



U.S. DEPARTMENT OF
ENERGY

Energy Conservation Standards Activities

Report to Congress
February 2016

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 August 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 Paul Ryan**
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,

A handwritten signature in black ink, appearing to read "David Danielson". The signature is fluid and cursive, with the first and last names being the most prominent.

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 16 final rules. The final rules pertained to energy conservation standards for residential boilers; refrigerated beverage vending machines; ceiling fan light kits; high-intensity discharge lamps; single package vertical air conditioners and single package vertical heat pumps; grid-enabled water heaters; small, large, and very large commercial package air conditioning and heating equipment, and commercial warm air furnaces; commercial and industrial pumps; and commercial prerinse spray valves; and amended test procedures for residential furnaces and residential boilers; commercial prerinse spray valves; ceiling fan light kits; small, large, and very large commercial package air conditioning and heating equipment; external power supplies; clothes washers; and commercial and industrial 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 nineteenth 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 sixteenth 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 EPCA 2005, EISA 2007, and the American Energy Manufacturing Technical Corrections Act (AEMTCA).

Published and/or Issued 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
Commercial and Industrial Pumps	Final Rule	12/31/2015	1/26/2016	81 FR 4368
Residential Boilers	Final Rule	12/30/2015	1/15/2016	81 FR 2320
Commercial Prerinse Spray Valves	Final Rule	12/29/2015	1/27/2016	81 FR 4748
Refrigerated Beverage Vending Machines	Final Rule	12/23/2015	1/8/2016	81 FR 1028
Ceiling Fan Light Kits	Final Rule	12/17/2015	1/6/2016	81 FR 580
Single Package Vertical Air Conditioners and Single Package Vertical Heat Pumps	Final Rule	8/28/2015	9/23/2015	80 FR 57438
Grid-Enabled Water Heaters	Final Rule	8/4/2015	8/11/2015	80 FR 48004
High-Intensity Discharge Lamps	Final Determination)	12/2/2015	12/9/2015	80 FR 76355
Small, Large, and Very Large Commercial Package Air Conditioning and Heating Equipment, and Commercial Warm Air Furnaces	Direct Final Rule	12/17/2015	1/15/2016	81 FR 2420
Walk-in Coolers and Walk-in Freezers	Final Rule Technical Amendment	11/4/2015	11/12/2015	80 FR 69837
Small, Large, and Very Large Commercial Package Air Conditioning and Heating Equipment, and Commercial Warm Air Furnaces	Supplemental Notice of Proposed Rulemaking (SNOPR)	12/17/2015	1/15/2016	81 FR 2111
Battery Chargers	SNOPR	7/30/2015	9/1/2015	80 FR 52850*

Product	Event	Issuance Date	Publish Date	Citation
Ceiling Fans	Notice of Proposed Rulemaking (NOPR)	12/23/2015	1/13/2016	81 FR 1688
Enforcement of Regional Standards for Central Air Conditioners and Central Air Conditioning Heat Pumps (Certification, Compliance, and Enforcement)	NOPR	11/12/2015	11/19/2015	80 FR 72373
External Power Supplies	NOPR	11/10/2015	11/18/2015	80 FR 71984
Refrigerated Beverage Vending Machines	NOPR	7/30/2015	8/19/2015	80 FR 50462*
Ceiling Fan Light Kits	NOPR	6/18/2015	8/13/2015	80 FR 48624*
Commercial Packaged Boilers (Natural Draft)	Withdrawal of Proposed Coverage Determination	8/14/2015	8/25/2015	80 FR 51487
Miscellaneous Refrigeration Products	Notice of Data Availability (NODA)	12/4/2015	12/15/2015	80 FR 77589
Commercial Prerinse Spray Valves	NODA	11/16/2015	11/20/2015	80 FR 72608**
Pool Heaters	NODA	10/15/2015	10/26/2015	80 FR 65169
Residential Furnaces	NODA	9/4/2015	9/14/2015	80 FR 55038
Central Air Conditioners and Central Air Conditioning Heat Pumps	NODA	8/21/2015	8/28/2015	80 FR 52206

* These items were included in the 2015 August *Report to Congress*, as they had issued before July 31, 2015. However, they were not published in the *Federal Register* by that time, and therefore are listed in this edition as well.

** Note that this NODA withdrew a NODA issued on November 5, 2015, and published on November 12, 2015 (80 FR 69888), due to errors in its printing and republished a corrected version in its entirety.

Published and/or Issued 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
Commercial and Industrial Pumps	Final Rule	12/30/2015	1/25/2016	81 FR 4086
Residential Furnaces and Residential Boilers	Final Rule	12/29/2015	1/15/2016	81 FR 2628
Commercial Prerinse Spray Valves	Final Rule	12/18/2015	12/30/2015	80 FR 81441
Ceiling Fan Light Kits	Final Rule	12/15/2015	12/24/2015	80 FR 80209
Small, Large, and Very Large Commercial Package Air Conditioning and Heating Equipment	Final Rule	12/11/2015	12/23/2015	80 FR 79655
External Power Supplies	Final Rule	8/17/2015	8/25/2015	80 FR 51424
Clothes Washers	Final Rule	7/17/2015	8/5/2015	80 FR 46730*
Portable Air Conditioners	SNOPR	11/17/2015	11/27/2015	80 FR 74020
Central Air Conditioners and Central Air Conditioning Heat Pumps	SNOPR	8/21/2015	11/9/2015	80 FR 69278
Fluorescent Lamp Ballasts	NOPR	10/27/2015	11/4/2015	80 FR 68274
Small, Large, and Very Large Commercial Package Air Conditioning and Heating Equipment	NOPR	7/27/2015	8/6/2015	80 FR 46870
Battery Chargers	NOPR	7/27/2015	8/6/2015	80 FR 46855*
Small, Large, and Very Large Commercial Package Air Conditioning and Heating Equipment	NOPM	8/26/2015	9/1/2015	80 FR 52676

* These items were included in the 2015 August *Report to Congress*, as they had issued before July 31, 2015. However, they were not published in the *Federal Register* by that time, and therefore are listed in this edition as well.

Current DOE Rulemakings with a Missed Statutory Deadline

The following table lists currently ongoing rulemakings with outstanding statutory deadlines, 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	Final Rule
Manufactured Housing	Energy Conservation Standard	EISA 2007	12/19/2011	Final Rule
Enforcement of Regional Standards for Central Air Conditioners and Central Air Conditioning Heat Pumps	Certification, Compliance, and Enforcement	EISA 2007	1/24/2013	Final Rule
Commercial Water Heaters	Energy Conservation Standard	AEMTCA	12/18/2013 (NOPR)	NOPR
Ceiling Fans	Test Procedure	7-Year Review	12/19/2014	Final Rule
Residential Central Air Conditioners	Test Procedure	7-Year Review	12/19/2014	Final Rule
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
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	Final Rule
Water Heaters Conversion (Crosswalk)	Test Procedure	AEMTCA	7/13/2015	Final Rule
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 court orders, EISA 2007, and AEMTCA, as set forth below in chronological order by date of statutory deadline.

Product	Type	Driver	Statutory Deadline*	Current Rulemaking Stage
Small Electric Motors	Energy Conservation Standard	6-Year Review	3/9/2016** (NOPR)	Pre-Rule Stage
Direct Heating Equipment and Pool Heaters	Energy Conservation Standard	6-Year Review	4/16/2016** (NOPR)	Preliminary Analysis
Residential Furnaces	Energy Conservation Standards	Court Order	4/24/2016	Final Rule
Commercial Packaged Boilers	Test Procedure	7-Year Review	7/22/2016	NOPR
Dishwashers	Energy Conservation Standard	6-Year Review	12/19/2016	SNOPR
General Service Lamps	Energy Conservation Standard	EISA 2007	1/1/2017	NOPR
Room Air Conditioners	Energy Conservation Standard	6-Year Review	4/21/2017** (NOPR)	Preliminary Analysis
Clothes Dryers	Energy Conservation Standard	6-Year Review	4/21/2017** (NOPR)	Framework
Dehumidifiers	Energy Conservation Standard	6-Year Review	6/3/2017	Final Rule
Residential Conventional Ovens	Energy Conservation Standard	6-Year Review	6/10/2017	Final Rule
Residential Cooktops	Energy Conservation Standard	6-Year Review	6/10/2017	Final Rule
Central Air Conditioners	Energy Conservation Standard	6-Year Review	6/27/2017 (NOPR)	Direct Final Rule
Fluorescent Lamp Ballasts	Energy Conservation Standard	6-Year Review	11/14/2017 (NOPR)	Preliminary Analysis
Battery Chargers	Test Procedure	7-Year Review	6/1/2018	Final Rule
Commercial Water Heaters	Test Procedure	7-Year Review	5/16/2019	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.

** These dates were changed from those given in the 2015 August *Report to Congress* following guidance to use the date of final rule publication for six-year review deadlines.