



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
AIR AND RADIATION

July 20, 2009

Dear ENERGY STAR® TV Partner or Other Interested Stakeholder:

The U.S. Environmental Protection Agency (EPA) welcomes your input on the following Final Draft Versions 4.0 and 5.0 ENERGY STAR TV specification. This document outlines the proposed new energy efficiency requirements that TVs would need to meet in order to earn the ENERGY STAR. It is intended that once final, this document will replace the current Version 3.0 specification. The anticipated effective date for the Version 4.0 requirements in this specification is May 1, 2010. The anticipated effective date for the Version 5.0 requirements is May 1, 2012.

On behalf of EPA, I would like to thank all stakeholders who provided comments on Draft 2. The Final Draft Versions 4.0 and 5.0 specification includes the following key elements:

- **ON Mode Requirements:** Based on stakeholder recommendations, EPA is proposing to modify the Version 4.0 ON Mode requirement for TVs with a screen area of less than 275 square inches. Under this new proposed requirement, fewer televisions in the 20-inch size bin currently meet the ON Mode requirement, from 61% of all models in the 20-inch size bin to 37%. Based on this modification to the Version 4.0 ON Mode power requirement, EPA also modified the Version 5.0 ON Mode power requirement for models less than 275 square inches so that the Version 5.0 is more stringent than the Version 4.0 requirements at this size range. The Versions 4.0 and 5.0 ON Mode requirement for products 275 square inches and larger was not modified from the Draft 2 proposal.
- **Luminance:** EPA has a significant interest in ensuring that products are tested and qualified as ENERGY STAR in the mode in which they will ultimately be viewed in the home. Based on stakeholder discussions and input, EPA is maintaining the Draft 2 proposed luminance requirement to maintain harmonization with requirements outlined in the European Union. EPA anticipates collecting and posting luminance and power levels for both retail and home modes for ENERGY STAR qualification. EPA will review this data closely and adjust this approach prior to the effective date for Version 5.0, as needed. EPA has provided greater specificity regarding testing luminance in this Final Draft. EPA will host a conference call on Wednesday, July 29, 2009 from 1:00 – 2:30pm Eastern Time to further discuss luminance testing issues with stakeholders. Details for this call are below.
- **Download Acquisition Mode (DAM):** Based on conversations EPA has had with TV manufacturers and content providers, EPA has accepted stakeholder's proposal and included a DAM requirement for TVs of 0.08 kWh/day in the Final Draft of Version 4.0. This level was based on an expected power of 20 watts while in DAM for a duration of 4 hours. For Version 5.0 requirements, EPA is proposing a DAM requirement of 0.02 kWh/day. In addition, some stakeholders have asked for unique treatment of TVs destined for hospitality settings. Based on stakeholder input, EPA is proposing differentiating hospitality televisions by presence of an RJ-45 port AND installed SmartPort software. EPA is also proposing a (TEC) approach for hospitality TVs, giving manufacturers greater flexibility in meeting the ENERGY STAR kilowatt-hour requirements. Finally, EPA has proposed a testing protocol for measuring DAM in this Final Draft. EPA would like to work with interested stakeholders in the coming weeks to ensure this test procedure to measure DAM is appropriate. As such, EPA will host a call to discuss DAM testing on Thursday, July 30, 2009 from 1:00 – 2:30pm, Eastern Time. More details on this call are below.
- **Display Power Management Signaling (DPMS):** In response to stakeholder feedback, EPA is proposing to remove the DPMS requirement for televisions under the Version 4.0 requirements. EPA intends to include a requirement that televisions with computer

capability must offer Display Power Management for VGA and DVI connectors under the Version 5.0 requirements.

- **Inclusion of CEA-2037:** Based in stakeholder feedback, EPA is proposing to replace some of the measurement language in the ENERGY STAR specifications and reference CEA-2037 to help all policymaking bodies harmonize on measurement of ON Mode. EPA is seeking stakeholder input on the proposal in the Final Draft specification.

Stakeholders are requested to **provide comments on the Final Draft specification no later than August 10, 2009. Please send comments via e-mail to Bijit Kundu, ICF International, at [bkundu@icfi.com](mailto:bkundu@icfi.com).** All of the enclosed documents as well as comments received will be posted to the ENERGY STAR Product Development Web site, unless the submitter specifically requests that their comments remain confidential.

#### **Web-Based Stakeholder Meeting to Discuss Final Draft**

On Tuesday, July 28, 2009 from 1:00 – 3:00pm, Eastern Time, EPA will host a Web-based stakeholder meeting to present details on the revisions made in the Final Draft Versions 4.0 and 5.0 ENERGY STAR TV specification, as well as address stakeholder questions and concerns regarding the proposed changes. If you wish to attend this meeting, please RSVP, if you have not already, to Bijit Kundu at [bkundu@icfi.com](mailto:bkundu@icfi.com) no later than July 24, 2009.

#### **Webinar Information**

Please click the following link\*: [Join the meeting](https://www.livemeeting.com/cc/icfconsulting/join) (or copy the following address and paste into your Web browser: <https://www.livemeeting.com/cc/icfconsulting/join>)

Meeting ID: DCSFK6

Entry Code: ENERGYSTAR

Call-in number\*\*: 1-800-747-5150

Access Code: 8621157

\*Please check your system before the meeting to make sure it is ready to use Office Live Meeting.

\*\*If calling from outside the U.S., please call +1 3032481290 with the access code noted above.

#### **Additional Conference Calls: Luminance and DAM Testing**

EPA will be hosting two subsequent conference calls to discuss luminance and DAM testing for interested stakeholders. Details for the calls are as follows (the call-in number and access code apply to both calls):

**Call-in number\*:** 1-800-747-5150 (\*If calling from outside the U.S., please call +1 303-248-1290)  
**Access Code:** 8621157

Topic	Date	Time
Luminance Testing	July 29, 2009	1:00 – 2:30pm Eastern Time
DAM Testing	July 30, 2009	1:00 – 2:30pm, Eastern Time

The exchange of ideas and information between EPA, industry, and other interested parties is critical to the success of ENERGY STAR. To track EPA's progress in revising the ENERGY STAR TV products specification and to review comments, please visit the Product Development Web site at [www.energystar.gov/productdevelopment](http://www.energystar.gov/productdevelopment) and click on "Revisions to Existing Specifications."

Thank you for taking the time to review this Final Draft specification. Please feel free to contact me directly with any questions or concerns at (202) 343-9120 or via e-mail at [kaplan.katharine@epa.gov](mailto:kaplan.katharine@epa.gov).

Best Regards,



Katharine Kaplan, U.S. EPA  
ENERGY STAR for Consumer Electronics

Enclosures: Final Draft Versions 4.0 and 5.0 ENERGY STAR TV specifications  
Data Chart Used to Determine Final Draft Version 4.0 ON Mode Requirement  
ENERGY STAR Draft 2 Comment Response Summary Document