



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

OFFICE OF  
AIR AND RADIATION

June 5, 2009

Dear ENERGY STAR® TV Partner or Other Interested Stakeholder:

The U.S. Environmental Protection Agency (EPA) welcomes your input on the following Draft 2 Versions 4.0 and 5.0 ENERGY STAR TV specification. In response to stakeholder feedback, requirements previously identified as Version 3.1 Tiers 2 and 3 will now be referred to as Versions 4.0 and 5.0. 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 proposed effective date for the Version 4.0 requirements in this specification is May 1, 2010. The proposed 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 1. The Draft 2 Versions 4.0 and 5.0 specification includes the following key elements:

- **ON Mode Requirements:** Proposed Version 4.0 and 5.0 ON Mode requirements. EPA's Version 4.0 proposed requirements remain unchanged from Draft 1. Based on current market data from more than 20 manufacturers and spanning all size categories, EPA believes the proposed requirements achieve the desired effect of recognizing leadership products when it comes to energy efficiency. EPA's assessment is based on nearly 700 models in the EPA dataset and other models being offered on the market now, including feature-rich and cost-competitive products. EPA's Version 5.0 proposed requirements also remain unchanged from Draft 1 for TVs 50" and smaller. TVs of all sizes will continue to be eligible to earn the ENERGY STAR. However, based on stakeholder input, especially large TVs, which typically have a larger environmental impact, will be recognized with an ENERGY STAR if they meet requirements consistent with those of a maximum 50" television. This approach accommodates consumer choice across a wide spectrum of sizes, including large sizes, while recognizing that there is a limit to what ENERGY STAR can credibly classify as an energy efficient TV.
- **Automatic Brightness Control:** Based on stakeholders' input from the April 24 stakeholder meeting, EPA will not be modifying the above calculation for ON Mode power consumption of products with the Automatic Brightness Control (ABC) feature in the Version 4.0 specification. EPA will continue to track the use of this feature in the market, and possibly conduct a study, to assess the appropriateness of this treatment for products available in 2012 when the Version 5.0 requirements will go into effect.
- **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. To ensure a level playing field and promote international harmonization of requirements, in this Draft 2 specification, EPA has proposed that to qualify as ENERGY STAR, the luminance of the product in the "home" mode, or in the default mode as shipped, shall not be less than 65% of the luminance of the "retail" mode, or the brightest selectable preset mode, of the product. EPA is seeking feedback on a consensus test pattern and test method for luminance. EPA expects to work with interested stakeholders to finalize this test pattern and test method in the coming months.
- **Download Acquisition Mode:** EPA agrees with stakeholder comments that a DAM requirement based on total power consumption will allow manufacturers more flexibility to innovate their products. In order to highlight the truly efficient models, in

this Draft 2 specification, EPA proposes a DAM requirement for TVs of 0.02 kilowatt-hours/day. This level was based on an expected power of 5 watts while in DAM for a duration of 4 hours. In addition, some stakeholders have asked for unique treatment of TVs destined for hospitality settings. EPA is considering paths forward for covering these products as requested. As such, EPA is seeking a means of clearly differentiating a hospitality TV from a consumer TV (i.e., a set of characteristics that are unique to hospitality TVs). EPA is also seeking data regarding the duty cycle for hospitality TVs and clarification on whether this duty cycle differs for healthcare bound TVs. Finally, if EPA is able to separate these products from consumer products with certainty, the Agency may propose a Typical Electricity Consumption (TEC) approach for hospitality TVs, giving manufacturers greater flexibility in meeting the ENERGY STAR kilowatt-hour requirements. To further discussion of possible approaches for these products, EPA will host a conference call with interested stakeholders on Wednesday, June 24, 2009 at 1:00pm, Eastern Time. More details on this call will follow.

Stakeholders are requested to **provide comments on the Draft 2 specification no later than June 30, 2009. Please send comments via e-mail to Bijit Kundu, ICF International, at [bkundu@icfi.com](mailto:bkundu@icfi.com)**. All comments received will be posted to the ENERGY STAR Product Development Web site, unless the submitter specifically requests that their comments remain confidential.

#### **TV Stakeholder Meeting to Discuss Draft 2**

On Monday, June 22, 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 Draft 2 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 to Bijit Kundu at [bkundu@icfi.com](mailto:bkundu@icfi.com) no later than June 17, 2009.

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 Draft 2 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