



U.S. DEPARTMENT OF
ENERGY

Energy Conservation Standards Activities

Report to Congress
August 2015

United States Department of Energy
Washington, DC 20585

Message from the Assistant Secretary

I am pleased to provide you with the semi-annual Implementation Report on Energy Conservation Standards Activities of the U.S. Department of Energy (DOE). This report meets the requirements of section 141 of the Energy Policy Act of 2005 (EPACT 2005) and sections 305 and 321 of the Energy Independence and Security Act of 2007 (EISA 2007). Because the reporting intervals and requirements are similar for the EPACT 2005 and EISA 2007 reports, DOE provides a consolidated report.

DOE is required by EPACT 2005 and EISA 2007 to provide semi-annual implementation reports pertaining to the DOE's deadlines for issuance of new or amended energy conservation standards. This implementation report includes a summary of DOE's progress relative to the last report, which was provided on February 8, 2015.

For more information on DOE's Appliance and Equipment Standards Program and the rulemakings detailed in this report, please visit the Program's website at: <http://energy.gov/eere/buildings/appliance-and-equipment-standards-program>.

This report is being provided to the following Members of Congress:

- **The Honorable Joseph R. Biden, Jr.**
President of the Senate
- **The Honorable John Boehner**
Speaker of the House of Representatives
- **The Honorable Lisa Murkowski**
Chairman, U.S. Senate Committee on Energy and Natural Resources
- **The Honorable Maria Cantwell**
Ranking Member, U.S. Senate Committee on Energy and Natural Resources
- **The Honorable Fred Upton**
Chairman, U.S. House Committee on Energy and Commerce
- **The Honorable Frank Pallone, Jr.**
Ranking Member, U.S. House Committee on Energy and Commerce

If you have further questions, please contact me at (202) 586-9220 or Mr. Brad Crowell, Assistant Secretary for Congressional and Intergovernmental Affairs, at (202) 586-5450.

Sincerely,



David T. Danielson
Assistant Secretary
Energy Efficiency and Renewable Energy

Executive Summary

This semi-annual implementation report covers past, present, and future DOE rulemaking activities within the Appliance and Equipment Standards Program.

Since the last report, DOE completed a total of 36 rulemaking actions, including 7 final rules. The final rules amended energy conservation standards for packaged terminal air conditioners and packaged terminal heat pumps; and commercial heating, air-conditioning, and water-heating equipment; and amended test procedures for clothes washers; refrigerated beverage vending machines; dehumidifiers; conventional cooking products; and packaged terminal air conditioners and packaged terminal heat pumps.



ENERGY CONSERVATION STANDARDS ACTIVITIES

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I. Legislative Language

This report responds to legislative language set forth in section 141 of the Energy Policy Act of 2005 (EPACT 2005), Pub. L. 109-58, and sections 305 and 321 of the Energy Independence and Security Act of 2007 (EISA 2007), Pub. L. 110-140, to provide semi-annual updates of the U.S. Department of Energy's (DOE's) progress with respect to rulemaking actions regarding the implementation of energy conservation standards and test procedures.

Section 141 of EPACT 2005 requires both an initial report and semi-annual implementation reports, until such time as DOE has promulgated all of the overdue energy conservation standards. This document represents the eighteenth semi-annual implementation report.

Section 305 of EISA 2007 expands DOE's existing reporting requirements to include progress reports on all rulemaking activities required by EISA 2007. Section 321 of EISA 2007 requires that beginning in July 2013, DOE must submit semi-annual reports to Congress on the lighting rulemakings contained in EISA 2007. It specifically requires a report on whether DOE will meet the deadlines for lighting rulemakings, a description of any impediments to meeting the deadlines, and a specific plan to remedy any failures, including recommendations for additional legislation or resources.

Because the topics and reporting intervals in section 141 of EPACT 2005 and sections 305 and 321 of EISA 2007 are substantially similar, DOE began consolidating the reports starting with the first EISA 2007 implementation report in February 2008. This report constitutes the fifteenth semi-annual EISA 2007 implementation report.

II. Implementation Update

In the following sections, DOE details the notices it has issued since the last implementation report, as well as any statutory deadlines DOE has missed and rulemakings DOE is currently developing to meet the requirements of EPACT 2005, EISA 2007, and the American Energy Manufacturing Technical Corrections Act (AEMTCA).

Issued and/or Published Energy Conservation Standards Rulemaking Documents since the Last Implementation Report

Since publication of the last implementation report, DOE has completed the following energy conservation standards rulemaking notices, as set forth below in reverse chronological order by type of notice and issuance date.

| Product | Event | Issuance Date | Publish Date | Citation |
|---|--|---------------|--|-------------|
| Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps | Final Rule | 6/30/2015 | 7/21/2015 | 80 FR 43162 |
| Commercial Heating, Air-Conditioning, and Water-Heating Equipment | Final Rule | 6/30/2015 | 7/17/2015 | 80 FR 42614 |
| Beverage Vending Machines | NOPR | 7/30/2015 | Not Yet Published in the <i>Federal Register</i> | |
| Battery Chargers | Supplemental Notice of Proposed Rulemaking (SNOPR) | 7/30/2015 | Not Yet Published in the <i>Federal Register</i> | |
| Commercial Prerinse Spray Valves | Notice of Proposed Rulemaking (NOPR) | 6/17/2015 | 7/9/2015 | 80 FR 39486 |
| Ceiling Fan Light Kits | NOPR | 6/26/2015 | Not Yet Published in the <i>Federal Register</i> | |
| Residential Conventional Ovens | NOPR | 5/29/2015 | 6/10/2015 | 80 FR 33030 |
| Residential Dehumidifiers | NOPR | 5/14/2015 | 6/3/2015 | 80 FR 31646 |
| Residential Water Heaters | NOPR | 3/25/2015 | 4/8/2015 | 80 FR 18784 |
| Commercial and Industrial Pumps | NOPR | 3/17/2015 | 4/2/2015 | 80 FR 17826 |

| Product | Event | Issuance Date | Publish Date | Citation |
|--|------------------------------------|---------------|--------------|-------------|
| Residential Boilers | NOPR | 3/13/2015 | 3/31/2015 | 80 FR 17222 |
| Residential Furnaces | NOPR | 2/10/2015 | 3/12/2015 | 80 FR 13120 |
| Hearth Products | NOPR | 1/28/2015 | 2/9/2015 | 80 FR 7082 |
| Portable Air Conditioners | Preliminary Analysis | 2/13/2015 | 2/27/2015 | 80 FR 10628 |
| Fluorescent Lamp Ballasts | Framework | 6/17/2015 | 6/23/2015 | 80 FR 35886 |
| Commercial and Industrial Fans and Blowers | Notice of Data Availability (NODA) | 4/24/2015 | 5/1/2015 | 80 FR 24841 |
| Five Exempted Lamp Types | NODA | 3/10/2015 | 3/17/2015 | 80 FR 13791 |
| Room Air Conditioners | Request for Information (RFI) | 6/9/2015 | 6/18/2015 | 80 FR 34843 |
| Dedicated-Purpose Pool Pumps | RFI | 4/28/2015 | 5/8/2015 | 80 FR 26475 |
| Residential Clothes Dryers | RFI | 3/23/2015 | 3/27/2015 | 80 FR 16309 |
| Pool Heaters and Direct Heating Equipment | RFI | 3/17/2015 | 3/26/2015 | 80 FR 15922 |
| Manufactured Housing | RFI | 2/3/2015 | 2/11/2015 | 80 FR 7550 |

Issued and/or Published Test Procedure Rulemaking Documents since the Last Implementation Report

Since publication of the last implementation report, DOE has completed the following test procedure rulemaking notices, as set forth below in reverse chronological order by type of notice and issuance date.

| Product | Event | Issuance Date | Publish Date | Citation |
|--|------------|---------------|--|-------------|
| Clothes Washers | Final Rule | 7/17/2015 | Not Yet Published in the <i>Federal Register</i> | |
| Refrigerated Beverage Vending Machines | Final Rule | 7/15/2015 | 7/31/2015 | 80 FR 45758 |

| Product | Event | Issuance Date | Publish Date | Citation |
|---|------------|---------------|--|-------------|
| Dehumidifiers | Final Rule | 6/26/2015 | 7/31/2015 | 80 FR 45802 |
| Conventional Cooking Products | Final Rule | 6/18/2015 | 7/2/2015 | 80 FR 37954 |
| Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps | Final Rule | 6/8/2015 | 6/30/2015 | 80 FR 37136 |
| Battery Chargers | NOPR | 7/24/2015 | Not Yet Published in the <i>Federal Register</i> | |
| Light-Emitting Diode Lamps | SNOPR | 6/25/2015 | 7/9/2015 | 80 FR 39644 |
| Ceiling Fans | SNOPR | 5/26/2015 | 6/3/2015 | 80 FR 31487 |
| Medium Base Compact Fluorescent Lamps | NOPR | 7/9/2015 | 7/31/2015 | 80 FR 45724 |
| Commercial Prerinse Spray Valves | NOPR | 6/5/2015 | 6/23/2015 | 80 FR 35874 |
| Residential Water Heaters and Certain Commercial Water Heaters | NOPR | 3/27/2015 | 4/14/2015 | 80 FR 20116 |
| Commercial and Industrial Pumps | NOPR | 3/13/2015 | 4/1/2015 | 80 FR 17586 |
| Residential Furnaces and Boilers | NOPR | 2/13/2015 | 3/11/2015 | 80 FR 12876 |
| Portable Air Conditioners | NOPR | 2/12/2015 | 2/25/2015 | 80 FR 10212 |

Current DOE Rulemakings with a Missed Statutory Deadline

The following table lists currently ongoing rulemakings with outstanding statutory deadlines, which includes three statutory deadlines missed since the last implementation report, as set forth below in chronological order by date of statutory deadline. DOE is working to complete these rulemakings as expeditiously as possible.

| Product | Type | Driver | Statutory Deadline* | Current Rulemaking Stage |
|--|------------------------------|------------|---------------------|--------------------------|
| Elliptical Reflector (ER), Bulge Reflector (BR), and Small-Diameter Incandescent Reflector Lamps | Energy Conservation Standard | EPACT 1992 | 6/30/2009 | On Hold** |
| Battery Chargers | Energy Conservation Standard | EISA 2007 | 7/1/2011 | SNOPR |

| Product | Type | Driver | Statutory Deadline* | Current Rulemaking Stage |
|---|--|---------------|---------------------|--------------------------|
| High-Intensity Discharge Lamps | Test Procedure | EPACT 1992 | 1/1/2013 | Final Rule |
| Enforcement of Regional Standards for Furnaces and Central Air Conditioners | Certification, Compliance, And Enforcement | EISA 2007 | 1/24/2013 | NOPR |
| Commercial Water Heaters | Energy Conservation Standard | AEMTCA | 12/18/2013 (NOPR) | NOPR |
| Ceiling Fan Light Kits | Test Procedure | 7-Year Review | 12/19/2014 | Final Rule |
| Ceiling Fans | Test Procedure | 7-Year Review | 12/19/2014 | Final Rule |
| Residential Central Air Conditioners | Test Procedure | 7-Year Review | 12/19/2014 | SNOPR |
| Compact Fluorescent Lamps | Test Procedure | 7-Year Review | 12/19/2014 | Final Rule |
| Illuminated Exit Signs | Test Procedure | 7-Year Review | 12/19/2014 | NOPR |
| Water Heaters Conversion (Crosswalk) | Test Procedure | AEMTCA | 4/14/2016 | Final Rule |
| LED Lamps | Test Procedure | 7-Year Review | 12/19/2014 | Final Rule |
| Microwave Ovens (Active Mode) | Test Procedure | 7-Year Review | 12/19/2014 | Final Rule |
| Traffic Signal Modules and Pedestrian Modules | Test Procedure | 7-Year Review | 12/19/2014 | NOPR |
| Candelabra-Base Incandescent Lamps and Intermediate-Base Incandescent Lamps | Test Procedure | 7-Year Review | 12/19/2014 | On Hold** |
| External Power Supplies | Energy Conservation Standard | EISA 2007 | 7/1/2015 | Pre-Rule Stage |
| Commercial Packaged Boilers | Energy Conservation Standard | 6-Year Review | 7/22/2015 (NOPR) | NOPR |

* Unless otherwise noted, the statutory deadline is for the publication of either: (1) a final rule or (2) final determination that standards do not need to be amended.

** Pursuant to section 315 of Public Law 112-74 (and subsequently reenacted in section 313 of Public Law 113-235), DOE has ceased work on this rulemaking activity.

Current DOE Rulemakings with an Upcoming Statutory Deadline

The table below reflects the ongoing energy conservation standards and test procedure rulemakings that DOE is developing in order to comply with EPACT 2005, EISA 2007, and AEMTCA, as set forth below in chronological order by date of statutory deadline.

| Product | Type | Driver | Statutory Deadline* | Current Rulemaking Stage |
|---------|------|--------|---------------------|--------------------------|
|---------|------|--------|---------------------|--------------------------|

| Product | Type | Driver | Statutory Deadline* | Current Rulemaking Stage |
|--|------------------------------|------------------|---------------------|--------------------------|
| Beverage Vending Machines | Energy Conservation Standard | 6-Year Review | 8/5/2015 (NOPR) | NOPR |
| Small Electric Motors | Energy Conservation Standard | 6-Year Review | 2/22/2016 (NOPR) | Pre-Rule Stage |
| Direct Heating Equipment and Pool Heaters | Energy Conservation Standard | 6-Year Review | 3/22/2016 (NOPR) | Framework |
| Single Package Vertical Units | Energy Conservation Standard | ASHRAE 90.1 2013 | 4/8/2016 | Final Rule |
| Residential Furnaces and Boilers (Active Mode) | Test Procedure | 7-Year Review | 7/15/2016 | Final Rule |
| Commercial Packaged Boilers | Test Procedure | 7-Year Review | 7/22/2016 | NOPR |
| Dishwashers | Energy Conservation Standard | 6-Year Review | 12/19/2016 | Final Rule |
| General Service Lamps | Energy Conservation Standard | EISA 2007 | 1/1/2017 | NOPR |
| Residential Boilers | Energy Conservation Standard | 6-Year Review | 3/31/2017 | Final Rule |
| Room Air Conditioners | Energy Conservation Standard | 6-Year Review | 4/8/17 (NOPR) | Preliminary Analysis |
| Clothes Dryers | Energy Conservation Standard | 6-Year Review | 8/24/17 (NOPR) | Framework |
| Dehumidifiers | Energy Conservation Standard | 6-Year Review | 6/3/2017 | Final Rule |
| Residential Central Air Conditioners | Energy Conservation Standard | 6-Year Review | 6/6/2017 (NOPR) | NOPR |
| Kitchen Ranges and Ovens | Energy Conservation Standard | 6-Year Review | 6/10/2017 | Final Rule |
| Fluorescent Lamp Ballasts | Energy Conservation Standard | 6-Year Review | 11/14/2017 (NOPR) | Preliminary Analysis |
| External Power Supplies | Test Procedure | 7-Year Review | 6/1/2018 | Final Rule |
| Light Commercial Water Heaters | Test Procedure | 7-Year Review | 5/16/2019 | Final Rule |
| Commercial Prerinse Spray Valves | Test Procedure | 7-Year Review | 10/23/2020 | Final Rule |

* Unless otherwise noted, the statutory deadline is for the publication of either: (1) a final rule or (2) final determination that standards do not need to be amended.