

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



OFFICE OF  
AIR AND RADIATION

June 3, 2011

Dear ENERGY STAR® Displays Partner or Other Interested Party:

The U.S. Environmental Protection Agency (EPA) welcomes your input on the following Draft 1 Version 6.0 ENERGY STAR Displays product specification, developed in consultation with the European Commission. It is intended that once final, this document will replace the current Version 5.1 Displays product specification. EPA aims to finalize Version 6.0 in November 2011, and this specification would take effect in August 2012.

On behalf of EPA, I would like to thank all stakeholders who have provided feedback in response to the ENERGY STAR Displays Specification Revision Discussion Document and Displays Webinar held earlier this year. This feedback helped create the foundation for the Draft 1 specification and revised Test Method.

The Draft 1 Version 6.0 specification and test method include the following key elements:

- **Harmonization:** Observing trends in how Displays and Televisions are being marketed and how consumers are using these products, and with the intention of simplifying both testing for manufacturers and product comparison for consumers, EPA has taken steps with this draft to harmonize Display and Television testing for the purposes of ENERGY STAR qualification. More specifically, EPA is suggesting the following changes to the Display specification:
  - **Test Method:** EPA is proposing the adoption of the International Electrical Commission (IEC) standard IEC 62087, Ed. 2.0: Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment for testing displays of all diagonal sizes. EPA will consider both stakeholder feedback and test data related to this proposed adoption prior to proposing performance levels in a future draft specification.
  - **Luminance:** EPA proposes that partners test and ship products at a luminance value greater than or equal to 65% of the maximum luminance to qualify as ENERGY STAR, mirroring the ENERGY STAR Televisions specification. EPA proposes that partners report both the maximum luminance value and the “as-shipped” luminance value, which is at least 65% of the maximum luminance.
  - **Automatic Brightness Control:** EPA and DOE are interested in improving the measurement associated with ABC enabled by default. Both EPA and DOE believe that

the test conditions for room illuminance should be representative of consumer use. EPA is proposing testing conditions for ABC enabled by default that have been recommended by DOE for televisions to harmonize with the Version 6.0 draft specification for Televisions. EPA intends to adopt the DOE test procedure once it is finalized.

- **Scope:** EPA clarifies the scope of this specification, proposing the inclusion of Displays with KVM functionality and the exclusion of products that are explicitly marketed and sold as dual-function televisions/computer monitors as well as products used in diagnostic medical applications.
- **Data Assembly to Determine On Mode Power Requirements for Displays less than 30” in diagonal size:** EPA plans to adopt the IEC 62087 standard for testing displays under 30” in diagonal size and seeks data to be used to determine performance levels in Draft 2 of this specification. The IEC 62087 test method is currently being used for determining ENERGY STAR eligibility for Displays 30”- 60” in diagonal size and for Televisions of all sizes. EPA notes later in this letter a two phase comment period where stakeholders are first asked to flag requests for guidance or clarification regarding use of IEC 62087 and subsequently contribute to EPA’s data assembly effort.
- **Data Assembly to determine On Mode Power Requirements for Displays ranging from 30” to 60” in diagonal size:** EPA currently has limited data from its qualified product list for displays in this size category and therefore seeks performance data for non-qualified products. EPA asks stakeholders to subsequently contribute to EPA’s data assembly effort as described on page three of this letter.
- **Resolution:** In preparation for this specification revision, EPA analyzed the ENERGY STAR qualified displays to determine the extent to which resolution has an impact in determining On Mode power consumption. EPA is interested in getting additional new data to further understand under what circumstances resolution impacts power consumption in order to determine if it should propose removing resolution from the equation that determines On Mode power consumption. EPA invites stakeholders to provide any feedback or additional data that demonstrates how and why resolution impacts power consumption for display products and on which products it demonstrates an impact.
- **Preventing Unintended Consequences:** In Version 5.1, EPA has expressed an interest in working with LCD industry stakeholders through the ENERGY STAR program to reduce emissions of high global warming potential gases associated with LCD production. For Version 6.0, EPA proposes a new Partner Commitment for Display manufacturers, asking them to source LCD components from suppliers who have demonstrated that they are reducing fluorinated GHG emissions in LCD production. In the interest of offering the features consumers value, EPA also expects to require ENERGY STAR qualified Displays to meet toxicity requirements and be recyclable. EPA commits to referencing existing standards.

**EPA is inviting comments on this Draft 1.** Due to the proposed adoption of the IEC 62087 standard for testing displays less than 30” in diagonal size, EPA is dividing the comment period into two phases.

- **Phase 1: Request clarification or guidance on applying IEC 62087 to test all display products (through June 14, 2011):** EPA will redistribute an updated test method incorporating any clarifications with an accompanying data assembly form soon after the June 14 deadline.
- **Phase 2: Submit all test data and comments on the proposed draft specification (through July 18, 2011):** EPA will consider all test data and comments on the proposed edits in Draft 1 specification in its analysis for Draft 2. EPA will also propose performance levels for all product types/sizes in the Draft 2 specification.

Earlier this spring, EPA indicated that it would hold an in-person meeting the week of June 6, 2011, to discuss feedback to Draft 1. In light of EPA's plan to assemble data prior to proposing performance levels, EPA will instead host a webinar for stakeholders on **Wednesday June 22 from 1-4pm EDT and host an in-person meeting in early/mid-September 2011 in Washington, D.C. to discuss Draft 2**, which EPA hopes to release later this summer.

Please send Phase 1 and Phase 2 comments/data via e-mail to Nina Ruiz, ICF International, at [nruiz@icfi.com](mailto:nruiz@icfi.com). Thank you in advance for sharing your feedback on this Draft specification and revised Test Method. I look forward to continuing to work with you throughout this revision of the ENERGY STAR Displays product specification. Please contact Verena Radulovic, EPA, at [Radulovic.verena@epa.gov](mailto:Radulovic.verena@epa.gov) or (202) 343-9845 or Christopher Kent, EPA at [kent.christopher@epa.gov](mailto:kent.christopher@epa.gov) or (202) 343-9046 with questions or concerns.

Thank you for your continued support of ENERGY STAR.

Sincerely,



Verena Radulovic, U.S. EPA  
ENERGY STAR for Consumer Electronics

Enclosures:

Draft Partner Commitments

Draft 1 Version 6.0 ENERGY STAR Displays Product Specification

Draft Test Method for ENERGY STAR Displays Products

Information on "As Shipped" and "As Tested" Display Luminance for ENERGY STAR Display Products

Summary of Comments from Stakeholders Following the February 24, 2011 Displays Webinar