

statements on the agenda. The Chairperson of the Committee will conduct the meeting to facilitate the orderly conduct of business. Public comment will follow the 10-minute rule.

Minutes: The NCC will prepare meeting minutes within 45 days of the meeting. The minutes will be posted on the NCC Web site at <http://www.nationalcoalcouncil.org/>.

Dated: Issued at Washington, DC, on May 11, 2012.

LaTanya R. Butler,

Acting Deputy Committee Management Officer.

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DEPARTMENT OF ENERGY

[Docket No. EERE-2011-BT-DET-0057]

RIN 1904-AC59

Updating State Residential Building Energy Efficiency Codes

AGENCY: Office of Energy Efficiency and Renewable Energy, Department of Energy.

ACTION: Notice of final determination.

SUMMARY: The Department of Energy (DOE or Department) has determined that the 2012 edition of the International Code Council (ICC) International Energy Conservation Code (IECC) (2012 IECC or 2012 edition) would achieve greater energy efficiency in low-rise residential buildings than the 2009 IECC. Upon publication of this affirmative final determination, States are required to file certification statements to DOE that they have reviewed the provisions of their residential building code regarding energy efficiency and made a determination as to whether to update their code to meet or exceed the 2012 IECC. Additionally, this Notice provides guidance to States on how the codes have changed from previous versions, and the certification process.

DATES: Certification Statements by the States must be provided by May 17, 2014.

ADDRESSES: Certification Statements must be addressed to the Buildings Technologies Program-Building Energy Codes Program Manager, U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Forrestal Building, Mail Station EE-2J, 1000 Independence Avenue SW., Washington, DC 20585-0121.

FOR FURTHER INFORMATION CONTACT: Michael Erbesfeld, U.S. Department of Energy, Office of Energy Efficiency and

Renewable Energy, Forrestal Building, Mail Station EE-2J, 1000 Independence Avenue SW., Washington, DC 20585-0121, (202) 287-1874, email: michael.erbesfeld@ee.doe.gov. For legal issues contact Kavita Vaidyanathan, U.S. Department of Energy, Office of the General Counsel, Forrestal Building, GC-71, 1000 Independence Avenue SW., Washington, DC 20585, (202) 586-0669, email: kavita.vaidyanathan@hq.doe.gov.

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I. Introduction

A. Statutory Requirements

Title III of the Energy Conservation and Production Act, as amended (ECPA), establishes requirements for the Building Energy Standards Program. (42 U.S.C. 6831-6837) Section 304(a) of ECPA provides that when the 1992 Model Energy Code (MEC), or any successor to that code, is revised, the Secretary must determine, not later than 12 months after the revision, whether the revised code would improve energy efficiency in residential buildings and must publish notice of the determination in the **Federal Register**. (42 U.S.C. 6833(a)(5)(A)) The Department, following precedent set by the ICC and the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) considers high-rise (greater than three

stories) multifamily residential buildings and hotel, motel, and other transient residential building types of any height as commercial buildings for energy code purposes. Low-rise residential buildings include one- and two-family detached and attached buildings, duplexes, townhouses, row houses, and low-rise multifamily buildings (not greater than three stories) such as condominiums and garden apartments.

If the Secretary determines that the revision would improve energy efficiency then, not later than 2 years after the date of the publication of the affirmative determination, each State is required to certify that it has compared its residential building code regarding energy efficiency to the revised code and made a determination whether it is appropriate to revise its code to meet or exceed the provisions of the successor code. (42 U.S.C. 6833(a)(5)(B)) State determinations are to be made: (1) After public notice and hearing; (2) in writing; (3) based upon findings included in such determination and upon evidence presented at the hearing; and (4) available to the public. (See, 42 U.S.C. 6833(a)(5)(C)) In addition, if a State determines that it is not appropriate to revise its residential building code, the State is required to submit to the Secretary, in writing, the reasons, which are to be made available to the public. (See, 42 U.S.C. 6833(a)(5)(C))

B. Background

The ICC's IECC establishes a national model code for energy efficiency requirements for buildings. In 1997, the Council of American Building Officials (CABO) was incorporated into the ICC and the MEC was renamed to the IECC. A previous **Federal Register** notice, 59 FR 36173, July 15, 1994, announced the Secretary's determination that the 1993 MEC increased energy efficiency relative to the 1992 MEC for residential buildings. Similarly, another **Federal Register** notice, 61 FR 64727, December 6, 1996, announced the Secretary's determination that the 1995 MEC is an improvement over the 1993 MEC. **Federal Register** notice 66 FR 1964, January 10, 2001, simultaneously announced the Secretary's determination that the 1998 IECC is an improvement over the 1995 MEC and the 2000 IECC is an improvement over the 1998 IECC. **Federal Register** notice 76 FR 42688, July 19, 2011, announced the Secretary's determination that the 2003 IECC was not a substantial improvement over its predecessor, while the 2006 and 2009 editions were a substantial improvement over its predecessors. A map depicting the

status of State residential building codes is available at: <http://www.energycodes.gov/states/maps/residentialStatus.stm>.

On October 19, 2011, **Federal Register** 76 FR 64924 announced the Secretary's preliminary determination that the 2012 edition of the IECC should receive an affirmative determination under Section 304(a) of ECPA. A thirty-day public comment period concluded on November 18, 2011.

C. Public Comments on the Preliminary Determination

DOE received four sets of public comments on the preliminary determination for the 2012 IECC. Comments were received from the Responsible Energy Code Alliance (RECA), the Natural Resources Defense Council (NRDC), and the Coalition for Fair Energy Codes (CFEC), and Pilkington North America (PNA)/AGC Glass Company North America (AGC). However, DOE notes that PNA/AGC's comment was received late. Although the comment was filed late this final determination is not contrary to any of the issues raised in the comment.

- RECA provided three general comments of support for the preliminary determination on the 2012 IECC, three specific comments on the preliminary determination, and a list of recommended next steps.

- NRDC provided two general comments supporting DOE's determination efforts and DOE's preliminary determination of the 2012 IECC, and a recommendation that DOE continue its efforts in development, adoption, and implementation of strong building energy codes.

- CFEC provided general support for the conclusion of the preliminary determination, but also raised five specific points regarding the treatment of wood products in the 2012 IECC.

Overall, a total of 18 individual comments were received. These eighteen comments may be divided into 6 major categories:

- (1) Support and Agreement—8 comments
- (2) Alternate U-factors, Codes, and Approaches—3 comments
- (3) Recommendations—3 comments
- (4) SHGC requirements in Climate Zone 4—1 comment
- (5) Performance Path—2 comments
- (6) DOE's 30% Improvement Goal for the 2012 IECC—1 comment

Support and Agreement

In their general comments, RECA, NRDC, and CFEC all expressed agreement with DOE's conclusion that the 2012 IECC on the whole, would

result in a significant improvement in energy efficiency as compared to previous versions of the IECC. Specifically, RECA stated "first and foremost, we fully agree with the Department's conclusion that the 2012 IECC represents a 'significant improvement' overall, as compared to the 2009 IECC." (RECA, No. 1 at p. 2) NRDC stated "NRDC agrees with and supports the Department's preliminary determination that the 2012 IECC saves energy compared to the 2009 IECC." (NRDC, No. 2 at p. 1) CFEC stated "we do not disagree with the overall determination contained in the Notice * * *" (CFEC, No. 1 at p. 2)

A general comment from RECA and a recommendation from NRDC expressed support for DOE efforts in adoption of and compliance with model energy codes. RECA also expressed support for DOE's intent to make the state certification process more transparent. Specifically, RECA commented "we are also encouraged by the Department's recent efforts in promoting adoption and compliance with the model energy codes nationwide, and support the Department's plans in the preliminary determination to make compliance with certification statements more transparent." (RECA, No. 3 at p. 2) NRDC stated "NRDC urges DOE to continue to take steps to promote the development, adoption, and implementation of strong building energy codes, including issuing timely code determinations." (NRDC, No. 4 at p. 2)

RECA also expressed agreement with the Department that the thermal envelope requirements of the IECC have been improved in nearly every aspect in the 2012 edition. (RECA, No. 4 at p. 3) RECA also stated that this was not just a matter of better windows and more insulation. The 2012 IECC also includes more efficient ducts and whole building leakage testing. DOE notes that these aspects of the 2012 IECC were discussed in the preliminary determination in the section entitled "Discussion of Changes in the 2012 IECC Compared with the 2009 IECC Summary" and again under "Changes in the 2012 IECC that are Estimated to Increase Energy Efficiency". DOE accepts this comment as already discussed in the preliminary determination. The discussion of changes in the 2012 IECC is also included in today's final determination.

Alternate U-factors, Codes, and Approaches

CFEC made 3 comments related to alternate U-factors, Codes, and Approaches they felt should be included in the determination.

Specifically, CFEC stated that "DOE should recognize other prescriptive wall configurations based on equivalent energy performance, calculated from the least restrictive of either the prescriptive R-value table [Table R402.1.1] or U-factor table [Table R402.1.3] in the IECC." (CFEC, No. 3 at p. 2) In response to this comment, DOE notes that the content of the 2012 IECC is the result of the ICC process. DOE also notes that this is again a matter of implementation materials rather than a subject for this determination, which is focused solely on whether the 2012 IECC improves energy efficiency relative to the 2009 IECC. One of the main pieces of support material DOE does provide is the REScheck software and alternative U-factors are handled in REScheck.

CFEC also commented that DOE should "[r]ecognize in the Determination Statement that using a $U = 0.061$ in calculations in accordance with the Total U_A alternative in Climate Zone 4 and 5 results in equivalent energy efficiency performance as it is equivalent to the U-factor derived from the prescriptive table." (CFEC, No. 4 at p. 2) In response, DOE acknowledges that there are potential differences in the U-factor and R-value tables based on construction details used in actual buildings for the 2012 IECC, but DOE notes that CFEC's comment takes issue with the content of the 2012 IECC. As noted above, the purpose of this determination is to compare the latest version of the IECC with the previous version and to determine if the latest version improves the level of energy efficiency in residential buildings over the previous version.

CFEC also commented that DOE should "[r]ecognize in the Determination Statement that a performance approach that accounts for equipment which is more efficient than federally mandated minimums may result in equivalent or better energy efficiency performance than is required by the IECC 2012." (CFEC, No. 5 at p. 3) DOE notes that CFEC's comment takes issue with the contents of the 2012 IECC. Again, this comment is beyond the scope of the determination as required under ECPA.

Recommendations

RECA commented that "RECA encourages the Department to move quickly to finalize this determination in order to start the two-year period for state compliance." (RECA, No. 7 at p. 8) RECA also provided a series of recommended next steps, including:

- Follow up on state requirements;

- Produce support materials and copies of code books to promote state adoption of the 2012 IECC;
- Update compliance materials (including REScheck) to reflect the 2012 IECC; and
- Continue to offer incentives for leading states;
- Set the 2012 IECC as the standard/baseline for future codes activities.

(RECA, No. 8 at p. 8)

NRDC made similar recommendations that DOE “continue to take steps to promote the development, adoption, and implementation of strong building energy codes, including issuing timely code determinations.” (NRDC, No. 4 at p. 2) DOE agrees with both RECA’s and NRDC’s recommendations and notes that it is already planning to follow up with the states on their obligations under the determination process once this determination is finalized. Once this determination is finalized, the 2012 IECC will serve as the baseline for future code activities at DOE. DOE routinely produces and updates support materials for new codes and these materials can be found at www.energycodes.gov.

SHGC Requirements in Climate Zone 4

DOE received a comment supporting the change to the SHGC requirements in climate zone 4. Specifically, RECA supported the requirement for a maximum solar heat gain coefficient (SHGC) of 0.40 for glazed fenestration in climate zone 4 of the 2012 IECC, and disagrees with the Department’s preliminary conclusion that energy efficiency improvement from 0.40 SHGC in climate zone 4 is “unclear.” (RECA, No. 6 at p. 5) RECA continued their comment by stating “While we agree with the Department that the 0.40 SHGC requirement in climate zone 4 could increase heating load in some cases, cooling loads will also be reduced. Depending on the assumptions made and given the limits on typical building performance analysis, the direct calculated energy savings impact from this requirement is likely small and varies from location to location. However, this requirement is an improvement based on the other energy efficiency benefits it brings. Specifically, the new provision yields savings from lower peak electric demands and reduced energy use during peak periods, may allow for smaller air conditioners to be installed, and potentially increased occupant comfort on hot sunny days.” DOE agrees with RECA that lower peak electric demand, reduced energy use during peak periods, reduced cooling equipment size, and the potential for increased occupant comfort on hot summer days are all significant

aspects of this requirement. However, DOE’s determinations of energy savings on the model energy codes are focused strictly on whether or not the new version of the code saves energy when compared to the previous version and these considerations are therefore not relevant to this determination. DOE stands by its statement that it is “unclear” if this requirement saves energy in climate zone 4. Whether or not this change does save energy depends greatly on other assumptions made about the how the home is designed and operated and the specific location of the home in climate zone 4. These assumptions are not part of today’s determination, but would be on a particular home.

Performance Path

RECA commented that “improvements to the assumptions in the performance path will lead to more energy efficiency and better enforcement, and as such, these improvements should be viewed as positive improvements in energy efficiency.” (RECA, No. 5 at p. 4) RECA discussed two specific parts of the performance path—interior shading assumptions and the baseline heating system for electrically heated homes. Specifically, RECA asserted that the new treatment of interior shading in the performance path is an improvement. DOE acknowledges that there were changes in the performance path and in fact does discuss these changes in the preliminary determination. The change in treatment of interior shading does represent the latest research on this topic. DOE also acknowledges that properly quantifying the impact of interior shading is important for the performance approach. However, as stated in the preliminary determination and again in today’s final determination, DOE also believes that the true impact of this change on homes remains nuanced and difficult to generalize, but is expected to be small. DOE notes that impact of this particular assumption depends on a number of other parameters of the building being modeled, including (but not limited to): The specific areas, distribution, and orientation of glazing in the home in question; whether the home has overhangs and other exterior shadings; how internally dominated the home is (a function of surface-to-volume ratio, aspect ratio, etc.); and the ratio of heating to cooling loads in the specific location of the home.

RECA also commented that “the baseline assumption for electric heating of an electric heat pump is not so much a “penalty” on electric resistance

heating as a clarification of the intent of the 2009 IECC.” (RECA, No. 5 at p. 4) In response, DOE believes that the baseline assumption of a heat pump for homes using electric resistance heating will be harder for homes with electric resistant heating to comply with under the whole building compliance path in the 2012 IECC than it would be for that same home under the 2009 IECC. RECA also commented that they view this change as a clarification to the “traditional use of a heat pump as the baseline in the Standard Reference Design for electric heated homes”. DOE agrees that the 2006 IECC used heat pumps as the baseline. However, the heat pump baseline was not included in the 2009 IECC. DOE’s role in determinations is to compare the latest version of the IECC with the previous version and to determine if the latest version improves the level of energy efficiency in residential buildings over the previous version. Therefore, DOE’s final determination is based on the comparison between the 2009 IECC and the 2012 IECC.

CFEC also commented that DOE should “Recognize in the Determination Statement a performance approach that calculates energy savings when less than 15% of wall area contains windows.” (CFEC, No. 6 at p. 3) DOE assumes the basis of this comment is the fact that the Simulated Performance Alternative in the 2012 IECC does not provide “credit” for homes with less than 15% of conditioned floor area in windows. In response, DOE notes that CFEC’s comment takes issue with the content of the 2012 IECC. DOE’s role in determinations is to compare the latest version of the IECC with the previous version and to determine if the latest version improves the level of energy efficiency in residential buildings over the previous version. DOE also notes that the provisions in the 2012 IECC with regards to window area in the performance approach are identical to those in the 2009 IECC.

DOE’s 30% Improvement Goal for the 2012 IECC

CFEC commented that “DOE should explicitly recognize in the Determination Statement that the use of greater levels of insulation in Climate Zone 3 above R13 is not necessary to achieve the 30% improvement goal that DOE has established. As the proponent of IECC code change EC13–09/10 Parts I and II, to overhaul the residential energy provisions of the IRC and IECC, DOE did not propose to change Climate Zone 3 from R13 to either R20 or R13+5 ci.” (CFEC, No. 2 at p. 2) In response, DOE notes that CFEC’s comment takes

issue with the content of the 2012 IECC. DOE's role in determinations is to compare the latest version of the IECC with the previous version and to determine if the latest version improves the level of energy efficiency in residential buildings over the previous version.

D. DOE's Final Determination Statement

The 2012 IECC has a substantial variety of revisions compared to the 2009 IECC. Most of these revisions appear to directly improve energy efficiency that, on the whole, would result in a significant improvement in efficiency to homes built to the code. Therefore, the Department concludes that the 2012 edition of the IECC receives an affirmative determination under Section 304(a) of ECPA.

II. Discussion of Changes in the 2012 IECC Compared With the 2009 IECC Summary

The 2012 IECC appears to improve residential energy efficiency with respect to the 2009 IECC. Based on DOE's analysis, a preponderance of major energy efficiency improvements more than offset a small number of changes which have unclear or negative impacts on energy efficiency. The major changes that are estimated to improve energy efficiency in new homes built to comply with the code in most climate zones include:

- Building thermal envelope improvements
 - Increases in prescriptive insulation levels of walls, roofs and floors
 - Decrease (improvement) in U-factor allowances for fenestration
 - Decrease (improvement) in allowable Solar Heat Gain Coefficient (SHGC) for fenestration in warm climates
- Infiltration control: Mandated whole-house pressure test with strict allowances for air leakage rates
- Wall insulation when structural sheathing is used
- Ventilation fan efficiency
- Lighting—Increased fraction of lamps required to be high-efficacy
- Air distribution systems—leakage control requirements
- Hot water pipe insulation and length requirements

- Skylight definition change
- Penalizing electric resistance heating in the performance compliance path
- Fireplace air leakage control
- Insulating covers for in-ground spas
- Baffles for attic insulation

Changes that appear to decrease residential efficiency in some situations include the following.

- Steel-framed wall insulation
- Air barrier location

Changes whose effect is unclear:

- Fenestration SHGC requirement in climate zone 4
- Interior shading assumptions in the performance compliance path

All of the changes that are estimated to positively or negatively impact energy efficiency are discussed in the following text.

A. Changes in the 2012 IECC That Are Estimated To Increase Energy Efficiency

Building Thermal Envelope Improvements

Table R402.1.1 which specifies prescriptive envelope requirements, has been extensively modified in the 2012 IECC compared to the 2009 IECC. This table represents the code's primary regulation of a home's envelope thermal resistance, or the resistance of the ceilings, walls, windows, and floors to the transfer of heat into or out of the home. The criteria are expressed as either R-values (Btu/h-ft²-F), which quantify a building component's resistance to heat flow, or U-factors (h-ft²-F/Btu), which are the inverse of R-values and represent a component's thermal conductance. A higher R-value or a lower U-factor represents an efficiency improvement. Table R402.1.1 also includes requirements for glazed fenestration solar heat gain coefficients (SHGC) in the southern and central climate zones. In a cooling-dominated climate, a lower SHGC will almost always reduce a home's annual energy consumption.

Table 1 below shows the changes in the code's required R-values and U-factors by climate zone. Additionally, Table R402.1.3 has an improvement for fenestration U-factor in climate zone 1 from 1.20 in the 2009 IECC to 0.50 in the 2012 IECC. DOE has preliminarily

determined that every change in the code's table represents an improvement in efficiency. Table 2 below shows the increase in required thermal resistance for each building component type weighted by climate zone.

For the fenestration U-factor, the code has increased the required thermal resistance by an average of 26.7%. In climate zone 1, Table R402.1.1 appears to revert from a required U-factor of 1.2 to NR (no requirement). This, however, should have no effect on the energy efficiency of the code because the U-factor of a minimally efficient single-pane window meets the requirement of 1.2. Seen in this light, the change to NR is really a clarification, rather than an actual change. The U-factor requirements for skylights in the 2012 IECC would reduce allowable heat loss through skylights an average of 12.6% compared to the 2009 IECC.

For glazed fenestration the allowable solar heat gain coefficient (SHGC) has been lowered, reducing solar heat gain by 17% in the cooling-dominated climate zones (1–3).

Four climate zones (2 through 5) were affected by more stringent insulation requirements in ceilings. Required R-values increased by 27% to 29% in these zones. However, accounting for the thermal bridging effects of typical wood framing members, DOE has preliminarily determined that the changes in the code represent a weighted average increase of 12.2% in the thermal resistance of ceilings.

For wood frame walls, the code allows a choice in some climate zones of a single value for insulation in the cavity between wall studs, or two values: One for cavity insulation and one for additional continuous insulation applied to the interior or exterior of the wall. Accounting for thermal bridging effects, and choosing the least thermally resistive of the two options, the 2012 code is estimated to improve thermal resistance of wood-frame walls an average of 13.7%. Mass wall (e.g., concrete, concrete block, log) R-value requirements increased by an average of 33.4%. Basement wall and crawl space wall R-values increased by 14.5% and 17.6%, respectively.

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Table 1: Changes in insulation and U-factors for prescriptive (Table R402.1.1) path in the 2012 IECC

Climate Zone	Fenest. U-Factor	Skylight U-Factor	Glazed Fenest. SHGC	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement Wall R-Value	Slab R-Value & Depth	Crawl Wall R-Value
1	1.20 NR	0.75	0.3 0.25	30	13	3/4	13	0	0	0
2	0.65 0.40	0.75 0.65	0.3 0.25	30 38	13	4/6	13	0	0	0
3	0.50 0.35	0.65 0.55	0.3 0.25	30 38	13 20 or 13+5	5/8 8/13	19	5/13	0	5/13
4 except Marine	0.35	0.60 0.55	NR 0.40	38 49	13 20 or 13+5	5/10 8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.35 0.32	0.60 0.55	NR	38 49	20 or 13+5	13/17	30	10/13 15/19	10, 2 ft	10/13 15/19
6	0.35 0.32	0.60 0.55	NR	49	20 or 13+5 20+5 or 13+10	15/19 20	30	15/19	10, 4 ft	10/13 15/19
7 and 8	0.35 0.32	0.60 0.55	NR	49	24 20+5 or 13+10	19/21	38	15/19	10, 4 ft	10/13 15/19

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TABLE 2—NATIONAL AVERAGE INCREASE IN THERMAL RESISTANCE FOR LOWEST REQUIRED INSULATION LEVEL BY BUILDING COMPONENT

Building component	Increase in thermal resistance of required insulation (percent)
Fenestration	26.7
Skylights	12.6
Ceiling	18.2
Wood Frame Wall	13.7
Mass Wall ¹	33.4
Basement Wall ¹	14.5
Crawl Space Wall ¹	17.6

¹There are two R-value options in the IECC. The first R-value option is used for this comparison. For mass walls, this first value applies when less than half of the insulation is on the interior of the mass wall, the case for which the code allows a greater reduction in required R-value due to the beneficial effects of thermal mass. The second number is more similar to wood frame wall requirements. For basement and crawl space walls, this first value applies for continuous insulation on the interior or exterior of the wall, whereas the second value is for insulation in cavities between studs or furring strips. In this case the two values represent approximately similar overall thermal resistance.

The 2012 IECC specifies that insulation R-values conform to the requirements of Table R402.1.1 even if the insulation must be compressed to fit within the available cavity. This clause primarily affects some nominal R-19 fiberglass batts that are designed for floor and/or ceiling applications where the available cavity is greater than the 5.5 inches typically available in a 2x6 wall. However, the 2012 edition has no prescriptive requirements that exactly require R-19 in wall cavities, so it is expected that there is no direct impact on energy savings.

Infiltration Control

Section 402.4.1.2 contains a new provision for a mandatory whole-house pressure test to determine the envelope air leakage rate (the test was optional in the 2009 IECC). The maximum allowable air leakage rate is 5 air changes/hour when tested at a pressure difference of 50 Pascals (5 ACH50) in climate zone 1 and climate zone 2; and 3 air changes/hour (3 ACH50) in climate zones 3–8. The 2009 IECC specified a maximum of 7 ACH50 when the optional test was used, or directed the building official to inspect the envelope against a detailed checklist when the test was not used. The lower allowed leakage rate of the 2012 IECC is

expected to save energy, and the mandatory test will likely result in improved energy efficiency in homes that would have had higher leakage rates as a result of leaks that would not be detected by visual inspection.

Mechanical ventilation systems can be used to provide fresh air from the outdoors to a home. The 2009 IECC does not require any mechanical ventilation. Section R403.5 of the 2012 IECC refers to the 2012 International Residential Code and International Mechanical Code which, in tandem with the 2012 IECC, require that a mechanical ventilation system meet these requirements or other approved means of ventilation in new homes.

Wall Insulation When Structural Sheathing Is Used

Footnote h to Table R402.1.1 allows certain reductions in the required R-value of continuous insulation on walls that use structural sheathing (e.g., plywood, OSB) for shear bracing. The footnote is relevant only when there is a mixture of structural and insulating sheathing on the wall(s). The 2009 IECC states: “First value is cavity insulation, second is continuous insulation, so “13+5” means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent

or less of the exterior, insulating sheathing is not required in the locations where structural sheathing is used. If structural sheathing covers more than 25 percent of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2."

The footnote has the effect of suspending the continuous R-value requirement for portions of the wall covered with structural sheathing, provided those portions represent 25% or less of the wall area. If structural sheathing covers more than 25% of the wall, the structural portions must be augmented with additional insulating sheathing of at least R-2. The 2012 IECC states: "*First value is cavity insulation, second is continuous insulation, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation. If structural sheathing covers 40 percent or less of the exterior, continuous insulation R-value shall be permitted to be reduced by no more than R-3 in the locations where structural sheathing is used—to maintain a consistent total sheathing thickness.*"

The 2012 IECC allows a larger fraction of the wall (40% rather than 25%) to contain reduced continuous insulation but, unlike the 2009 IECC, does not allow elimination of continuous insulation. The 2012 IECC specifies substantially more continuous insulation layered on top of structural sheathing when the structural fraction exceeds the 40% threshold. It is estimated that the net effect is greater overall efficiency.

Ventilation Fan Efficiency

When installed to function as a whole-house ventilation system, the 2012 IECC specifies that mechanical fans meet the following requirements:

- Range Hoods and In-line fans: 2.8 cubic feet per minute cubic feet per minute (cfm)/watt
- Bathroom (10–90 cfm): 1.4 cfm/watt
- Bathroom (>90 cfm): 2.8 cfm/watt

Because the 2012 IECC places upper limits on the energy requirements for these fans where there were no such limits in the 2009 IECC, this change is expected to improve overall efficiency in residences.

Lighting

The requirement for high efficacy lamps has been increased from a minimum of 50% of the lamps in permanently-installed fixtures to a minimum of 75%. Further, the high efficacy lamp requirement has been changed from prescriptive to mandatory, meaning the specification cannot be lessened in trade for

efficiency improvements elsewhere in the home. This change also addresses an aspect of the 2009 IECC under which the use of high-efficacy lamps is not specified when a building achieved compliance via the simulated performance compliance path. This is expected to improve the energy savings in the 2012 IECC by reducing lighting energy use. The 2012 IECC also added an option for calculating the high-efficacy fraction based on a count of fixtures instead of individual lamps, a change not expected to change overall efficiency.

Section R404.1.1 in the 2012 IECC contains a new provision that bans continuously burning pilot lights on fuel-fired lighting. While the potential energy savings are limited due to the fringe application of this type of lighting, where applied, this rule would tend to increase energy savings by cutting standby energy use of the pilot light.

Air Distribution System

There are three key changes to requirements for air distribution systems that improve energy efficiency:

- A change to section R403.2.2.1 that places a limit on air leakage from air handlers. The change is to ensure that the air handler delivers the vast majority of the supply air downstream to the rest of the distribution system.
- Section R403.2.2 reduces maximum allowable levels of duct leakage in the distribution system compared to the 2009 IECC (from 12 cfm per 100ft² of conditioned floor area to 4cfm/100ft² for tests done on completed buildings, and from 6 to 4 cfm per 100ft² for tests done at the rough-in stage of construction).
- Section R403.2.3 now specifies that building framing cavities may not be used as supply ducts or plenums, which would eliminate the potential for air leaks into adjacent framing cavities and/or attics, crawlspaces, or unheated basements. This may also lessen the chance of an unbalanced distribution system.

DOE has determined that all of these changes will increase the energy savings of the 2012 edition of the IECC by delivering more of the conditioned air to where it is needed via a more efficient distribution system.

Hot Water Pipe Insulation and Length Requirements

Section R403.4.2 contains new specifications for noncirculating service hot water distribution systems that should reduce energy losses from "stranded" hot water and conduction of heat out of the pipes. The 2012 IECC specifies that all such pipes to be

insulated unless they have sufficiently low volume as defined by a combination of their length (measured from the tank or distribution manifold to the point of use) and diameter. This change is expected to reduce the amount of hot water that cools off in the pipes and is thus wasted as users wait for sufficiently warm water to reach the fixture. Also, for circulating hot water systems, the required insulation has been increased from R-2 to R-3 and therefore should increase efficiency. A final change in the 2012 IECC requires that piping insulation be protected from the elements. Although primarily a durability concern, this change may save energy by reducing the incidence of damaged and/or missing insulation.

Skylight Definition Change

Previously, skylights were defined as any glazed fenestration at less than 75 degrees from horizontal. That definition has been changed in the 2012 IECC to be less than 60 degrees from horizontal. The effect of this change is to classify more glazing as vertical fenestration rather than skylights. Although the number of skylights in this slope range is small, because the U-factor requirements for vertical fenestration are more stringent than for skylights, this change is expected to improve the energy savings of the 2012 IECC.

Electric Resistance Heating in the Performance Path

Under the performance compliance path (Section R405), the 2012 IECC has modified the reference design for buildings with electric heating systems that do not use a heat pump, requiring that a heat pump be assumed in the standard reference design. Because of the efficiency of heat pumps as compared to other electric heating technologies, this code change is expected to increase the energy efficiency of the reference design, which would have the effect of specifying that the proposed design to be more energy efficient if it is to comply via this section and the proposed design has an electric heating system that is less efficient than a heat pump. Although this affects only homes with electric resistance heating, its effect is expected to be an improvement in efficiency if such homes comply via the performance method.

Fireplace Air Leakage Control

The 2012 IECC specifies that all fireplaces have tight-fitting flue dampers and gasketed doors (the 2009 IECC requires such only for wood-burning fireplaces). This is expected to result in very air-tight fireplaces which would

improve a home's air leakage characteristics. Therefore, this is deemed an improvement in efficiency for homes with fireplaces.

In-Ground Spas

Section R403.9 has been updated to include in-ground spas under the purview of the code, where previously only swimming pools were included. The change effectively requires in-ground spas to have insulating covers, which should lower energy losses. To the extent that these devices typically already have insulating covers this may have limited impact in terms of efficiency.

The 2012 IECC now specifies that log walls meet the requirements of ICC-400, a separate standard for log wall construction. Although this does not change the thermal requirements, it may result in better quality construction of log walls, which would improve energy performance by reducing air leaks and thermal bypasses.

Baffles for Attic Insulation

Section R402.2.3 now requires a wind wash baffle for vented attics. For air-permeable insulation, this should improve the effective insulation value of the ceiling by reducing wind-driven air movement and may in some cases prevent blown-in insulation from being displaced by wind. Therefore, this is an improvement in efficiency for attics.

B. Changes in the 2012 IECC That Are Estimated To Decrease Energy Efficiency

Steel-Framed Wall Insulation

The 2012 IECC modifies the IECC code's tables of steel-framed wall U-factor equivalences with wood-frame walls of various R-values in such a way that less efficient steel-framed walls will be deemed equivalent to a corresponding wood-frame wall in many cases. In the 2009 IECC, there was no distinction between homes with different steel stud spacing. In the 2012 IECC, there are now separate U-factor equivalences for studs with 16" and 24" spacing. The 16" stud spacing requirements have two categories that are directly comparable to the 2009 IECC requirements: Walls with wood-frame R-values of R-13 or R-21. According to Table A3.3 of ASHRAE 90.1 2007, the 2009 IECC-required R-factors represent an equivalent U-factor for the wall assembly of 0.077 to 0.080 Btu/hr-ft²-F, depending on the compliance option. This has been changed in the 2012 IECC to a range of 0.059–0.089 Btu/hr-ft²-F. The average compliance option based on R-13 wood-frame walls represents a 5.4% higher U-factor. For R-21 wood-frame walls, the steel frame options previously represented U-factors of 0.054, whereas in the 2012 code, they represent U-factors of 0.056, a 3.1% increase.

Insulation equivalences in the 2012 IECC for steel walls with 24" stud

spacing are slightly more lax, reflecting the decreased thermal bridging effects, compared with 16" stud spacing. Because the baseline for comparison for 24" stud spacing in the 2009 IECC is still the general requirements that did not distinguish based on stud spacing, these new requirements represent higher increases in assembly U-factors than for 16" stud spacing. Specifically, there is a 9.1% increase in assembly U-factors among the various insulation options for R-13 and an 11.8% increase for R-21. The steel-wood framing equivalences of the 2009 IECC and the 2012 IECC are compared below in Table 3. In this table, the first value is cavity insulation and the second is continuous insulation. For example, R-13+5 is R-13 cavity insulation plus R-5 continuous insulation.

Note that while the steel/wood equivalences have changed such that steel-stud walls may be less efficient than before in comparison to a particular wood-frame R-value, the base R-value requirements (expressed in terms of wood-frame walls) have substantially increased in climate zones 3, 4, 6, 7, and 8 which would result in energy savings in these zones even for steel framed walls. Because the number of homes with external walls with steel framing is small compared to wood-frame homes, this change is not expected to result in substantial overall efficiency losses in zones 1, 2, and 5.

TABLE 3—COMPARISON OF STEEL-FRAME WALL REQUIREMENTS BETWEEN THE 2009 AND 2012 IECC

Steel Frame Spacing	16" stud spacing		24" stud spacing	
Wood-Frame Requirement	R-13	R-21	R-13	R-21.
2009 IECC Options	R-0+10 or R13+5 or R-15+4 or R-21+3.	R-13+10 or R-19+9 or R-25+8.	R-13+5 or R-15+4 or R-21+3 or R-0+10.	R-13+10 or R-19+9 or R-25+8.
2012 IECC Options	R-0+9.3 or R-13+4.2 or R-15+3.8 or R-19+2.1 or R-21+2.8.	R-0+14.6 or R-13+9.5 or R-15+9.1 or R-19+8.4 or R-21+8.1 or R-25+7.7.	R-0+9.3 or R-13+3 or R-15+2.4.	R-0+14 or R-13+8.3 or R-15+7.7 or R-19+6.9 or R-21+6.5 or R-25+5.9.
Average U-factor (2009) ¹	0.079	0.054	0.063	0.04.
Average U-factor (2012) ...	0.083	0.056	0.07	0.045.
Average U-factor Increase	5.4%	3.1%	9.1%	11.8%.

¹ Calculated using ASHRAE 90.1–2007 Table A3.4.

Air Barrier Location

The 2012 IECC changes Table R402.4.1.1 by removing a requirement that air-permeable insulation be located inside the air barrier, allowing the insulation to be outside of the air barrier in the exterior envelope construction. By allowing air-permeable insulation to be located outside the air barrier this change may result in increased levels of outdoor air infiltration in the interstices of the insulation material. This would

tend to reduce the effectiveness of the insulation. The magnitude of impact for this change, however, is expected to be minimal because an interior air barrier will still be effective at reducing air movement through the envelope and because the 2012 IECC's new mandate for a whole-house pressure test will ensure that total air leakage through the building envelope be kept at a low rate.

There is an additional change in the 2012 IECC that may reduce the energy efficiency of the code. In the 2009 IECC,

the common wall between dwelling units of a multifamily or two-family structure was required to be air-sealed. In the 2012 IECC, this requirement has been removed. In practice, these common walls can provide a route for air leakage to the outdoors if they are coupled to attics, basements, crawlspaces, or other unconditioned spaces. Because multifamily represent a small fraction of low-rise residential dwelling units (about 15%) and because this change creates the potential for only

an indirect air movement path, DOE does not consider this change to be significant.

C. Changes in the 2012 IECC That Have an Unclear Impact on Energy Efficiency

Fenestration SHGC in Climate Zone 4

As presented in Table 1, the 2012 IECC changes SHGC specifications for climate zone 4 from no requirement (NR) to 0.4. Because climate zone 4 contains locations where the energy savings from increased solar heat gains in winter may more than offset increased energy use for air conditioning in summer, it is possible that a lower SHGC would increase energy use in some parts of the zone. However, the specified fenestration U-factor of 0.35 in both the 2009 and 2012

IECC usually implies the use of windows with low-emissivity coatings that have an SHGC of 0.4 or below even in the absence of a specific SHGC requirement. Therefore, DOE expects this change to have minimal impact either in terms of energy savings or energy losses.

Interior Shading Assumptions in the Performance Compliance Path

The 2012 IECC modifies internal shade fractions required as inputs to the performance compliance path. The 2009 IECC specified the following internal shade fractions for the reference design: Summer—0.70, Winter—0.85. These have been replaced in the 2012 IECC with the following equation for calculating interior shade fraction (ISF):

$$ISF = 0.92 - 0.21 \dot{C} SHGC$$

The impact of this change on the energy consumption of homes complying via the performance path is nuanced and difficult to generalize, but is expected to be small. Its primary impact is to modestly change the relative importance of cooling- and heating-oriented energy-saving features.

D. Changes in the 2012 IECC That Do Not Affect Energy Efficiency

Several changes were made to the IECC that do not directly affect energy efficiency. Table 4 details these changes, listing the section of the 2009 IECC to which the change was made, a description of the change, and an explanation why overall energy efficiency is not affected.

TABLE 4—CHANGES TO IECC THAT DO NOT AFFECT ENERGY EFFICIENCY

Code section	Change	Comments
R202	Clarifies that residential buildings covered by chapter 4 are one- and two-family dwellings, townhouses and multi-family residential (R-2) not over 3 stories in height above grade.	This change is only a clarification.
R202	Definition of a whole-house ventilation system	Because whole-house ventilation systems are not yet required by the code, this new definition effects no real change to the code's requirements.
R401.3	Results of an air leakage test must be documented on the certificate.	This change only affects the transparency of code compliance.
R202 and R303.1.3	Introduction of "Visible Transmittance" (VT) for fenestrations. Default Visible Transmittances defined in Table.	The table only provides default VT values for certain window types. VT is not directly regulated by the code.
R402.4.4	Clarification that recessed lighting must be labeled as having a leakage rate to ceiling cavity of ≤ 2 cfm.	This is only a clarification of previous text.
Chapter 6	Introduction of ASHRAE test procedure 193 for determining the air leakage rate for HVAC Equipment.	Provides a test procedure to enable compliance with a new requirement.
Chapter 5	Introduction of test standard for home ventilation systems: HVI 916–09 Airflow Test Procedure.	Provides a test procedure to enable compliance with a new requirement.
Table R405.5.2(1)	Requirements for Proposed Design for Thermal Distribution Systems: Thermal distribution system efficiency shall be as tested or as specified by Table 405.5.2 if not tested. Duct insulation shall be as proposed.	This change is only a clarification.
R403.6	Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.	This moves this requirement directly into the IECC instead of referencing the IRC.

III. Filing Certification Statements With DOE

A. State Determinations

Based on today's final determination, each State is required to determine the appropriateness of revising, in full or in part, the portion of its residential building code regarding energy efficiency to meet or exceed the energy efficiency provisions of the 2012 IECC. (42 U.S.C. 6833(a)(5)(B)) The State determinations are required to be made not later than two years from today's date, unless an extension is provided. The State determination must be: (1) Made after public notice and hearing; (2) in writing; (3) based upon findings

and upon the evidence presented at the hearing; and (4) made available to the public. States have considerable discretion with regard to the hearing procedures they use, subject to providing an adequate opportunity for members of the public to be heard and to present relevant information. The Department recommends publication of any notice of public hearing in a newspaper of general circulation.

In evaluating the 2012 IECC, States should note that DOE's determination was based on an evaluation of the code as applied to new construction only. The scope of the 2012 IECC includes new construction as well as additions, alterations, renovations, or repairs to an

existing building or building system, or portion thereof, as it relates to new construction as detailed in chapter 1, part 1 of the 2012 IECC. Chapter 1, part 1 of the 2012 IECC specifies the scope of the IECC as it pertains to existing buildings: The 2012 IECC does not require the unaltered portion(s) of the existing building or building system to comply with this code nor does the code require the removal, alteration or abandonment of, nor prevent the continued use and maintenance of, an existing building or building system lawfully in existence at the time of adoption of the IECC. Additionally, DOE notes that its determination was based on a comparison of energy efficiency

impacts only and did not take into consideration other factors such as cost, or health and safety. DOE provides States technical assistance to aid them in determining whether to update specific residential building codes. See <http://www.energycodes.gov/states/techAssist.stm>. In addition, funds provided through the State Energy Program, can be used to support code development consistent with a State's approved plan.

Section 304(a)(4) of ECPA, as amended, requires that if a State makes a determination that it is not appropriate to revise the energy efficiency provisions of its residential building code, the State must submit to the Secretary, in writing, the reasons for this determination and the statement shall be available to the public. (42 U.S.C. 6833(a)(4)) The reasons are to be sent to the address provided in the **ADDRESSES** section.

States should be aware that, consistent with IECC definitions, the Department considers high-rise (greater than three stories) multifamily residential buildings and hotel, motel, and other transient residential building types of any height as non-residential buildings for energy code purposes. Residential buildings include one- and two-family detached and attached buildings, duplexes, townhouses, row houses, and low-rise multifamily buildings (not greater than three stories) such as condominiums and garden apartments.

States should also be aware that this final determination does not apply to IECC chapters specific to non-residential buildings as defined above. Therefore, today's final action requires that States must certify their evaluations of their State building codes for residential buildings with respect to all provisions of the IECC except for those chapters specific to non-residential buildings as defined above.

B. Requests for Extensions To Certify

Section 304(c) of ECPA, as amended, requires that the Secretary permit an extension of the deadline for complying with the certification requirements described above, if a State can demonstrate that it has made a good faith effort to comply with such requirements and that it has made significant progress toward meeting its certification obligations. (42 U.S.C. 6833(c)) Such demonstrations could include one or both of the following: (1) A plan for response to the requirements stated in Section 304; and/or (2) a statement that the State has appropriated or requested funds (within State funding procedures) to implement

a plan that would respond to the requirements of Section 304 of ECPA. This list is not exhaustive. Requests are to be sent to the address provided in the **ADDRESSES** section.

IV. Regulatory Analysis

A. Review Under Executive Order 12866

Today's action is a significant regulatory action under section 3(f)(1) of Executive Order 12866, "Regulatory Planning and Review" (58 FR 51735 (Oct. 4, 1993)). Accordingly, today's action was reviewed by the Office of Information and Regulatory Affairs (OIRA) in the Office of Management and Budget (OMB).

B. Review Under the Regulatory Flexibility Act

The Regulatory Flexibility Act (5 U.S.C. 601 *et seq.*) requires the preparation of an initial regulatory flexibility analysis for any rule that by law must be proposed for public comment, unless the agency certifies that the rule, if promulgated, will not have a significant economic impact on a substantial number of small entities. As required by Executive Order 13272, "Proper Consideration of Small Entities in Agency Rulemaking," (67 FR. 53461 (Aug. 16, 2002)), DOE published procedures and policies on February 19, 2003, to ensure that the potential impacts of its rules on small entities are properly considered during the rulemaking process (68 FR 7990). DOE has made its procedures and policies available on the Office of General Counsel's Web site: <http://www.gc.doe.gov>. Today's action on the final determination of improved energy efficiency between IECC editions requires States to undertake an analysis of their respective building codes. Today's action does not impact small entities. Therefore, DOE has certified that there is no significant economic impact on a substantial number of small entities.

C. Review Under the National Environmental Policy Act of 1969

DOE has determined that today's action is covered under the Categorical Exclusion found in DOE's National Environmental Policy Act regulations at paragraph A.6 of Appendix A to subpart D, 10 CFR part 1021. That Categorical Exclusion applies to actions that are strictly procedural, such as rulemaking establishing the administration of grants. Today's action impacts whether States must perform an evaluation of State building codes. The action would not have direct environmental impacts. Accordingly, DOE has not prepared an

environmental assessment or an environmental impact statement.

D. Review Under Executive Order 13132, "Federalism"

Executive Order 13132, 64 FR 43255 (Aug. 4, 1999), imposes certain requirements on agencies formulating and implementing policies or regulations that pre-empt State law or that have federalism implications. Agencies are required to examine the constitutional and statutory authority supporting any action that would limit the policymaking discretion of the States and carefully assess the necessity for such actions. DOE has examined today's action and has determined that it will not pre-empt State law and will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government. Today's action impacts whether States must perform an evaluation of State building codes. No further action is required by Executive Order 13132.

F. Review Under the Unfunded Mandates Reform Act of 1995

The Unfunded Mandates Reform Act of 1995 (Pub. L. 104-4) generally requires Federal agencies to examine closely the impacts of regulatory actions on State, local, and tribal governments. Subsection 101(5) of Title I of that law defines a Federal intergovernmental mandate to include any regulation that would impose upon State, local, or tribal governments an enforceable duty, except a condition of Federal assistance or a duty arising from participating in a voluntary Federal program. Title II of that law requires each Federal agency to assess the effects of Federal regulatory actions on State, local, and tribal governments, in the aggregate, or to the private sector, other than to the extent such actions merely incorporate requirements specifically set forth in a statute. Section 202 of that title requires a Federal agency to perform a detailed assessment of the anticipated costs and benefits of any rule that includes a Federal mandate which may result in costs to State, local, or tribal governments, or to the private sector, of \$100 million or more. Section 204 of that title requires each agency that proposes a rule containing a significant Federal intergovernmental mandate to develop an effective process for obtaining meaningful and timely input from elected officers of State, local, and tribal governments.

Today's action impacts whether States must perform an evaluation of State

building codes. Today's action would not impose a Federal mandate on State, local or tribal governments, and it would not result in the expenditure by State, local, and tribal governments in the aggregate, or by the private sector, of \$100 million or more in any one year. Accordingly, no assessment or analysis is required under the Unfunded Mandates Reform Act of 1995.

G. Review Under the Treasury and General Government Appropriations Act of 1999

Section 654 of the Treasury and General Government Appropriations Act of 1999 (Pub. L. 105-277) requires Federal agencies to issue a Family Policymaking Assessment for any rule that may affect family well-being. Today's action would not have any impact on the autonomy or integrity of the family as an institution. Accordingly, DOE has concluded that it is not necessary to prepare a Family Policymaking Assessment.

H. Review Under the Treasury and General Government Appropriations Act of 2001

Section 515 of the Treasury and General Government Appropriations Act, 2001 (44 U.S.C. 3516, note) provides for agencies to review most disseminations of information to the public under guidelines established by each agency pursuant to general guidelines issued by OMB. OMB's guidelines were published at 67 FR 8452 (Feb. 22, 2002), and DOE's guidelines were published at 67 FR 62446 (Oct. 7, 2002). DOE has reviewed today's action under the OMB and DOE guidelines and has concluded that it is consistent with applicable policies in those guidelines.

I. Review Under Executive Order 13211

Executive Order 13211, "Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use," 66 FR 28355 (May 22, 2001), requires Federal agencies to prepare and submit to the OMB a Statement of Energy Effects for any proposed significant energy action. A "significant energy action" is defined as any action by an agency that promulgated or is expected to lead to promulgation of a final rule, and that: (1) Is a significant regulatory action under Executive Order 12866, or any successor order; and (2) is likely to have a significant adverse effect on the supply, distribution, or use of energy, or (3) is designated by the Administrator of the Office of Information and Regulatory Affairs (OIRA) as a significant energy action. For any proposed significant

energy action, the agency must give a detailed statement of any adverse effects on energy supply, distribution, or use, should the proposal be implemented, and of reasonable alternatives to the action and their expected benefits on energy supply, distribution, and use.

Today's action would not have a significant adverse effect on the supply, distribution, or use of energy and is therefore not a significant energy action. Accordingly, DOE has not prepared a Statement of Energy Effects.

J. Review Under Executive Order 13175

Executive Order 13175, "Consultation and Coordination With Indian Tribal Governments" (65 FR 67249 (Nov. 9, 2000)), requires DOE to develop an accountable process to ensure "meaningful and timely input by tribal officials in the development of regulatory policies that have tribal implications." "Policies that have tribal implications" refers to regulations that have "substantial direct effects on one or more Indian tribes, on the relationship between the Federal Government and Indian tribes, or on the distribution of power and responsibilities between the Federal Government and Indian tribes." Today's regulatory action is not a policy that has "tribal implications" under Executive Order 13175.

DOE has reviewed today's action under Executive Order 13175 and has determined that it is consistent with applicable policies of that Executive Order.

Issued in Washington, DC, on May 9, 2012.

David T. Danielson,

Assistant Secretary, Energy Efficiency and Renewable Energy.

[FR Doc. 2012-12000 Filed 5-16-12; 8:45 am]

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DEPARTMENT OF ENERGY

Office of Energy Efficiency and Renewable Energy

[Case No. RF-022]

Publication of the Petition for Waiver From Sanyo E&E Corporation From the Department of Energy Residential Refrigerator and Refrigerator-Freezer Test Procedure

AGENCY: Office of Energy Efficiency and Renewable Energy, Department of Energy.

ACTION: Notice of re-opening of public comment period.

SUMMARY: On April 2, 2012, the U.S. Department of Energy (DOE) published the Sanyo E&E Corporation (Sanyo)

petition for waiver from the residential refrigerator and refrigerator-freezer test procedure. Comments were required to be submitted by May 2, 2012. This document announces that the period for submitting comments on the Sanyo petition for waiver is re-opened until June 18, 2012.

DATES: DOE will accept comments, data, and information regarding the Sanyo petition for waiver received no later than June 18, 2012.

ADDRESSES: Any comments submitted must identify the Sanyo E&E Corporation petition for waiver, and provide case number RF-022.

Comments may be submitted using any of the following methods:

- **Federal eRulemaking Portal:** <http://www.regulations.gov>. Follow the instructions for submitting comments.

- **Email:**

AS_Waiver_Requests@ee.doe.gov.

Include the case number [Case No. RF-022] in the subject line of the message.

- **Mail:** Ms. Brenda Edwards, U.S.

Department of Energy, Building Technologies Program, Mailstop EE-2/J/ 1000 Independence Avenue SW., Washington, DC 20585-0121.

Telephone: (202) 586-2945. Please

submit one signed original paper copy.

- **Hand Delivery/Courier:** Ms. Brenda Edwards, U.S. Department of Energy, Building Technologies Program, 950 L'Enfant Plaza SW., Suite 600, Washington, DC 20024. Please submit one signed original paper copy.

Docket: For access to the docket to read background documents or comments received, visit the U.S. Department of Energy, Resource Room of the Building Technologies Program, 950 L'Enfant Plaza SW., 6th Floor, Washington, DC 20024, (202) 586-2945, between 9:00 a.m. and 4:00 p.m. Monday through Friday, except Federal holidays. Please call Ms. Brenda Edwards at the above telephone number for additional information.

FOR FURTHER INFORMATION CONTACT: Mr. Bryan Berringer, U.S. Department of Energy, Building Technologies Program, Mail Stop EE-2J, Forrestal Building, 1000 Independence Avenue SW., Washington, DC 20585-0121. Telephone: (202) 586-0371. Email: Bryan.Berringer@ee.doe.gov.

SUPPLEMENTARY INFORMATION: On April 2, 2012, DOE published the Sanyo petition for waiver from the residential refrigerator, refrigerator-freezer, and freezer test procedure in the **Federal Register** (77 FR 19654). The notice provided for the submission of comments by May 2, 2012. After the notice of petition for waiver was published, Sanyo provided DOE with