



MEMORANDUM

**TO: All Iowa Licensed Design Professionals
And Other Interested Parties**

FROM: W. Stuart Crine, State Building Code Commissioner

DATE: November 30, 2010

RE: Enforcement of the State Energy Code

On January 3, 2011 the Department of Public Safety, Division of State Fire Marshal, will increase the scope of its energy code plan review. Recently, the State Building Code Bureau was awarded a Community Development Block Grant through the U.S. Department of Energy to fund two positions to aid in the enforcement of the State Energy Code. These positions will develop energy code enforcement tools and provide energy code outreach to local jurisdictions. Dave Ruffcorn AIA, has been hired to become the first, State Energy Engineer, to review plans and specifications energy code compliance. The second position, has not been filled, but will inspect submitted buildings for energy code compliance.

Previously the statement of energy review was the only documentation required to show energy code compliance. Beginning on January 3, 2011, plans submitted to this office must provide additional information on the construction documents indicating that they are in compliance with the State Energy Code. REScheck, COMcheck, ASHRAE/ IES compliance reports or other equivalent documentation must be included with the plan review submittal. The plan review submittal must include the full software report and the software output file .cck/.rck, demonstrating compliance with State Energy Code requirements for the building envelope, mechanical, electrical, and plumbing systems. The submittal for the State Energy Code requirements will be for all buildings that are required to be reviewed by the State Fire Marshal's Office.

To ensure that plans are reviewed in a timely manner it is requested Design Professionals provide a means to find the values used for REScheck or COMcheck compliance reports. A Energy Code drawing or table of contents will assist in finding the data needed for review.

The proposed energy code component areas on the plans shall agree with the areas listed on the energy code compliance report. The plans shall include, but are not limited to, providing details of the following energy code components:

- Insulation materials and their R-values
- Fenestration U-factors & SHGC
- Air sealing details
- Mechanical system design criteria

- HVAC calculations
- Mechanical system and service water heating system and equipment types, sizes and efficiencies
- Economizer description
- Fan motor horsepower and controls
- Duct and pipe insulation and location
- Duct sealing method
- Equipment and system controls
- Electrical systems
 - Provide lighting and switching plans, including site lighting
 - Plans must include lighting fixture schedule with wattage and control narrative

IECC Code Books Available for Free

Through funds provided by the U.S. Department of Energy, the International Code Council is providing a free, limited time, electronic download of energy code books. The only requirement is filling out a form to receive the download link and the serial number needed to license the digital copy. Go to <http://www.iccsafe.org/store/pages/doeregistration.aspx?r=FreeIECC> to receive your own free energy code.

If you any questions regarding these issues, please feel free to contact us at (515) 725-6145 or at bcinfo@dps.state.ia.us Website: <http://www.iowabuildingcode.org>