

This document, concerning dehumidifiers is an action issued by the Department of Energy. Though it is not intended or expected, should any discrepancy occur between the document posted here and the document published in the Federal Register, the Federal Register publication controls. This document is being made available through the Internet solely as a means to facilitate the public's access to this document.

[6450-01-P]

DEPARTMENT OF ENERGY

10 CFR Parts 429 and 430

[Docket No. EERE-2012-BT-STD-0027]

RIN: 1904-AC81

Energy Conservation Standards for Residential Dehumidifiers: Public Meeting and Availability of the Preliminary Technical Support Document

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

ACTION: Notice of public meeting and availability of preliminary technical support document.

SUMMARY: The U.S. Department of Energy (DOE) will hold a public meeting to discuss and receive comments on the preliminary analysis it has conducted for purposes of establishing energy conservation standards for residential dehumidifiers. The meeting will cover the analytical framework, models, and tools that DOE is using to evaluate potential standards for this product; the results of preliminary analyses performed by DOE for this product; the potential energy conservation standard levels derived from these analyses that DOE could consider for this product; and any other issues relevant to the development of energy conservation standards for this product. In addition, DOE

encourages written comments on these subjects. To inform interested parties and to facilitate this process, DOE has prepared an agenda, a preliminary technical support document (TSD), and briefing materials, which are available on the DOE website at: http://www1.eere.energy.gov/buildings/appliance_standards/rulemaking.aspx/ruleid/47.

DATES: DOE will hold a public meeting on Friday, June 13, 2014 from 1 p.m. to 4 p.m., in Washington, DC. Additionally, DOE plans to allow for participation in the public meeting via webinar. DOE will accept comments, data, and other information regarding this rulemaking before or after the public meeting, but no later than **[INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]**. See section IV, “Public Participation,” of this notice of public meeting (NOPM) for details.

ADDRESSES: The public meeting will be held at the U.S. Department of Energy, Forrestal Building, Room 8E-089, 1000 Independence Avenue, SW., Washington, DC 20585-0121.

Interested persons may submit comments, identified by docket number EERE-2012-BT-STD-0027 and/or Regulation Identification Number (RIN) 1904-AC81, by any of the following methods:

- Federal eRulemaking Portal: www.regulations.gov. Follow the instructions for submitting comments.

- Email: ResDehumidifier2012STD0027@ee.doe.gov. Include the docket number EERE-2012-BT-STD-0027 and/or RIN 1904-AC81 in the subject line of the message.
- Mail: Ms. Brenda Edwards, U.S. Department of Energy, Building Technologies Program, Mailstop EE-5B, 1000 Independence Avenue, SW., Washington, DC 20585-0121. If possible, please submit all items on a compact disc (CD), in which case it is not necessary to include printed copies. [Please note that comments and CDs sent by mail are often delayed and may be damaged by mail screening processes.]
- Hand Delivery/Courier: Ms. Brenda Edwards, U.S. Department of Energy, Building Technologies Office, 950 L'Enfant Plaza, SW., Suite 600, Washington, DC 20024. Telephone (202) 586-2945. If possible, please submit all items on CD, in which case it is not necessary to include printed copies.

Docket: The docket is available for review at www.regulations.gov, including *Federal Register* notices, framework documents, public meeting attendee lists and transcripts, comments, and other supporting documents/materials. All documents in the docket are listed in the www.regulations.gov index. However, not all documents listed in the index may be publicly available, such as information that is exempt from public disclosure.

The rulemaking web page can be found at:

http://www1.eere.energy.gov/buildings/appliance_standards/rulemaking.aspx/ruleid/47.

This web page contains a link to the docket for this notice on the regulation.gov site. The regulations.gov web page contains instructions on how to access all documents in the docket, including public comments.

For detailed instructions on submitting comments and additional information on the rulemaking process, see section IV, “Public Participation,” of this document. For further information on how to submit a comment, review other public comments and the docket, or participate in the public meeting, contact Ms. Brenda Edwards at (202) 586-2945 or by email: Brenda.Edwards@ee.doe.gov.

FOR FURTHER INFORMATION CONTACT: Ms Ashley Armstrong, U.S.

Department of Energy, Office of Energy Efficiency and Renewable Energy, Building Technologies, EE-5B, 1000 Independence Avenue, SW., Washington, DC 20585-0121.

E-mail: dehumidifiers@ee.doe.gov. Or visit DOE’s dehumidifier web page at

http://www1.eere.energy.gov/buildings/appliance_standards/rulemaking.aspx/ruleid/47

for information about any existing standards and test procedures, and the history and impacts of previous DOE regulatory actions, for this category of products.

In the Office of the General Counsel, contact Ms. Elizabeth Kohl, U.S.

Department of Energy, Office of the General Counsel, GC-71, 1000 Independence Avenue, SW., Washington, DC 20585-0121. Telephone: (202) 586-7796. E-mail:

elizabeth.kohl@hq.doe.gov.

SUPPLEMENTARY INFORMATION:

Table of Contents

- I. Authority
- II. History of Energy Conservation Standards Rulemaking for Residential Dehumidifiers
 - A. Background
 - B. Current Rulemaking Process
- III. Summary of the Analyses Performed by DOE
 - A. Engineering Analysis
 - B. Markups To Determine Prices
 - C. Energy Use Analysis
 - D. Life-Cycle Cost and Payback Period Analyses
 - E. National Impact Analysis
- IV. Public Participation
 - A. Attendance at Public Meeting
 - B. Procedure for Submitting Requests to Speak
 - C. Conduct of Public Meeting
 - D. Submission of Comments
- V. Approval of the Office of the Secretary

I. Authority

Title III, Part B¹ of the Energy Policy and Conservation Act of 1975, as amended, (EPCA or the Act), Pub. L. 94-163 (42 U.S.C. 6291-6309, as codified) sets forth a variety of provisions designed to improve energy efficiency and established the Energy Conservation Program for Consumer Products Other Than Automobiles, a program covering most major household appliances.²

¹ For editorial reasons, upon codification in the U.S. Code, Part B was redesignated Part A.

² All references to EPCA in this document refer to the statute as amended through the American Energy Manufacturing Technical Corrections Act (AEMTCA), Pub. L. 112-210 (Dec. 18, 2012)

EPCA established energy conservation standards for dehumidifiers³ manufactured as of October 1, 2007. 42 U.S.C. 6295(g). EPCA also required that DOE issue a final rule by October 1, 2009, to determine whether these standards should be amended. (Id.) Compliance with any amended standards would be required for dehumidifiers manufactured as of October 1, 2012. (Id.) In the event that DOE did not publish a final rule, EPCA specified a new set of amended standards with a compliance date of October 1, 2012. (Id.) Congress subsequently amended EPCA to prescribe new energy conservation standards for dehumidifiers manufactured on or after October 1, 2012. DOE codified these standards at 10 CFR 430.32(v)(2). 74 FR 12058 (Mar. 23, 2009).

EPCA also requires that, not later than 6 years after the issuance of a final rule establishing or amending a standard, DOE publish a notice of proposed rulemaking (NOPR) proposing new standards or a notice of determination that the existing standards do not need to be amended. (42 U.S.C. 6295(m)(1))

DOE is required to consider standards that: (1) achieve the maximum improvement in energy efficiency that is technologically feasible and economically justified; and (2) result in significant conservation of energy. (42 U.S.C. 6295(o)(2)(A) and (o)(3)(B)) To determine whether a proposed standard is economically justified, DOE will, after receiving comments on the proposed standard, determine whether the benefits of the standard exceed its burdens, considering, to the greatest extent practicable, the

³ Dehumidifiers are defined as self-contained, electrically operated, and mechanically encased assemblies consisting of: (1) a refrigerated surface (evaporator) that condenses moisture from the atmosphere; (2) a refrigerating system, including an electric motor; (3) an air-circulating fan; and (4) a means for collecting or disposing of the condensate. (42 U.S.C. 6291(34))

following seven factors:

1. The economic impact of the standard on manufacturers and consumers of products subject to the standard;
2. The savings in operating costs throughout the estimated average life of the covered products in the type (or class) compared to any increase in the price, initial charges, or maintenance expenses for the covered products which are likely to result from the standard;
3. The total projected amount of energy savings likely to result directly from the standard;
4. Any lessening of the utility or the performance of the covered products likely to result from the standard;
5. The impact of any lessening of competition, as determined in writing by the Attorney General, that is likely to result from the standard;
6. The need for national energy conservation; and
7. Other factors the Secretary of Energy considers relevant.

(42 U.S.C. 6295(o)(2)(B)(i))

Before proposing a standard, DOE typically seeks public input on the analytical framework, models, and tools that DOE will use to evaluate standards for the product at issue and the results of preliminary analyses DOE performed for the product. Today's notice announces the availability of the preliminary TSD, which details the preliminary

analyses, discusses the comments DOE received from interested parties on the Framework Document, and summarizes the preliminary results of DOE's analyses. In addition, DOE is announcing a public meeting to solicit feedback from interested parties on its analytical framework, models, and preliminary results.

II. History of the Current Energy Conservation Standards Rulemaking for Residential Dehumidifiers

In initiating this rulemaking, DOE prepared a Framework Document, "Energy Conservation Standards Rulemaking Framework Document for Residential Dehumidifiers," which describes the procedural and analytical approaches DOE anticipates using to evaluate energy conservation standards for residential dehumidifiers. This document is available at:

http://www1.eere.energy.gov/buildings/appliance_standards/rulemaking.aspx/ruleid/47.

DOE held a public meeting on September 24, 2012, at which it described the various analyses DOE would conduct as part of the rulemaking, such as the engineering analysis, the life-cycle cost (LCC) and payback period (PBP) analyses, and the national impact analysis (NIA). Representatives for manufacturers, trade associations, environmental and energy efficiency advocates, and other interested parties attended the meeting.

Comments received since publication of the Framework Document have helped DOE identify and resolve issues related to the preliminary analyses. Chapter 2 of the

preliminary TSD summarizes and addresses the comments received.

III. Summary of the Analyses Performed by DOE

For the products covered in this rulemaking, DOE conducted in-depth technical analyses in the following areas: (1) engineering; (2) markups to determine product price; (3) energy use; (4) life-cycle cost and payback period; and (5) national impacts. The preliminary TSD that presents the methodology and results of each of these analyses is available at

http://www1.eere.energy.gov/buildings/appliance_standards/rulemaking.aspx/ruleid/47.

DOE also conducted, and has included in the preliminary TSD, several other analyses that support the major analyses or are preliminary analyses that will be expanded upon for a notice of proposed rulemaking (NOPR) if DOE proposes that amended energy conservation standards are technologically feasible, economically justified, and would save a significant amount of energy. These analyses include: (1) the market and technology assessment; (2) the screening analysis, which contributes to the engineering analysis; and (3) the shipments analysis, which contributes to the LCC and PBP analysis and NIA. In addition to these analyses, DOE has begun preliminary work on the manufacturer impact analysis and has identified the methods to be used for the consumer subgroup analysis, the emissions analysis, the employment impact analysis, the regulatory impact analysis, and the utility impact analysis. DOE will expand on these analyses in any notice of proposed rulemaking (NOPR).

A. Engineering Analysis

The engineering analysis establishes the relationship between the cost and efficiency levels of the product that DOE is evaluating as potential energy conservation standards. This relationship serves as the basis for cost-benefit calculations for individual consumers, manufacturers, and the nation. The engineering analysis identifies representative baseline products, which is the starting point for analyzing technologies that provide energy efficiency improvements. “Baseline products” refers to a model or models having features and technologies typically found in minimally-efficient products currently available on the market and, for products already subject to energy conservation standards, a model that just meets the current standard. After identifying the baseline models, DOE estimated manufacturer selling prices by using a consistent methodology and pricing scheme that includes material costs and manufacturer markups. Chapter 5 of the preliminary TSD discusses the engineering analysis.

B. Markups To Determine Prices

DOE derives customer prices based on manufacturer markups, retailer markups, distributor markups, contractor markups (where appropriate), and sales taxes. In deriving these markups, DOE determines the major distribution channels for product sales, the markup associated with each party in each distribution channel, and the existence and magnitude of differences between markups for baseline products (baseline markups) and higher-efficiency products (incremental markups). DOE calculates both overall baseline

and overall incremental markups based on the markups at each step in each distribution channel. Chapter 6 of the preliminary TSD addresses the markups analysis.

C. Energy Use Analysis

The energy use analysis provides estimates of the annual energy consumption of residential dehumidifiers. The energy use analysis seeks to estimate the range of energy consumption of the products that meet each of the efficiency levels considered in a given rulemaking as they are used in the field. DOE uses these values in the LCC and PBP analyses and in the NIA. Chapter 7 of the preliminary TSD addresses the energy use analysis.

D. Life-Cycle Cost and Payback Period Analyses

The LCC and PBP analyses determine the economic impact of potential standards on individual consumers. The LCC is the total cost of purchasing, installing and operating a considered product over the course of its lifetime. The LCC analysis compares the LCCs of products designed to meet possible energy conservation standards with the LCC of the product likely to be installed in the absence of standards. DOE determines LCCs by considering: (1) total installed cost to the purchaser (which consists of manufacturer selling price, distribution chain markups, sales taxes, and installation cost); (2) the operating cost of the product (energy cost, water and wastewater cost in some cases, and maintenance and repair cost); (3) product lifetime; and (4) a discount rate that reflects the real consumer cost of capital and puts the LCC in present-value

terms. The PBP represents the number of years needed to recover the increase in purchase price (including installation cost) of higher-efficiency products through savings in the operating cost of the product. PBP is calculated by dividing the incremental increase in installed cost of the higher efficiency product, compared to the baseline product, by the annual savings in operating costs. Chapter 8 of the preliminary TSD addresses the LCC and PBP analyses.

E. National Impact Analysis

The NIA estimates the national energy savings (NES) and the net present value (NPV) of total consumer costs and savings expected to result from amended standards at specific efficiency levels (referred to as candidate standard levels). DOE calculated NES and NPV for each candidate standard level for residential dehumidifiers as the difference between a base-case forecast (without amended standards) and the standards-case forecast (with standards). Cumulative energy savings are the sum of the annual NES determined for the lifetime of the products shipped from 2019 to 2048. The NPV is the sum over time of the discounted net savings each year, which consists of the difference between total operating cost savings and increases in total installed costs. Critical inputs to this analysis include shipments projections, estimated product lifetimes, product installed costs and operating costs, product annual energy consumption, the base case efficiency projection, and discount rates. Chapter 10 of the preliminary TSD addresses the NIA.

IV. Public Participation

DOE invites input from the public on all the topics described above. The preliminary analytical results are subject to revision following further review and input from the public. A complete and revised TSD will be made available upon issuance of a NOPR. The final rule establishing any amended energy conservation standards will contain the final analytical results and will be accompanied by a final rule TSD.

DOE encourages those who wish to participate in the public meeting to obtain the preliminary TSD from DOE's website and to be prepared to discuss its contents. The preliminary TSD is available at:

http://www1.eere.energy.gov/buildings/appliance_standards/rulemaking.aspx/ruleid/47.

However, public meeting participants need not limit their comments to the topics identified in the preliminary TSD; DOE is also interested in receiving views concerning other relevant issues that participants believe would affect energy conservation standards for this product or that DOE should address in the NOPR.

Furthermore, DOE welcomes all interested parties, regardless of whether they participate in the public meeting, to submit in writing by **[INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER]** comments, data, and information on matters addressed in the preliminary TSD and on other matters relevant to consideration of energy conservation standards for residential dehumidifiers.

The public meeting will be conducted in an informal conference style. A court reporter will be present to record the minutes of the meeting. There shall be no discussion

of proprietary information, costs or prices, market shares, or other commercial matters regulated by United States antitrust laws.

After the public meeting and the closing of the comment period, DOE will consider all timely-submitted comments and additional information obtained from interested parties, as well as information obtained through further analyses. Afterwards, the Department will publish either a determination that the standards for residential dehumidifiers need not be amended or a NOPR proposing to amend those standards. The NOPR will include proposed energy conservation standards for the products covered by the rulemaking, and members of the public will be given an opportunity to submit written and oral comments on the proposed standards.

A. Attendance at Public Meeting

The time and date of the public meeting are listed in the **DATES** and **ADDRESSES** sections at the beginning of this notice. The public meeting will be held at the U.S. Department of Energy, Forrestal Building, Room 8E-089, 1000 Independence Avenue, SW., Washington, DC 20585-0121. To attend the public meeting, please notify Ms. Brenda Edwards at (202) 586-2945.

Please note that foreign nationals participating in the public meeting are subject to advance security screening procedures which require advance notice prior to attendance at the public meeting. If a foreign national wishes to participate in the public meeting, please inform DOE of this fact as soon as possible by contacting Ms. Brenda Edwards at (202) 586-2945 so that the necessary procedures can be completed.

DOE requires visitors to have laptops and other devices, such as tablets, checked upon entry into the building. Please report to the visitor's desk to have devices checked before proceeding through security.

The purpose of the meeting is to receive comments and to help DOE understand potential issues associated with this rulemaking. DOE must receive requests to speak at the meeting before May 30, 2014 at 4:00 p.m. DOE must receive a signed original and an electronic copy of statements to be given at the public meeting before May 30, 2014 at 4:00 p.m.

You can attend the public meeting via webinar, and registration information, participant instructions, and information about the capabilities available to webinar participants will be published on the following website:

http://www1.eere.energy.gov/buildings/appliance_standards/rulemaking.aspx/ruleid/47.

Participants are responsible for ensuring their computer systems are compatible with the webinar software.

B. Procedure for Submitting Requests to Speak

Any person who has an interest in today's notice or who is a representative of a group or class of persons that has an interest in these issues may request an opportunity to make an oral presentation. Such persons may hand-deliver requests to speak, along with a computer diskette or CD in WordPerfect, Microsoft Word, PDF, or text (ASCII) file format to Ms. Brenda Edwards at the address shown in the **ADDRESSES** section at the beginning of this notice between 9:00 a.m. and 4:00 p.m. Monday through Friday, except

Federal holidays. Requests may also be sent by mail to the address shown in the **ADDRESSES** section or email to Brenda.Edwards@ee.doe.gov.

Persons requesting to speak should briefly describe the nature of their interest in this rulemaking and provide a telephone number for contact. DOE requests persons selected to be heard to submit an advance copy of their statements at least two weeks before the public meeting. At its discretion, DOE may permit any person who cannot supply an advance copy of their statement to participate, if that person has made advance alternative arrangements with the Building Technologies Program. The request to give an oral presentation should ask for such alternative arrangements.

C. Conduct of Public Meeting

DOE will designate a DOE official to preside at the public meeting and may also employ a professional facilitator to aid discussion. The meeting will not be a judicial or evidentiary-type public hearing, but DOE will conduct it in accordance with section 336 of EPCA. (42 U.S.C. 6306) A court reporter will record the proceedings and prepare a transcript. DOE reserves the right to schedule the order of presentations and to establish the procedures governing the conduct of the public meeting. After the public meeting, interested parties may submit further comments on the proceedings as well as on any aspect of the rulemaking until the end of the comment period.

The public meeting will be conducted in an informal conference style. DOE will present summaries of comments received before the public meeting, allow time for presentations by participants, and encourage all interested parties to share their views on

issues affecting this rulemaking. Each participant will be allowed to make a prepared general statement (within DOE-determined time limits) prior to the discussion of specific topics. DOE will permit other participants to comment briefly on any general statements.

At the end of all prepared statements on a topic, DOE will permit participants to clarify their statements briefly and comment on statements made by others. Participants should be prepared to answer questions from DOE and other participants concerning these issues. DOE representatives may also ask questions of participants concerning other matters relevant to this rulemaking. The official conducting the public meeting will accept additional comments or questions from those attending, as time permits. The presiding official will announce any further procedural rules or modification of the above procedures that may be needed for the proper conduct of the public meeting.

A transcript of the public meeting will be posted on the DOE website and will also be included in the docket, which can be viewed as described in the **Docket** section at the beginning of this notice. In addition, any person may buy a copy of the transcript from the transcribing reporter.

D. Submission of Comments

DOE will accept comments, data, and other information regarding this rulemaking before or after the public meeting, but no later than the date provided at the beginning of this notice. Please submit comments, data, and other information as provided in the **ADDRESSES** section. Submit electronic comments in WordPerfect, Microsoft Word, PDF, or text (ASCII) file format and avoid the use of special characters or any form of

encryption. Comments in electronic format should be identified by the Docket Number EERE-2012-BT-STD-0027 and/or RIN 1904-AC81 and, wherever possible, carry the electronic signature of the author. No telefacsimiles (faxes) will be accepted.

Pursuant to 10 CFR 1004.11, any person submitting information that he or she believes to be confidential and exempt by law from public disclosure should submit two copies: one copy of the document including all the information believed to be confidential and one copy of the document with the information believed to be confidential deleted. DOE will make its own determination as to the confidential status of the information and treat it according to its determination.

Factors of interest to DOE when evaluating requests to treat submitted information as confidential include: (1) a description of the items; (2) whether and why such items are customarily treated as confidential within the industry; (3) whether the information is generally known by or available from other sources; (4) whether the information has previously been made available to others without obligation concerning its confidentiality; (5) an explanation of the competitive injury to the submitting person which would result from public disclosure; (6) a date upon which such information might lose its confidential nature due to the passage of time; and (7) why disclosure of the information would be contrary to the public interest.

V. Approval of the Office of the Secretary

The Secretary of Energy has approved publication of this NOPM.

Issued in Washington, DC, on May 14, 2014.



Kathleen B. Hogan
Deputy Assistant Secretary for Energy Efficiency
Energy Efficiency and Renewable Energy