

## **ENERGY STAR® Product Development Update Spring 2009**

Provided below are updates on existing and potential ENERGY STAR qualified product categories currently being researched by the Environmental Protection Agency (EPA) and the Department of Energy (DOE). For more information on the status of EPA and DOE's activities, visit the ENERGY STAR Specifications in Development Web site at [www.energystar.gov/productdevelopment](http://www.energystar.gov/productdevelopment). Click on "Revisions to Existing Specifications" or "New Product Specifications in Development" for a list of product-specific Web pages. Contacts are also provided at the end of each update for those parties interested in finding out more about a particular product.

### **Audio/Video**

On February 27, 2009, EPA distributed a set of preliminary product test procedures for audio/video products to industry stakeholders. Public comments were received and incorporated into a revised set of test procedures. These revised procedures and a related data collection form were subsequently distributed on the week of April 20, 2009 along with a formal request for stakeholders to perform testing on products they wish to include in the ENERGY STAR Version 2.0 Program Requirements for Audio/Video. Product test data is due to the EPA no later than June 19, 2009. EPA released Draft 1 Version 2.0 Program Requirements for Audio/Video on May 22, 2009 for stakeholder review and comment.

Kathleen Vokes, EPA  
[Vokes.Kathleen@epa.gov](mailto:Vokes.Kathleen@epa.gov)

### **Central Air Conditioners & Air-Source Heat Pumps: Light Commercial**

EPA is in the process of drafting Draft 2 Version 2.0 of the ENERGY STAR specification for light commercial HVAC. The Draft will include revised performance levels for light commercial HVAC equipment rated up to 240,000 Btu/h (non-inclusive). EPA plans to release this Draft specification for stakeholder review and comment in June.

Steve Ryan  
[Ryan.Steven@epa.gov](mailto:Ryan.Steven@epa.gov)

### **Computers: Desktops, Game Consoles, Notebooks, Small Scale Servers, Thin Clients, Workstations**

The Version 5.0 ENERGY STAR program requirements for computer products will go into effect on July 1, 2009. EPA is continuing to work with stakeholders to develop requirements for game consoles. These requirements are expected to be finalized and go into effect on July 1, 2009 with all other products covered by the computer specification.

Katharine Kaplan, EPA  
[Kaplan.Katharine@epa.gov](mailto:Kaplan.Katharine@epa.gov)

### **Computers: Servers**

On May 15, 2009, EPA released the Final ENERGY STAR Computer Server specification, effective immediately. The final version covers rack and pedestal servers with no more than four processor sockets and excludes Blade Servers. The first list of qualified models will be posted to the ENERGY STAR Web site on June 1, 2009. EPA has also commenced efforts to develop Tier 2 requirements, scheduled to take effect October 1, 2010.

Andrew Fanara, EPA  
[Fanara.Andrew@epa.gov](mailto:Fanara.Andrew@epa.gov)

### **Displays / Monitors**

On February 18, 2009, EPA held an online stakeholder meeting to discuss the proposed requirements for displays from 30 to 60 inches (inclusive) viewable diagonal screen size. EPA released the Final Version 5.0 ENERGY STAR Displays specification for all eligible products, i.e., displays under 30 inches and from 30 to 60 inches, on March 30, 2009. The final version of the specification sets the maximum eligible diagonal screen size at 60 inches, establishes maximum On, Sleep, and Off Mode power consumption requirements for displays from 30 to 60 inches, and notes that under Tier 1 of the specification, displays from 30 to 60 inches would have to be tested at default luminance but would not be subject to a default luminance boundary. The effective date for displays under 30 inches is October 30, 2009. The effective date for displays from 30 to 60 inches is January 30, 2010.

Christopher Kent, EPA  
[Kent.Christopher@epa.gov](mailto:Kent.Christopher@epa.gov)

### **Enterprise Storage**

On April 23, 2009, a letter was distributed to data center stakeholders announcing EPA's intention to pursue the development of an ENERGY STAR specification for Enterprise Storage. Stakeholders were provided an overview of the ENERGY STAR program and details of the next steps in the specification development process. Interested parties are encouraged to send their contact information to Stephen Pantano, ICF International, at [spantano@icfi.com](mailto:spantano@icfi.com) to be added to the email distribution list for future EPA announcements.

Andrew Fanara, EPA  
[Fanara.Andrew@epa.gov](mailto:Fanara.Andrew@epa.gov)

### **Griddles: Commercial**

EPA released a Final Commercial Griddle specification on May 8, 2009, effective immediately. Single-sided and double-sided, gas and electric, models must meet minimum cooking energy efficiency and maximum idle energy rates to qualify for ENERGY STAR. A more stringent idle energy rate requirement was added for electric griddles, effective January 1, 2011. The new specification was launched at the National Restaurant Association show held in Chicago, Illinois May 16-29.

Christopher Kent, EPA  
[Kent.Christopher@epa.gov](mailto:Kent.Christopher@epa.gov)

### **Heat/Energy Recovery Ventilators**

An ENERGY STAR specification for Heat/Energy Recovery Ventilators is currently under development by Natural Resources Canada (NRCAN) in cooperation with EPA. The current draft of the specification includes requirements for sensible heat-recovery efficiency (%) and fan efficacy (cfm/W). Questions regarding the specification may be directed to Brian Killins, NRCAN, at [Brian.Killins@NRCAN-RNCAN.gc.ca](mailto:Brian.Killins@NRCAN-RNCAN.gc.ca).

Andrew Fanara, EPA  
[Fanara.Andrew@epa.gov](mailto:Fanara.Andrew@epa.gov)

### **Ovens: Commercial**

EPA released a Final Commercial Oven specification on May 13, 2009, effective on May 16. Full size gas and electric and half size electric convection ovens must meet minimum cooking energy efficiency levels and maximum idle energy rates to qualify for ENERGY STAR. The new specification was launched at the National Restaurant Association show held in Chicago, Illinois May 16-29.

Christopher Kent, EPA  
[Kent.Christopher@epa.gov](mailto:Kent.Christopher@epa.gov)

### **Programmable Thermostats**

On May 4, 2009, EPA distributed a letter notifying stakeholders of its intent to sunset the ENERGY STAR specification for programmable thermostats effective on December 31, 2009. In mid-May, EPA distributed a second letter to stakeholders outlining key changes and dates associated with the suspension process for programmable thermostats.

Beginning December 31, 2009, the ENERGY STAR label will no longer be available for this product category. EPA will also continue to explore a potential new ENERGY STAR specification for programmable thermostats and will share any new developments by informing stakeholders and posting updates on the Product Development Web site at [www.energystar.gov/productdevelopment](http://www.energystar.gov/productdevelopment). Should these efforts translate into a new proposed set of requirements for programmable thermostats, EPA will work with stakeholders through a transparent, open, and inclusive process to finalize them.

Katharine Kaplan  
[Kaplan.Katharine@epa.gov](mailto:Kaplan.Katharine@epa.gov)

### **Refrigerators and Freezers: Commercial**

On March 6, 2009, EPA released a Final Draft Version 2.0 ENERGY STAR specification for commercial refrigerators and freezers. Based on stakeholder comments, EPA distributed the Final Version 2.0 ENERGY STAR specification for commercial refrigerators and freezers on April 1, 2009 with minor modification to the Eligibility Criteria. The Version 2.0 specification took effect on April 1, 2009 for glass door cabinets and will take effect on January 1, 2010 for all other products. Federal minimum efficiency standards that make current ENERGY STAR levels in the Version 1.0 specification mandatory for all commercial refrigerators and freezers take effect on January 1, 2010.

Christopher Kent, EPA  
[Kent.Christopher@epa.gov](mailto:Kent.Christopher@epa.gov)

### **Refrigerators and Freezers: Laboratory Grade**

On April 17, 2009, EPA released a Draft 1 supplement to the ASHRAE 72 test procedure for commercial refrigeration for review and comment. Based on stakeholder feedback, EPA will release a subsequent version for final review in early June. Once the test procedure supplement is finalized, EPA will initiate the ENERGY STAR specification development process and work with manufacturers collect information on product performance.

Christopher Kent, EPA  
[Kent.Christopher@epa.gov](mailto:Kent.Christopher@epa.gov)

### **Residential Light Fixtures**

On March 4, 2009, EPA released a Draft Version 4.3 specification for residential light fixtures (RLF) for stakeholder review and comment. Revisions were made to correlated color temperature allowances and minimum light output for fixtures using LED light engines and the lamp shipment requirement for certain portable fixtures intended for use with qualified GU24-based integrated lamps. The stakeholder comment period concluded in mid-April and EPA is in the process of reviewing comments. Qualified products in the RLF program are available on the ENERGY STAR web site at [www.energystar.gov/lighting](http://www.energystar.gov/lighting).

Alex Baker, EPA  
[Baker.Alex@epa.gov](mailto:Baker.Alex@epa.gov)

### **Solid State Lighting Luminaires**

DOE collected and posted industry comments on the first draft of the integral LED lamp criteria in February. A second draft is being released for public review and comment in mid-May. In June, DOE will

release draft criteria for a number of commercial outdoor applications that incorporate solid-state lighting. These applications include roadway and area lighting, parking garage luminaires, and “wall packs.” These applications were pulled from the Final 1.1 version of the ENERGY STAR criteria because these applications required further analysis based on comments received.

Richard Karney, DOE  
[Richard.Karney@ee.doe.gov](mailto:Richard.Karney@ee.doe.gov)

### **Televisions**

On March 13, 2009, EPA distributed a proposal from Sharp Labs of America to address TV luminance for stakeholder review and comment. On April 16, 2009, EPA distributed a Draft 1 Version 3.1 ENERGY STAR TV specification. EPA hosted a meeting in Washington, DC on Friday April 24, 2009 to present details of the proposed revisions to the Version 3.1 ENERGY STAR Television specification and to address stakeholder questions and concerns regarding the proposed changes.

To encourage further discussion and work in support of the forthcoming Draft 2 Specification, EPA agreed to host several conference calls on specific topics open to all TV stakeholders. The discussion topics and dates for each call are as follows: luminance – May 4; download acquisition mode – May 6; and data set used to determine On Mode requirements – May 7. Further conference calls were scheduled on May 15 as a follow-up to discussions that took place. Stakeholder comments on Draft 1 are due to EPA on May 13, 2009. EPA is scheduled to distribute a Draft 2 Version 3.1 specification during the first week of June.

Katharine Kaplan, EPA  
[Kaplan.Katharine@epa.gov](mailto:Kaplan.Katharine@epa.gov)

### **Ventilating Fans**

On May 4, 2009, EPA distributed the Version 2.2 ENERGY STAR Ventilating Fan specification as an amendment to the Version 2.1 specification released on January 15, 2009. The purpose of this revision, effective immediately, is to provide partners with additional guidance regarding the testing, qualification, and verification processes for multi-speed fans and range hood configurations. Multi-speed bathroom, utility room, and in-line fans that have a rotary speed dial, or similar mechanism that allows for a theoretically infinite number of speeds between minimum and maximum, must be tested and meet efficacy and sound level requirements at: (1) minimum speed; (2) maximum speed; and (3) a speed half-way between minimum and maximum. These fans must also undergo verification testing at any one speed at which the product was originally qualified while range hoods must undergo verification testing at any one configuration reported for initial ENERGY STAR qualification.

Andrew Fanara, EPA  
[Fanara.Andrew@epa.gov](mailto:Fanara.Andrew@epa.gov)

### **Windows, Doors, and Skylights**

DOE released revised program requirements for windows, doors, and skylights on April 7, 2009. The revision process that began in fall 2007 involved in-depth meetings with manufacturers, an initial draft set of criteria, an over-subscribed stakeholder meeting, issuance of revised draft criteria, and three comment periods. The culmination is a final set of ENERGY STAR criteria for Windows, Doors, and Skylights to become effective on January 4, 2010 with expected annual energy savings of 9.21 tBTU.

Richard Karney, DOE  
[Richard.Karney@ee.doe.gov](mailto:Richard.Karney@ee.doe.gov)