisions within the proposal are the same as a DOE proposal or provisions within a DOE proposal. DOE may alter its proposal based on information it obtains at the code hearings and may publish amendments to its proposals for public review and comment at: [Development](#). Final amendments to DOE proposals are posted at the same web address for public viewing prior to submitting to the ICC.

**Ex Parte Communications**

DOE anticipates that it or its contractors may be contacted regarding code concepts, ideas or change proposals through phone, mail, or email. While DOE code change proposals to the IECC are not regulations, DOE will follow [ex parte communication policy](#) for such communications. Guidance on ex parte communications was published on January 21, 2009 (74 FR 4685). Note that such communications will be reflected in the public docket consistent with the ex parte guidance.

**Commercial Proposals for the 2015 IECC**

To foster review, proposals are organized by type of change:

- Proposals that increase energy efficiency (CA)
- Proposals that extend flexibility and usability of the code (CB)
- Proposals applicable to the IEBC (E)

[Residential proposals DOE is considering for the 2015 IECC.](#)

The final proposals linked from this page are as submitted to ICC. In some cases the proposals have been modified in the ICC process, and official proposals can be viewed at the [ICC website](#). The order in which the proposals are presented should not be construed to represent any prioritization of the proposals.

Where a formal analysis is not required, notes rather than a link are provided in the analysis column. Draft and final proposals, as well as supporting analysis files, are added as they become available.

Also note that proposals that would extract criteria from American Society of Heating, Refrigerating, and Air-conditioning Engineers / Illuminating Engineers Society (ASHRAE/IES) 90.1-2010 or any published addenda to that standard would be addressed by ASHRAE pursuant to procedures that guide ASHRAE involvement in development of model codes and standards.

Draft and final proposals are available to view/download as separate individual files from the tables below, or as a complete package:

- [iecc2015\\_Commercial\\_draft.zip](#)
- [iecc2015\\_Commercial\\_final.zip](#)
- [iecc2015\\_Commercial\\_public\\_draft.zip](#)
- [iecc2015\\_Commercial\\_public\\_final.zip](#)

Proposals that increase energy efficiency (CA)						
DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	SUPPORTING ANALYSIS	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
CA-1	<b>Simplify Opaque Envelope Tables (C402).</b> Simplify the opaque envelope tables to include only one requirement for each assembly type (e.g., walls, roof, and floor).	None	N/A	N/A	N/A	N/A
CA-2	<b>Change Interior Design Conditions (C403.2.1).</b> Increase the minimum design cooling temperature and decrease the maximum heating design temperature.	None	N/A	N/A	N/A	N/A
CA-3 (CE210)	<b>Enhance Requirements for Demand Controlled Ventilation (C403.2.5.1).</b> Reduce thresholds associated with space size and design occupancy density at which demand controlled ventilation is required.	<a href="#">CA-3 Draft Proposal</a>	<a href="#">CA-3 Final Proposal</a>	<i>Discussed in proposal</i>	None	N/A
CA-4 (CE217)	<b>Increase Duct and Plenum Insulation (C403.2.7).</b> Increase all minimum insulation levels by R-2 or an appropriate level for climate and duct location.	None	<a href="#">CA-4 Final Proposal</a>	<a href="#">CA-4 Supporting Analysis</a>	None	N/A
CA-5a	<b>Commission the Entire Building (C408).</b> Increase commissioning scope beyond Heating, Ventilation and Air Conditioning (HVAC) and lighting to also include the building envelope and service water heating systems, and provide detailed provisions for each of them. Develop a simplified process for buildings under 25,000 square feet in floor area. Include provisions to allow for building commissioning compliance verification to	None	N/A	N/A	N/A	N/A

DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	SUPPORTING ANALYSIS	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
	be performed through special inspections using approved third parties.					
CA-5b (CE284)	<b>Commission Service Water Heating (C408).</b> Increase HVAC commissioning scope to also include the building service water heating systems.	<a href="#">CA-5b Draft Proposal</a>	<a href="#">CA-5b Final Proposal</a>	Discussed in proposal	None	N/A
CA-6	<b>Interior Lighting Allowance Reduction Package (C406.3).</b> Add package to provide for an additional reduction in lighting power density (LPD) by 10% over minimum code.	None	N/A	N/A	N/A	N/A
CA-7	<b>Commercial Buildings to meet ASHRAE/IES 90.1 (C101.4).</b> Replace all of the IECC Commercial provisions with a reference to ASHRAE/IES 90.1.	<a href="#">CA-7 Draft Proposal</a>	None	N/A	N/A	N/A
CA-7b (CE195)	<b>Commercial Complex HVAC Systems to meet ASHRAE/IES 90.1 (C403.4)</b> Replace all of the IECC commercial complex HVAC system provisions with a reference to ASHRAE/IES 90.1 Section 6. Simple system prescriptive and mandatory requirements will remain in the IECC.	None	<a href="#">CA-7b Final Proposal</a>	Discussed in proposal	None	N/A
CA-8 (CE73)	<b>Reference Appendix G from ASHRAE/IES 90.1 as Performance Path (C401.2/C407).</b> Replace Section C407 with a singular reference to ASHRAE/IES 90.1 for the criteria applicable to the performance path to compliance, and require compliance be based on a 26% reduction in energy cost for the proposed design over the standard design building.	<a href="#">CA-8 Draft Proposal</a>	<a href="#">CA-8 Final Proposal</a>	Discussed in proposal	None	N/A
CA-9 (CE164)	<b>Continuous Air Barrier Compliance Path Continuity (C402.4).</b> Modify the continuous air barrier requirements so all three compliance options are comparable.	<a href="#">CA-9 Draft Proposal</a>	<a href="#">CA-9 Final Proposal</a>	Discussed in proposal	<a href="#">CE164 Draft Comment</a>	<a href="#">CE164 Public Comment</a>
CA-10	<b>Envelope Commissioning (new).</b> Add provisions covering commissioning of the building envelope.	<a href="#">CA-10 Draft Proposal</a>	None	N/A	N/A	N/A
CA-11	<b>Increase Scope for Additions and Alterations (C101.4.3).</b> Increase the scope of what must meet the provisions of the IECC for additions, rehabilitations, renovations or repairs (e.g., reducing the exceptions in that area).	<a href="#">CA-11 Draft Proposal</a>	None	N/A	N/A	N/A
CA-12	<b>Re-Roofing (C101.4.3).</b> Add criteria to ensure adding insulation is required at the time a building is re-roofed.	<a href="#">CA-12 Draft Proposal</a>	None	N/A	N/A	N/A
CA-13	<b>Outcome-Based Compliance Path (C401.1).</b> Add an outcome-based path for office buildings from 20,000 to 50,000 square feet in floor area.	None	N/A	N/A	N/A	N/A
CA-14	<b>Multifamily Residential Classification (C101 and C202).</b> Revise the definition of residential building so only attached and detached one and two family dwellings and townhouses are considered residential, and all others commercial.	None	N/A	N/A	N/A	N/A
CA-15	<b>Small Simple Building Compliance Path (C402).</b> Develop a simplified approach for	None	N/A	N/A	N/A	N/A

DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	SUPPORTING ANALYSIS	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
	envelope, mechanical, service water heating, and lighting that will apply to small simple buildings.					
CA-16	<b>Rewrite Lighting Criteria (C405.2).</b> Completely rewrite Section C405.2 to be better organized, clarify intent, enhance energy efficiency, and provide a better basis for the ICC International Green Construction Code (IgCC) lighting provisions.	None	N/A	N/A	N/A	N/A
CA-17	<b>Water Heating. (C404).</b> Require use of more efficient service water heating, including solar, heat recovery, condensing water heater, or heat pump water heaters for buildings with significant hot water usage (e.g., hospitals, restaurants, dormitories, hotels, laundries, fitness centers, apartment buildings). Consider system size, system efficiency, etc. as part of the proposal. Include alternative path for point-of-use water heating sources for low use fixtures that provide hot water (e.g., lavatory sinks).	None	N/A	N/A	N/A	N/A
CA-18 (CE249)	<b>Water-side Economizer for Non-Fan Cooling Systems. (C403.4.3).</b> Require water-side economizer for water-cooled chilled water systems for non-fan systems (e.g. radiant cooling, passive chilled beam systems), and for systems with small individual fan systems served by chilled water (e.g., fan coils, possibly chilled beams).	None	<a href="#">CA-18 Final Proposal</a>	<a href="#">CA-18 Supporting Analysis</a>	None	N/A
Proposal by others (CE241)	<b>Eliminate Distinction Between Simple and Complex HVAC Systems.</b> Without changing requirements, removes the distinction between simple and complex systems and presents prescriptive HVAC requirements all together. This proposal was disapproved by committee, but approved by floor action. It will cause an unintended weakening of economizer requirements and undoes an economizer clarification in DOE's approved proposal CE249. This comment applies the corrective language from CE249 to CE241.	N/A	N/A	N/A	<a href="#">CE241 Draft Comment</a>	<a href="#">CE241 Public Comment</a>
CA-19	<b>Limited Application of Air-Cooled Chillers. (C403.4.8 new).</b> Require buildings with 300 tons or greater peak cooling load to have no more than 100 tons served by air-cooled systems. Include exceptions for high-efficiency air-cooled systems and systems with thermal storage.	<a href="#">CA-19 Draft Proposal</a>	None	N/A	N/A	N/A
CA-20 (CE146)	<b>Toplit Daylighting Area Threshold. (C405.2.2.3).</b> Reduce the area threshold for daylighting control requirements in skylit areas to 1000 square feet.	<a href="#">CA-20 Draft Proposal</a>	<a href="#">CA-20 Final Proposal</a>	<a href="#">CA-20 Supporting Analysis</a>	None	N/A
CA-21	<b>Increase Visible Transmittance (VT). (C303.1.3).</b> Increase VT requirements to improve daylighting effectiveness.	<a href="#">CA-21 Draft Proposal</a>	None	N/A	N/A	N/A
CA-22	<b>Lighting Controls. (C405.2.2.2).</b> Require occupancy sensors be installed in all buildings and act as the primary lighting control for interior lighting.	None	N/A	N/A	N/A	N/A

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Proposals that extend flexibility and usability of the code (CB)

DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
CB-1	<b>Compliance Checklist (Resource Appendix A (new)).</b> Add a new Resource Appendix to the IECC that contains a checklist, forms and instructions to facilitate compliance documentation and verification.	<a href="#">CB-1 Draft Proposal</a>	None	N/A	N/A
CB-2	<b>Add Exempt Buildings (C104.1).</b> Add exempted project types for buildings such as greenhouses that do not appear to be capable of complying or add criteria that specifically apply to them.	<a href="#">CB-2 Draft Proposal</a>	None	N/A	N/A
CB-3 (CE38, Part 1)	<b>Inspections (C104).</b> Improve/enhance details governing inspections of construction.	<a href="#">CB-3 Draft Proposal</a>	<a href="#">CB-3 Final Proposal</a>	<a href="#">CE38 Draft Comment</a>	<a href="#">CE38 Public Comment</a>
CB-4 (CE69)	<b>Scope to Include Building Sites (C401.1).</b> Include building sites in the scope of the IECC (consistent with C101.2).	<a href="#">CB-4 Draft Proposal</a>	<a href="#">CB-4 Final Proposal</a>	<a href="#">CE69 Draft Comment</a>	<a href="#">CE69 Public Comment</a>
CB-5	<b>Fenestration Product Rating (C303.1.3).</b> Remove default values for fenestration thermal properties (U-factor, Solar Heat Gain Coefficient (SHGC) and Visible Transmittance (VT)) resulting in a requirement that all fenestration have those properties determined by an accredited independent laboratory and labeled and certified by the manufacturer.	<a href="#">CB-5 Draft Proposal</a>	None	N/A	N/A
CB-6 (CE153)	<b>Fenestration Haze Factor (C402.3.2.2).</b> Clarify the testing requirements for haze factor to reference Procedure A of ASTM D 1003 or other ASTM standards as applicable.	<a href="#">CB-6 Draft Proposal</a>	<a href="#">CB-6 Final Proposal</a>	<a href="#">CE153 Draft Comment</a>	<a href="#">CE153 Public Comment</a>
CB-7 (CE57)	<b>Add Definition for Rooftop Monitor (C202).</b> Provide a definition of the term <i>Rooftop Monitor</i> as used in Section C402.3.2.1 (4).	<a href="#">CB-7 Draft Proposal</a>	<a href="#">CB-7 Final Proposal</a>	None	N/A
CB-8 (CE59, Part 1)	<b>Application of Fenestration Provisions (C202).</b> Clarify application of thermal provisions (U-factor or SHGC) for fenestration materials or products installed at an angle greater than 0 up to and including 30 degrees from vertical.	<a href="#">CB-8 Draft Proposal</a>	<a href="#">CB-8 Final Proposal</a>	<a href="#">CE59 Draft Comment</a>	<a href="#">CE59 Public Comment</a>
CB-9 (CE118)	<b>Roof Solar Reflectance and Thermal Emittance (C402.2.1.1 and C202).</b> Edit to better present the criteria and add a definition for the term "low slope roof".	<a href="#">CB-9 Draft Proposal</a>	<a href="#">CB-9 Final Proposal</a>	None	N/A
CB-10 (CE114)	<b>Skylight Curbs Insulation Exemption (C402.2.1).</b> Clarify the language that provides when a skylight curb can be exempted from meeting the requirements for insulating the curb.	<a href="#">CB-10 Draft Proposal</a>	<a href="#">CB-10 Final Proposal</a>	None	N/A
CB-11 (CE124)	<b>Define Wall Types (C402.2.2, C402.2.2.1, C402.2.2.2 and C202).</b> Move the text indicating how to determine wall classification and replace current text with a formal definition of each wall type.	<a href="#">CB-11 Draft Proposal</a>	<a href="#">CB-11 Final Proposal</a>	<a href="#">CE124 Draft Comment</a>	<a href="#">CE124 Public Comment</a>
CB-12 (CE155)	<b>Fenestration U-Factor and SHGC Provisions (C402.3.3).</b> Clarify the provisions in the code.	<a href="#">CB-12 Draft Proposal</a>	<a href="#">CB-12 Final Proposal</a>	None	N/A
CB-13 (CE163)	<b>Area weighted U-Factor (C402.3.4).</b> Clarify the provisions in the code.	<a href="#">CB-13 Draft Proposal</a>	<a href="#">CB-13 Final Proposal</a>	None	N/A
CB-14 (CE126)	<b>Above-Grade Walls (C402.2.3).</b> Clarify the provisions in the code.	<a href="#">CB-14 Draft Proposal</a>	<a href="#">CB-14 Final Proposal</a>	None	N/A
CB-15 (CE167)	<b>Continuous Air Barriers (C402.4.2).</b> Clarify the language pertaining to the sealing of penetrations in the building envelope.	<a href="#">CB-15 Draft Proposal</a>	<a href="#">CB-15 Final Proposal</a>	<a href="#">CE167 Draft Comment</a>	<a href="#">CE167 Public Comment</a>
CB-16 (CE128)	<b>Below-Grade Wall Insulation (C402.2.4).</b> Clarify how insulation is to be installed and how deep. The term "installed in or continuously on" is potentially	<a href="#">CB-16 Draft Proposal</a>	<a href="#">CB-16 Final Proposal</a>	None	N/A

DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
	confusing in that it infers that the insulation could be inside the wall but not necessarily continuous. Also clarify where the depth of burial measurements are to be made.				
CB-17 (CE130)	<b>Floor Insulation (C402.2.5).</b> Revise the code to ensure that insulation applied in floors over outside air or unconditioned spaces is in contact with the underside of the floor deck above.	<a href="#">CB-17 Draft Proposal</a>	<a href="#">CB-17 Final Proposal</a>	None	N/A
CB-18 (CE133)	<b>Opaque Doors (C402.2.7).</b> Clarify when doors are considered part of the opaque wall and subject to thermal requirements for the wall, and when doors are fenestration and subject to those requirements.	<a href="#">CB-18 Draft Proposal</a>	<a href="#">CB-18 Final Proposal</a>	None	N/A
CB-19 (CE134)	<b>Radiant Heating Panel Insulation (C402.2.8).</b> Clarify that panels installed in building thermal envelope assemblies must be insulated per the requirements of the assembly in which they are installed. Require insulation of at least R-3.5 on the non-radiant surface when installed in interior assemblies. Refer to the other applicable sections of the code for insulating heated slabs.	<a href="#">CB-19 Draft Proposal</a>	<a href="#">CB-19 Final Proposal</a>	None	N/A
CB-20 (CE149)	<b>Minimum Skylight Fenestration Area (C402.3.2).</b> Clarify the language pertaining to requiring skylights in roofs covering areas greater than 10,000 square feet.	<a href="#">CB-20 Draft Proposal</a>	<a href="#">CB-20 Final Proposal</a>	<a href="#">CE149 Draft Comment</a>	<a href="#">CE149 Public Comment</a>
CB-21 (CE139)	<b>Daylighting Controls for Skylights (C402.3, C402.3.1.2 and C402.3.1.1 (2)).</b> Clarify daylighting control provisions and locate in a more appropriate subsection.	<a href="#">CB-21 Draft Proposal</a>	<a href="#">CB-21 Final Proposal</a>	None	N/A
CB-22 (CE183)	<b>Access Doors and Openings (C402.4.4).</b> Clarify the components covered are subject to air leakage provisions as components of the building thermal envelope, and provide a distinction between these doors and other doors that are already covered within the scope of fenestration assemblies.	<a href="#">CB-22 Draft Proposal</a>	<a href="#">CB-22 Final Proposal</a>	<a href="#">CE183 Draft Comment</a>	<a href="#">CE183 Public Comment</a>
CB-23 (CE184)	<b>Consolidate Damper Provisions (C402.4.5).</b> Consolidate all provisions associated with leakage rates, sealing, dampers, etc. of mechanical system openings, vents, grills, etc. in one place in the code.	<a href="#">CB-23 Draft Proposal</a>	<a href="#">CB-23 Final Proposal</a>	None	N/A
CB-24 (CE193)	<b>Recessed Lighting Sealing (C402.4.8).</b> Clarify the language for sealing recessed lighting that is located in the building thermal envelope.	<a href="#">CB-24 Draft Proposal</a>	<a href="#">CB-24 Final Proposal</a>	None	N/A
CB-25 (CE196)	<b>Reference ASHRAE 183 for Thermal Load Calculations (C403.2.1).</b> Simplify the language requiring heating and cooling load calculations to simply reference ASHRAE 183.	<a href="#">CB-25 Draft Proposal</a>	<a href="#">CB-25 Final Proposal</a>	None	N/A
CB-26 (CE198)	<b>Equipment and System Sizing (C403.2.2).</b> Delete the words "and system" from the title as the provisions are written to apply to the output capacity of the equipment that provides heating or cooling functions.	<a href="#">CB-26 Draft Proposal</a>	<a href="#">CB-26 Final Proposal</a>	<a href="#">CE198 Draft Comment</a>	<a href="#">CE198 Public Comment</a>
CB-27 (CE202)	<b>Chiller Exception (C403.2.3.1).</b> Clarify the language on the type of systems that need not comply with the requirements.	<a href="#">CB-27 Draft Proposal</a>	<a href="#">CB-27 Final Proposal</a>	None	N/A
CB-28	<b>Chiller "Listed/Labeled" Compared to "Certified"(C403.2.3.2.).</b> Clarify the code on the issue of "listed" and "labeled" equipment compared to "certified".	<a href="#">CB-28 Draft Proposal</a>	None	N/A	N/A
CB-29	<b>Shutoff Damper Controls (C403.2.4.4).</b> Cover only the types of controls that are required for dampers because other damper requirements are covered elsewhere in the code	<a href="#">CB-29 Draft Proposal</a>	None	N/A	N/A
CB-30 (CE223)	<b>Low-Pressure Duct Systems (C403.2.7.1.1).</b> Clarify that continuously welded and locked construction methods for duct systems meets the code, and delete	<a href="#">CB-30 Draft Proposal</a>	<a href="#">CB-30 Final Proposal</a>	<a href="#">CE223 Draft Comment</a>	<a href="#">CE223 Public Comment</a>

DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
	text indicating what must be provided on the drawings because that is already covered in C103.2.				
CB-31 (CE225)	<b>High Pressure Duct Systems (C403.2.7.1.3).</b> Consistency in presentation of criteria for duct systems.	<a href="#">CB-31 Draft Proposal</a>	<a href="#">CB-31 Final Proposal</a>	None	N/A
CB-32 (CE235)	<b>Allowable Fan Floor Horsepower (C403.2.10.1).</b> Editorial clarification and simplification.	<a href="#">CB-32 Draft Proposal</a>	<a href="#">CB-32 Final Proposal</a>	None	N/A
CB-33 (CE237)	<b>Motor nameplate horsepower exceptions (C403.2.10.2).</b> Simplify exceptions by replacing with a positive statement of requirements.	<a href="#">CB-33 Draft Proposal</a>	<a href="#">CB-33 Final Proposal</a>	None	N/A
CB-34 (CE303)	<b>Exterior Lighting Controls (C405.2.4).</b> Simplify code provisions.	<a href="#">CB-34 Draft Proposal</a>	<a href="#">CB-34 Final Proposal</a>	<a href="#">CE303 Draft Comment</a>	<a href="#">CE303 Public Comment</a>
CB-35 (CE309)	<b>Total Connected Interior Lighting Power (C405.5.1).</b> Simplify to present as an equation what is now text that guides how the connected lighting power is calculated.	<a href="#">CB-35 Draft Proposal</a>	<a href="#">CB-35 Final Proposal</a>	<a href="#">CE309 Draft Comment</a>	<a href="#">CE309 Public Comment</a>
CB-36 (CE312)	<b>Sleeping Unit Lighting Control (C405.5.1, Exception 1.2).</b> Simplify by removing redundant text.	<a href="#">CB-36 Draft Proposal</a>	<a href="#">CB-36 Final Proposal</a>	<a href="#">CE312 Draft Comment</a>	<a href="#">CE312 Public Comment</a>
CB-37 (CE320)	<b>Exterior Lighting Zone (Table C405.6.2 (1)).</b> Clarify to indicate that Zone 3 includes all areas that are not classified as lighting zone 1, 2, or 4.	<a href="#">CB-37 Draft Proposal</a>	<a href="#">CB-37 Final Proposal</a>	None	N/A
CB-38 (CE322)	<b>Dwelling Unit Electric Metering (C405.7).</b> Simplify to indicate that the dwelling units in Use Group R-2 buildings must be separately metered.	<a href="#">CB-38 Draft Proposal</a>	<a href="#">CB-38 Final Proposal</a>	None	N/A
CB-39 (CE335)	<b>Additional Efficiency Options (C406.1, 406.2 and 406.3).</b> Simplify and clarify the code.	<a href="#">CB-39 Draft Proposal</a>	<a href="#">CB-39 Final Proposal</a>	None	N/A
Proposal by others (CE337)	<b>Additional Efficiency Options (C406.1, 406.2 and 406.3).</b> This public comment adds clarifying language from CE335 (CB-39) to an approved proposal in this section.	N/A	N/A	<a href="#">CE337 Draft Comment</a>	<a href="#">CE337 Public Comment</a>
CB-40 (CE355)	<b>Acceptance of Commissioning Report (C408.2.4.1).</b> Revise the commissioning provision so that buildings cannot be considered for a final inspection (do not pass the mechanical inspection) until the owner indicates in writing they have the required commissioning report.	<a href="#">CB-40 Draft Proposal</a>	<a href="#">CB-40 Final Proposal</a>	<a href="#">CE355 Draft Comment</a>	<a href="#">CE355 Public Comment</a>
CB-41 (CE353)	<b>Mechanical Commissioning Scope (C408.2).</b> Simplify and clarify the exceptions to required commissioning.	<a href="#">CB-41 Draft Proposal</a>	<a href="#">CB-41 Final Proposal</a>	None	N/A
CB-42 (CE352)	<b>Mechanical Commissioning Order of Events (C408.2).</b> Clarify the order in which commissioning events take place.	<a href="#">CB-42 Draft Proposal</a>	<a href="#">CB-42 Final Proposal</a>	None	N/A
CB-43 (ADM51, Parts I II)	<b>Alteration Definition (C202).</b> Clarify alterations including changes to HVAC, SHW or lighting systems involving extension, addition or change to arrangement, type or purpose.	<a href="#">CB-43 Draft Proposal</a>	<a href="#">CB-43 Final Proposal</a>	None	N/A
CB-44	<b>Repair Definition (C202).</b> Revise term to be specific as to intent and meaning and so it can be readily applied in compliance verification.	<a href="#">CB-44 Draft Proposal</a>	None	N/A	N/A
CB-45 (CE206)	<b>Snow Melt Provisions (C403.2.4.5).</b> Align snow melt provisions with expansion of IECC scope to include building site and delete unneeded language.	<a href="#">CB-45 Draft Proposal</a>	<a href="#">CB-45 Final Proposal</a>	None	N/A

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### Commercial Proposals for the IEBC

The order in which the concepts are presented should not be construed to represent any prioritization of the concepts. Draft and final proposals will be added as they become available.

Draft and final proposals are available to view/download as separate individual files from the table below, or as a complete package:

[iebc\\_draft.zip](#)

[iebc\\_final.zip](#)

Commercial Proposals for the IEBC (E)

DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
E-1 (ADM51, Part I)	<b>Alteration Definition (202).</b> Expands definition of "alteration" to include retrofits and changes to energy systems.	<a href="#">E-1 Draft Proposal</a>	<a href="#">E-1 Final Proposal</a>	None	N/A
E-2 (ADM59)	<b>Repair Definition (202).</b> Expands definition of "repair" to include retrofits and changes to energy systems.	<a href="#">E-2 Draft Proposal</a>	<a href="#">E-2 Final Proposal</a>	None	N/A
E-3	<b>Addition Energy Requirements (402.1).</b> Requires additions considered on their own to meet the provisions of the IECC.	<a href="#">E-3 Draft Proposal</a>	None	N/A	N/A
E-4	<b>Alteration Energy Requirements (403.1).</b> Requires alterations considered on their own to meet the provisions of the IECC.	<a href="#">E-4 Draft Proposal</a>	None	N/A	N/A
E-5	<b>Fenestration Energy Requirements (406.1).</b> Requires fenestration in repairs, alterations or additions to meet the provisions of the IECC.	<a href="#">E-5 Draft Proposal</a>	None	N/A	N/A
E-6	<b>Occupancy Change Requirements (407.5).</b> A change in occupancy would require the building to either meet the provisions of the IECC or have no increase in connected power load.	<a href="#">E-6 Draft Proposal</a>	None	N/A	N/A
E-7 (EB13)	<b>Repair Energy Requirements (403.1).</b> Requires equipment installed during repairs to meet the provisions of the IECC and insulation to be upgraded to current IECC requirements when structural components are exposed.	<a href="#">E-7 Draft Proposal</a>	<a href="#">E-7 Final Proposal</a>	None	N/A
E-8 (EB56)	<b>Demand Increase Requirements (1011.1).</b> A change in occupancy resulting in increased connected power load would require the building to meet the provisions of the IECC.	<a href="#">E-8 Draft Proposal</a>	<a href="#">E-8 Final Proposal</a>	None	N/A
E-9	<b>Performance Path (1401.5 &amp; 1401.6).</b> Exempt upgrade of alterations, additions, changes in occupancy, or repairs to meet the provisions of the 2012 IECC when a registered design professional documents energy performance in conformance to the IECC performance provisions.	<a href="#">E-9 Draft Proposal</a>	None	N/A	N/A
E-10	<b>Documentation (new at 106.2.5).</b> Requires plans and specifications to provide detailed information needed to verify compliance with energy efficiency provisions.	<a href="#">E-10 Draft Proposal</a>	None	N/A	N/A
E-11	<b>Insulation and Air Leakage Inspection (new at 109.3.5).</b> Provides for inspection of insulation fill and air barriers while components are still accessible for inspection.	<a href="#">E-11 Draft Proposal</a>	None	N/A	N/A

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## Residential Code Change Proposals for the 2015 IECC

This page provides archival documentation relative to DOE participation in the 2015 IECC. For official results, visit the [ICC web site](#).

### DOE Proposals for the IECC

The U.S. Department of Energy (DOE) supports the International Energy Conservation Code (IECC) by participating in the code development process administered by the International Code Council (ICC). As a participant in this process, DOE considers and evaluates concepts to be submitted as proposed changes to the IECC ("code").

DOE participates in the IECC development process by:

1. Developing code change proposals for submission to the ICC
2. Gathering public input on DOE code change proposals from interested parties prior to submitting to the ICC
3. Conducting necessary technical analyses to document the validity of DOE code change proposals
4. Participating in the ICC code development hearings

A [Notice](#) is published in the *Federal Register* further outlining DOE participation in the ICC code development process. Interested stakeholders may also choose to receive [updates](#) on DOE code development activities.

### DOE Proposal Development

DOE seeks to advance energy efficiency in the IECC by strengthening the code where cost-effective, and improving the criteria to be more easily understood, applied, implemented and enforced. Prior to submitting proposed code changes ("proposals") to the ICC, DOE publishes draft proposals that it has developed, along with documentation of concepts, for public review and comment. DOE will not provide responses to individual comments, but will consider any and all comments timely submitted in developing final proposals. DOE draft proposals, along with additional concepts still under consideration, are further developed based on stakeholder feedback received. Final proposals are posted for public viewing prior to submitting to the ICC.

### Submitting Comments on DOE Proposals

In the current code cycle, the ICC will be considering revisions to the 2012 IECC which will result in the 2015 IECC. In order to allow adequate time to incorporate feedback prior to the ICC submission deadline, interested parties are asked to submit any and all comments on DOE initial concepts, draft code change proposals, and public comments by the deadlines specified below. Early feedback is appreciated in order to maximize the opportunity for revisions and enhancements.

#### Timeline

- Feedback on DOE concepts and draft proposals due **October 19, 2012**
- DOE code change proposals posted for public viewing **early December, 2012**
- *ICC deadline for submission of proposals for the 2015 IECC is **January 3, 2013***
- Feedback on draft DOE public comments due **June 28, 2013**
- DOE public comments posted for public viewing **mid-July, 2013**
- *ICC deadline for submission of public comments for the 2015 IECC is **July 15, 2013***

#### Instructions

Comments on DOE proposals for the 2015 IECC and IEBC can be submitted by email to [EnergyCodeDevelopment2012BC0030@ee.doe.gov](mailto:EnergyCodeDevelopment2012BC0030@ee.doe.gov).

*All submissions received must include the agency name (U.S. DOE), docket number (EERE-2012-BT-BC-0030), and any/all applicable DOE concept numbers or ICC reference numbers (see table below) in the subject line of the message.*

### DOE Technical Analysis

In developing proposals for submission to the ICC, DOE conducts a series of analyses to evaluate energy savings and economic impacts of its potential revisions, as applicable. However, many proposals submitted to the ICC do not require analysis as they represent minor corrections or alignments between the code language itself, or referenced standards, changes to the format of the code, or have no cost impact. Where appropriate, DOE conducts life cycle cost analysis for IECC proposals as described in [Residential Energy and Cost Analysis Methodology](#). DOE is not able to provide technical assistance at the request of outside parties, but reserves the right to conduct analysis in support of proposals DOE is considering for submission to the ICC. While DOE cannot enter into joint proposals (outside of proposals submitted jointly with another federal agency), DOE supports efficiency proposals from the perspective of its own analysis.

DOE references all analysis and supporting documentation as required by the ICC. Analysis performed by DOE or its contractors for the purpose of developing proposals should be considered on a technical basis, and does not represent an endorsement of any particular individual or organization. DOE also publishes the results of its analysis, along with supporting energy simulation models, for review and use by outside parties. Any interested party wishing to review or build-upon the DOE analysis can access it via [Development](#).

### DOE Participation in the ICC Code Development Hearings

At ICC hearings, DOE communicates its opinion on proposals as follows: DOE will defend its proposals. To the extent that DOE has prepared a technical analysis of a proposal other than a DOE proposal, consistent with the discussion above, DOE may present the results of the analysis. Again, presentation of technical reviews does not constitute an endorsement of any proposal. DOE may also recognize a proposal to the extent that the proposal or provisions within the proposal are the same as a DOE proposal or provisions within a DOE proposal. DOE may alter its proposal based on information it obtains at the code hearings and may publish amendments to its proposals for public review and comment at: [Development](#). Final amendments to DOE proposals are posted at the same web address for public viewing prior to submitting to the ICC.

**Ex Parte Communications**

DOE anticipates that it or its contractors may be contacted regarding code concepts, ideas or change proposals through phone, mail, or email. While DOE code change proposals to the IECC are not regulations, DOE will follow [ex parte communication policy](#) for such communications. Guidance on ex parte communications was published on January 21, 2009 (74 FR 4685). Note that such communications will be reflected in the public docket consistent with the ex parte guidance.

**Residential Proposals for the 2015 IECC**

To foster review, concepts are organized by type of change:

- Proposals that increase energy efficiency (RA)
- Proposals that extend flexibility and usability of the code (RB)

[Commercial proposals DOE is considering for the 2015 IECC.](#)

The final proposals linked from this page are as submitted to ICC. In some cases the proposals have been modified in the ICC process, and official proposals can be viewed at the [ICC website](#). The order in which the proposals are presented should not be construed to represent any prioritization of the proposals.

Where a formal analysis is not required, notes rather than a link are provided in the analysis column. Draft and final proposals, as well as supporting analysis files, are added as they become available.

Draft and final proposals are available to view/download as separate individual files from the tables below, or as a complete package:

- [iecc2015\\_Residential\\_draft.zip](#)
- [iecc2015\\_Residential\\_final.zip](#)
- [iecc2015\\_Residential\\_public\\_draft.zip](#)
- [iecc2015\\_Residential\\_public\\_final.zip](#)

Proposals that increase energy efficiency (RA)						
DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	SUPPORTING ANALYSIS	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
RA-1	Fenestration U-factor and SHGC. U-0.40 to 0.35 (CZ 2), U-0.32 to 0.20 (CZ 4-8); SHGC-0.25 to 0.2 or 0.15 (CZ 1-3). The lower SHGC would not apply if the orientation is advantageous or appropriate shading devices in place.	<a href="#">RA-1 Draft Proposal</a>	None	N/A	N/A	N/A
RA-2 (RE64)	Roof/ceiling resistance to heat gain (R402.2). Require either radiant barrier or cool roof in the hottest climate zones.	<a href="#">RA-2 Draft Proposal</a>	<a href="#">RA-2 Final Proposal</a>	Discussed in proposal	<a href="#">RE64 Draft Comment</a>	<a href="#">RE64 Public Comment</a>
RA-3	Heat recovery ventilation (R403.5). Require heat recovery in colder climate zones when mechanical ventilation is required.	<a href="#">RA-3 Draft Proposal</a>	None	N/A	N/A	N/A
RA-4	Domestic water heating (R403.4). Require a desuperheater, tankless water heater, heat pump water heater, solar water heater, or improved energy factor on a standard water heater.	<a href="#">RA-4 Draft Proposal</a>	None	N/A	N/A	N/A
RA-5	Lighting Controls (R404.1). Require occupancy sensors or other automatic controls for lighting in selected areas of the home (closets, bathrooms, garages, outdoor lighting, etc.).	<a href="#">RA-5 Draft Proposal</a>	None	N/A	N/A	N/A

Proposals that extend the flexibility and usability of the code (RB)						
DOE # (ICC) IDENTIFIER	CONCEPT NAME, (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS	
RB-1	Direct performance compliance path. This would be a pure performance metric not		None	N/A	N/A	N/A

DOE # (ICC) IDENTIFIER	CONCEPT NAME. (CODE SECTION), DESCRIPTION	DRAFT PROPOSAL	FINAL PROPOSAL	DRAFT PUBLIC COMMENTS	FINAL PUBLIC COMMENTS
	referenced to any prescriptive baseline (an energy use intensity [EUI], a HERS rating, etc). Could replace the existing prescriptive and performance paths or be an alternative compliance path.				
RB-2	<b>Restoration of equipment tradeoffs (R405, R402).</b> To foster the use of systems-design concepts and whole-house analysis tools and in light of recently increased Federal minimum equipment efficiencies, restore the ability to do equipment efficiency trade-offs to the code in such a manner as to increase flexibility in compliance without compromising overall efficiency.	None	N/A	N/A	N/A
RB-3 (RE167)	<b>Correct thermal distribution system specifications in performance-path [Table R405.5.2(1)].</b> Add standard reference design specification for thermal distribution systems.	<a href="#">RB-3 Draft Proposal</a>	<a href="#">RB-3 Final Proposal</a>	None	N/A
RB-4 (CE61, Parts I&II)	<b>Addition of Broomfield County, Colorado, to county/zone list (Table R301.1).</b> Supply missing county.	<a href="#">RB-4 Draft Proposal</a>	<a href="#">RB-4 Final Proposal</a>	None	N/A
RB-5 (RE133)	<b>Elimination of ambiguity in ¾-in hot water pipe insulation requirements (R403.4.2, Table R403.4.2).</b> Modify code text to match 5-foot lower limit of Table R403.4.2.	<a href="#">RB-5 Draft Proposal</a>	<a href="#">RB-5 Final Proposal</a>	<a href="#">RE133 Draft Comment</a>	<a href="#">RE133 Public Comment</a>
RB-6	<b>Correction of section reference in Heating Systems row of performance path [Table R405.5.2(1)].</b> Change "R403 of the IECC—Commercial Provisions" to "C403...".	<a href="#">RB-6 Draft Proposal</a>	<a href="#">RB-6 Final Proposal</a>	None	N/A
RB-7 (RE63)	<b>Clarification of footnote "h" (Table R402.1.1).</b> Clarify its meaning and applicability, possibly by eliminating the footnote in favor of a more detailed textual treatment in R402.2.	<a href="#">RB-7 Draft Proposal</a>	<a href="#">RB-7 Final Proposal</a>	None	N/A
RB-8 (RE12)	<b>Addition of lighting specifications to performance path [Table R405.5.2(1)].</b> Clarify the applicability of mandatory lighting requirements to the performance path.	<a href="#">RB-8 Draft Proposal</a>	<a href="#">RB-8 Final Proposal</a>	<a href="#">RE12 Draft Comment</a>	<a href="#">RE12 Public Comment</a>
RB-9 (RE171)	<b>Addition of sunroom specifications to performance path [Table R405.5.2(1)].</b> Reference R402.2.12 and R402.3.5 to clarify tradeoff allowances.	<a href="#">RB-9 Draft Proposal</a>	<a href="#">RB-9 Final Proposal</a>	<a href="#">RE171 Draft Comment</a>	<a href="#">RE171 Public Comment</a>
RB-10 (RB100)	<b>Elimination of gap in ventilation requirements (IRC R303.4).</b> Clarify what is required when envelope leakage is exactly 5 ACH50.	<a href="#">RB-10 Draft Proposal</a>	<a href="#">RB-10 Final Proposal</a>	<a href="#">RB100 Draft Comment</a>	<a href="#">RB100 Public Comment</a>
RB-11	<b>For envelope and duct leakage testing, re-categorize maximum allowable leakage rates from mandatory to prescriptive (R402.4 and R403.2.2).</b> Allowing performance-path trade-offs for these would extend flexibility and mitigate risk associated with unexpected post-construction pressure test failures.	<a href="#">RB-11a Draft Proposal</a>  <a href="#">RB-11b Draft Proposal</a>	None  None	N/A	N/A
CB-3 (CE38, Part 2)	<b>Inspections (R104).</b> Improve/enhance details governing inspections of construction.	<a href="#">CB-3 Draft Proposal</a>	<a href="#">CB-3 Final Proposal</a>	<a href="#">CE38 Draft Comment</a>	<a href="#">CE38 Public Comment</a>
CB-8 (CE59, Part 2)	<b>Application of Fenestration Provisions (R202).</b> Clarify application of thermal provisions (U-factor or SHGC) for fenestration materials or products installed at an angle greater than 0 up to and including 30 degrees from vertical.	<a href="#">CB-8 Draft Proposal</a>	<a href="#">CB-8 Final Proposal</a>	<a href="#">CE59 Draft Comment</a>	<a href="#">CE59 Public Comment</a>
Proposal by others (RE72)	<b>For envelope leakage testing, re-categorize maximum allowable leakage rates from mandatory to prescriptive (R402.4).</b> Allowing performance-path trade-offs for these would extend flexibility and mitigate risk associated with unexpected post-construction pressure test failures.	N/A	N/A	<a href="#">RE72 Draft comment</a>	None

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