

Illinois Energy Code Advisory Council Residential Subcommittee
January 21, 2015 – 9:30 a.m.
Teleconference
MEETING MINUTES

In Attendance:

Subcommittee Members

David Wytmar, Groundwork, Ltd.
Don Plass, Building and Fire Code Academy
Tom Ayers, City of Rock Island
Bruce Selway, Department of Commerce & Economic Opportunity
Lisa Mattingly, CDB

Guests

Jason Huelsmann, New Tradition Homes (HBA Greater Southwestern IL)
Joseph Zimmer, Architect
Rob Schildgen, Priority Energy
Eric Lacey, Responsible Energy Code Alliance
Jerry Grant, DuPage County Plan's examiner
Mike Collignon, Green Building Coalition
Bill McHugh, CRCA
Darren Meyers, International Energy Conservation Consultants LLC
Matthew Giudice, MEEA
Jeff Mang, PIMA
Dan Hohl, AIA

Chairman Wytmar called the meeting to order at 9:40 a.m.

Chairman Wytmar made a motion to allow Mr. Huelsmann to be the proxy for Ted Schieler who was not present. This would make a quorum. Mr. Plass seconded. Motion carried.

Roll call of the Subcommittee members was taken and introduction of guests was made.

A motion was made by Chairman Wytmar to approve the December 8th meeting minutes. It was seconded by Mr. Plass. Motion carried.

Chairman Wytmar asked to start with Mr. Meyers' first amendment since this proposal retains the amendments made to the 2012 IECC.

Chairman Wytmar asked Mr. Meyers to verify that the proposals in Amendment 2 are consistent with the amendments to the 2012 IECC. Mr. Meyers said yes, but commented that the Subcommittee should allow CDB to change the highlighted dates in R101.1 to match the adoption date from JCAR. Mr. Meyers noted that additions and alterations were moved to a new chapter in 2015. He also noted that for additions if

more than 40 linear feet of duct is added the entire system including the new and old ducts must be tested. He stated that having the existing duct system tested would be very challenging. This is not recommended by Mr. Meyers.

Chairman noted some errors that need to be corrected.

Mr. Ayers joined for a short time between 9:45 and 10:00 but had to leave the call for work.

Mr. Selway joined the meeting at 10:02.

Chairman Wytmar made a motion to accept proposed Amendment 2 (pages 16 – 20) by Mr. Meyers as the Subcommittee's working document of amendments. Mr. Plass seconded. Mr. Plass said that he agreed that the section numbers should be checked. Motion passed.

Mr. Meyers explained that his proposed Amendment 3 serves to update the ventilation rates to be consistent with ASHRAE 62.2 - 2013. It increases some of the rates. He also noted that there is currently no requirement in the code for measuring airflow. Chairman Wytmar asked if there was a definition of a bedroom. Mr. Plass commented saying that there is no clear definition.

Mr. Huelsmann said this is a pretty aggressive jump in ventilation rates. Mr. Meyers explained why the ASHRAE 62.2 committee made the changes. More discussion followed. It was suggested that the formula could also be included for ventilation rates which is in Mr. Zimmer's proposal. Mr. Zimmer stated that the formula to calculate the rates is included in his proposal on page 32 of the document sent prior to the meeting. Chairman Wytmar stated that there are two formulas and asked what the difference is. The response was that one is in English system and the other is in metric.

Mr. Zimmer also asked that the formula in Section R403.6.4 Natural Infiltration Credit be included if the formula in R403.6.1.1 Ventilation Rate is included.

Chairman Wytmar made a motion to accept Mr. Meyers proposal 3 and with a modification to add the formula from 403.6.1.1 and the natural infiltration credit. Mr. Plass seconded. 3 ayes, 1 nay were heard. Motion passed. Chairman Wytmar asked that Darren combine this with his proposed Amendment 2 (pages 16 – 20).

Proposal IL IECC5-14/15 was then discussed. Mr. Meyers said that this was proposed for consistency across the state and also based on performance data from PNNL. He also mentioned that constructability would be easier. A comment was made that the payback to increase the height of the insulation is very high. Chairman Wytmar suggested that an alternative could be offered. Mr. Meyers objected to any changes and stated that the original use of the 4ft height was not based on a technical basis. Mr. Plass agreed with Mr. Meyers' amendment. A clarification was made that insulation is allowed on both the inside or outside of the wall. Mr. Schildgen made the suggestion that the insulation needs to stay at least 6 inches off the floor on the interior of the basement wall. Chairman moved that this proposal be accepted with an amendment

that interior insulation can be held six inches above the ground. Mr. Plass seconded. 3 ayes and 1 nay were heard. Motion passed.

Chairman Wytmar moved to the amendment from MEAA. This amendment proposed that the Code for residential construction change from 5 to 4 ACH's in Climate Zones 4 and 5. The Chairman asked that Mr. Guidice provide comment on this proposal. Mr. Guidice felt that the previous amendment which changed the code from 3 ACH's to 5 in 2012 wasn't made for technical reasons. He stated that there is not much change in energy efficiency between the 2012 IECC and 2015. This amendment would provide a significant energy change to a building. He provided statistics from several sources supporting this change. Rob Schildgen also commented on what his organization has seen in the field related to this amendment.

Chairman Wytmar said that he feels that enforcement is more important than changing a number. Since most builders are exceeding the requirements, he thinks keeping the ACH's as they would also provide a goodwill benefit. Mr. Selway commented about the perception that we are constantly increasing the code. He mentioned that increasing the code does not mean an increase in compliance. Mr. Huelsmann mentioned that if perception is the reason and the Subcommittee has recommended increasing the basement insulation depth from 4 feet to 10 feet then why not change to 4 ACH's from 5. Chairman Wytmar made a motion to disapprove the amendment. Mr. Selway seconded. Discussion followed. Mr. Colligan stated that he was in support of the amendment. Mr. Lacey also voiced support of the amendment. 4 ayes were heard. Motion passed.

Motion was made to adjourn by Mr. Selway. Mr. Plass seconded. Motion passed.