



U.S. DEPARTMENT OF
ENERGY

Energy Conservation Standards Activities

Report to Congress
December 2018

United States Department of Energy
Washington, DC 20585

Message from the Acting 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 section 305 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 DOE's deadlines regarding new or amended energy conservation standards. This implementation report includes a summary of DOE's progress relative to the last report.

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 Michael R. Pence**
President of the Senate
- **The Honorable Paul D. Ryan**
Speaker of the House of Representatives
- **The Honorable Lisa Murkowski**
Chairman, Senate Committee on Energy and Natural Resources
- **The Honorable Maria Cantwell**
Ranking Member, Senate Committee on Energy and Natural Resources
- **The Honorable Greg Walden**
Chairman, House Committee on Energy and Commerce
- **The Honorable Frank Pallone, Jr.**
Ranking Member, House Committee on Energy and Commerce

If you have further questions, please contact me at (202) 586-9220 or Mr. Dwayne Bolton, Principal Deputy Assistant Secretary or Mr. Shawn Affolter, Deputy Assistant Secretary for Senate Affairs, Office of Congressional and Intergovernmental Affairs, at (202) 586-5450.

Sincerely,

A handwritten signature in cursive script that reads "Cathy Tripodi".

Cathy Tripodi
Acting 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 has completed one final rule pertaining to energy conservation standards for ceiling fan light kits and one final rule pertaining to test procedures for light-emitting diode lamps.



ENERGY CONSERVATION STANDARDS ACTIVITIES

Table of Contents

I. Legislative Language	1
II. Implementation Update	2
• Published Energy Conservation Standards Rulemaking Documents Since the Last Implementation Report.....	2
• Published Test Procedure Rulemaking Documents Since the Last Implementation Report.....	2
• Current DOE Rulemakings with a Missed Statutory Deadline.	2
• Current DOE Rulemakings with an Upcoming Statutory Deadline.....	4

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 section 305 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 twenty-second 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.

Because the topics and reporting intervals in section 141 of EPACT 2005 and section 305 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 nineteenth 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 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 publication date.

Product	Event	Publish Date	Citation
Ceiling Fan Light Kits	Final Rule	5/16/2018	83 FR 22587
Manufactured Housing	Notice of Data Availability (NODA)	8/3/2018	83 FR 38073
5 Exempted Lamp Types	NODA	7/30/2018	83 FR 36479

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 publication date.

Product	Event	Publish Date	Citation
Light-Emitting Diode Lamps	Final Rule	9/21/2018	83 FR 47806
Three-Phase Commercial Air-Cooled Air Conditioners and Heat Pumps, less than 65,000 Btu/h	Request for Information	10/2/2018	83 FR 49501
Single Package Vertical Air Conditioners and Single Package Vertical Heat Pumps	Request for Information	7/20/2018	83 FR 34499
Commercial Water-Sourced Heat Pumps	Request for Information	6/22/2018	83 FR 29048
Metal Halide Lamp Fixtures	Request for Information	5/30/2018	83 FR 24680

Current DOE Rulemakings with a Missed Statutory Deadline

The following table lists currently ongoing rulemakings with outstanding judicial or statutory deadlines. DOE is working to complete these rulemakings as expeditiously as possible.

Product	Type	Driver	Current Rulemaking Stage
Clothes Dryers	Energy Conservation Standard	6-Year Review	In Development

Product	Type	Driver	Current Rulemaking Stage
Commercial Water Heaters - Unfired Hot Water Storage Tanks	Energy Conservation Standard	AEMTCA/6-Year Review	In Development
Commercial Water Heaters - Unfired Hot Water Storage Tanks	Test Procedure	7-Year Review	In Development
Commercial Water Heaters (Storage Water Heaters and Instantaneous Water Heaters)	Energy Conservation Standard	AEMTCA/6-Year Review	Final Rule
Computer Room Air Conditioners	Energy Conservation Standard	ASHRAE Trigger	In Development
Computer Room Air Conditioners	Test Procedure	ASHRAE Trigger	Notice of Proposed Rulemaking (NOPR)/Determination
Consumer Cooking Products	Energy Conservation Standard	6-Year Review	NOPR/Determination
Consumer Water Heaters	Energy Conservation Standard	6-Year Review	In Development
Commercial Unitary Air Conditioners - Evaporatively-Cooled	Energy Conservation Standard	6-Year Review	NOPR/Determination
Commercial Unitary Air Conditioners - Water-Cooled	Energy Conservation Standard	6-Year Review	NOPR/Determination
Dedicated Outdoor Air System	Energy Conservation Standard	ASHRAE Trigger	In Development
Dedicated Outdoor Air System	Test Procedure	ASHRAE Trigger	NOPR/Determination
Fluorescent Lamp Ballast	Energy Conservation Standard	6-Year Review	In Development
Fluorescent Lamp Ballast	Test Procedure	7-Year Review	NOPR/Determination
Furnaces (Non-weatherized Gas Furnaces & Mobile Home Gas Furnaces)	Energy Conservation Standard	Court Action	NOPR/Determination
General Service Lamps	Energy Conservation Standard	EISA 2007	NOPR/Determination
Illuminated Exit Signs	Test Procedure	7-Year Review	In Development
Manufactured Housing	Energy Conservation Standard	EISA 2007	NOPR
Metal Halide Lamp Fixtures	Test Procedure	7-Year Review	In Development
Pool Heaters	Energy Conservation Standard	6-Year Review	In Development
Refrigerators, Freezers and Refrigerator-Freezers	Energy Conservation Standard	6-Year Review	In Development
Residential Clothes Washers	Energy Conservation Standard	6-Year Review	In Development
Room Air Conditioners	Energy Conservation Standard	6-Year Review	In Development
Room Air Conditioners	Test Procedure	7-Year Review	NOPR/Determination
Small Electric Motors	Energy Conservation Standard	6-Year Review	In Development
Small Electric Motors	Test Procedure	7-Year Review	NOPR/Determination
Traffic Signal Modules and Pedestrian Modules	Test Procedure	EPACT 2005	In Development
Variable Refrigerant Flow Systems	Energy Conservation Standard	ASHRAE Trigger	In Development

Product	Type	Driver	Current Rulemaking Stage
Variable Refrigerant Flow Systems	Test Procedure	ASHRAE Trigger	In Development

Other Consumer Product and Commercial/Industrial Equipment Activities

The table below reflects the status of other ongoing energy conservation standards and test procedure activities for products and equipment over which DOE has regulatory authority.

Product	Type	Driver	Current Rulemaking Stage
3-Phase Commercial Unitary Air-Cooled Air Conditioners and Heat Pumps, less than 65,000 Btu/h	Test Procedure	7-Year Review	In Development
Automatic Commercial Ice Makers	Test Procedure	7-Year Review	In Development
Clothes Dryers	Test Procedure	7-Year Review	In Development
Commercial Clothes Washers	Energy Conservation Standard	6-Year Review	Inactive
Commercial Refrigeration Equipment	Energy Conservation Standard	EPACT 2005	In Development
Commercial Unitary Air Conditioners - Evaporatively-Cooled	Test Procedure	7-Year Review / ASHRAE Trigger	NOPR/Determination
Commercial Unitary Air Conditioners - Water-Cooled	Test Procedure	7-Year Review / ASHRAE Trigger	NOPR/Determination
Direct Heating Equipment	Energy Conservation Standard	6-Year Review	In Development
Consumer Dishwashers	Energy Conservation Standard	6-Year Review	In Development
Dishwashers	Test Procedure	7-Year Review	In Development
Distribution Transformers	Energy Conservation Standard	6-Year Review	In Development
Distribution Transformers	Test Procedure	7-Year Review	NOPR/Determination
Electric Motors	Energy Conservation Standard	6-Year Review	Inactive
Electric Motors	Test Procedure	7-Year Review	Inactive
External Power Supplies - Non-Class A	Energy Conservation Standard	6-Year Review	In Development
Faucets	Test Procedure	7-Year Review	Inactive
Furnace Fans	Energy Conservation Standard	6-Year Review	Inactive
General Service Fluorescent Lamps	Energy Conservation Standard	6-Year Review	Inactive
General Service Fluorescent Lamps	Test Procedure	7-Year Review	NOPR/Determination
General Service Incandescent Lamps	Test Procedure	7-Year Review	NOPR/Determination
Incandescent Reflector Lamps	Test Procedure	7-Year Review	NOPR/Determination
Metal Halide Lamp Fixtures	Energy Conservation Standard	EISA 2007	In Development
Microwave Ovens	Energy Conservation Standard	6-Year Review	In Development
Microwave Ovens	Test Procedure	7-Year Review	NOPR/Determination

Product	Type	Driver	Current Rulemaking Stage
Residential Clothes Washers	Test Procedure	7-Year Review	In Development
Showerheads	Test Procedure	7-Year Review	Inactive
Single Package Vertical Air Conditioners and Heat Pumps	Test Procedure	7-Year Review	In Development
Televisions	Test Procedure	7-Year Review	NOPR/Determination
Urinals	Test Procedure	ASME Update / 7-Year Review	In Development
Walk-in Coolers and Freezers	Energy Conservation Standard	EISA 2007	In Development
Water Closets	Test Procedure	ASME Update / 7-Year Review	In Development
Water-Source Commercial Heat Pumps	Test Procedure	7-Year Review / ASHRAE Trigger	NOPR/Determination