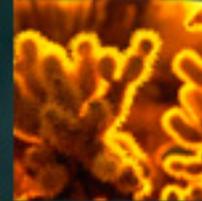




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Proposed Changes to the IECC

Selected Commercial Provisions

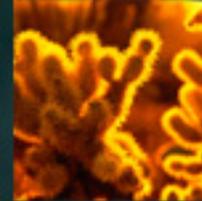
David Weitz
Director, Applied Building Science Division
Conservation Services Group

USDOE Energy Code Workshop

Denver, CO August 1, 2006



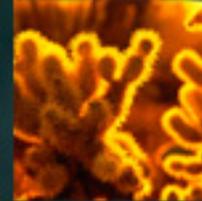
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Note: Inclusion or exclusion of proposals on this partial list does not indicate endorsement or lack of endorsement. Selection is at the sole discretion of the presenter, and does not reflect any position or interpretation of the International Code Council or the IECC development committee.



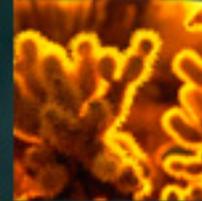
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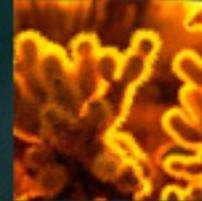
EC1	Establishes new Chapter 5 category of hi-rise residential buildings with some envelope requirements different from non-residential. New Table 502.2(3) for hi-rise residential envelope requirements.
EC3	Removes carte blanche exemption for historic buildings, and give BO authorization to limit which sections apply.
EC6	Applies LPDs when building area type changes in existing building.
EC7	Requires newly conditioned spaces to come into full compliance.
EC9	Allows AAMA rating procedure for U-factor and SHGC of "commercial" window products. (in addition to current NFRC procedures.



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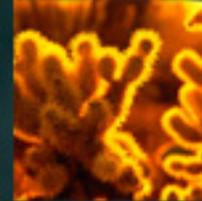
EC28	Establishes "Vapor Retarder Classes" (based on permeance,) and modifies performance requirement based on climate zones.
EC82, 84,85, 86	Introduces UA and SHGCA trade-off table and procedure for compliance without using ASHRAE when glazing exceeds limits of Table 502.3, or when if Rx values are unacceptable.
EC87	Increases selected component Rx stringency in Zones 5-8.
EC90	Increases allowable skylight area to 6% with appropriate daylighting controls.
EC91	Reintroduces WWR in Table 502.3 (30-35-40%); eliminates frame type categories.



EC92, 95	Eliminates categories of skylights (plastic vs glass); EC92 retains current plastic U-factor and eliminates SHGC requirement in all zones; EC95 retains glass U-factors with decreases in zones 1-3.
EC96	Introduces “Air Barrier” requirement with three compliance alternatives: 1) material air permeance, 2) assembly air leakage, 3) whole building air leakage.
EC97	Introduces “Air Barrier” requirement with only whole building air leakage compliance.
EC103	Raise full load and IPLV efficiencies for electric chillers, including path for Adjustable Speed Drives



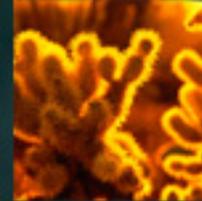
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EC104	New requirements for Demand Control Ventilation to automatically reduce outdoor air in defined spaces when actual occupancy is less than design occupancy.
EC110	Introduces new detailed commissioning requirements for mechanical systems.
EC111	Introduces ASHRAE 90.1 Commissioning requirements for HVAC systems in buildings over 50,000 sf.
EC114	Changes climate zone requirements for economizers, reducing number of zones with no requirement, and expanding number of zones with 54,000 Btu/h threshold.



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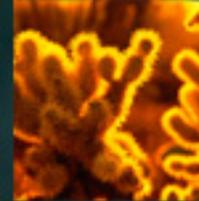
EC122	Defines "Daylight Zone" around skylights and vertical fenestration; Requires individual lighting controls for all separate daylight zones; [No requirement for auto shut-off or dimming of lights within daylight zone.]
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Complete monograph is available from ICC at:

www.iccsafe.org/cs/codes/2006-07cycle/ProposedChanges/index.html



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ICC Development Schedule

Code Development Hearings	September 20-30, 2006
Publication: "Report of the Public Hearing"	December 1, 2006
Deadline for Receipt of Public Comments	January 24, 2007
Publication of Public Comments: "Final Action Agenda"	April 6, 2007
Final Action Hearings	May 22-25, 2007 (tentative)