

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



OFFICE OF
AIR AND RADIATION

December 15, 2008

Dear ENERGY STAR® Displays Partner or Other Interested Stakeholder:

With this letter, the U.S. Environmental Protection Agency (EPA) and the European Commission (EC) are pleased to distribute a draft final of the ENERGY STAR Displays specification Version 5.0. For reasons outlined below, EPA has decided not to finalize requirements for professional displays at this time so as to allow for further refinements.

On behalf of EPA, I would like to thank all stakeholders who provided feedback in response to the Draft 1 and Draft 2 Version 5.0 ENERGY STAR Displays specification, distributed on July 24 and October 22, 2008, respectively, and for your active participation at the September 25 stakeholder meeting and December 2 webinar. All of the feedback received aided the revision of this draft specification.

The Draft Final Displays specification also reflects EPA's ongoing commitment to developing a unified program approach to a variety of displays by working towards the harmonization of performance metrics, ENERGY STAR requirements, ENERGY STAR test procedures, and definitions. In keeping with this effort, EPA's Draft Final specification includes a performance metric that accounts for both screen area and resolution in determining the On Mode power consumption requirement. EPA is pursuing this strategic approach to address the following:

- Harmonization of performance metrics between displays and televisions
- Incorporation of multiple product types that have different screen area/on power and resolution/on power correlations
- Performance metric feasibility to address 2.3 megapixel products in a technology neutral way
- Flexibility in addressing additional product types and technologies not currently well represented in our dataset

The ENERGY STAR Draft Final Version 5.0 Displays specification for standard screen displays includes fairly modest changes from Draft 2.

- EPA has replaced language in Draft 2 of the specification revision that mandated laboratory accreditation with a new section, Facility Quality Control. During the December 2 online stakeholder meeting, EPA and a number of stakeholders discussed ways to address a data quality requirement that would avoid conflicts of interest without necessarily requiring third-party testing, leading to the language presented in this new section.
- EPA has significantly reorganized the specification's Section 4. Test Method, in order to improve the ease of use of the document. However, the content remains the same as in Draft 2 with the exception of the fact that EPA has moved the Product Test Method subsection of Section 4, which described the procedures to follow to measure the On, Sleep, and Off Mode power consumption of the unit under test, to separate annexes to the specification.
- The Commitment Section has been modified to note that listing products via the Online Product Submittal (OPS) tool will satisfy the requirement to provide to EPA, on at least an annual basis, an updated list of ENERGY STAR qualified display models.

- EPA has slightly modified the definitions of Electronic Display and Sleep and Off Mode as well as added definitions for the terms, “Luminance,” and, “Automatic Brightness Control.”
- To improve the ease of use of the specification, EPA has expanded the Qualifying Products Section to include additional guidance related to the preliminary criteria a display must meet to qualify for ENERGY STAR.
- The Approved Meter Section of the specification has been modified, and an Accuracy Section added, to match the equivalent sections in Version 3.0 of the ENERGY STAR TV specification, pursuant to EPA’s efforts to harmonize the Displays and TV specifications.
- EPA has reorganized its explanation of the Number of Units Required for Testing to harmonize it with other ENERGY STAR specifications. Testing of additional units is not required if the steady-state power consumption of the first test unit is less than or equal to 85% of the ENERGY STAR qualification limit.

ENERGY STAR remains committed to the October 2009 effective date for standard displays. As of January 30, 2009, all aspects of the display specification will be final EXCEPT for the On Mode power consumption requirement for professional displays.

With respect to displays greater than or equal to 30 inches (professional displays), EPA has concluded that there is currently insufficient data upon which to base performance requirements, consistent with ENERGY STAR program principles. Further, EPA believes that the Monitor 4.1 VESA test procedure may not adequately represent professional displays’ operations and use. Accordingly, EPA is proposing that professional displays with a viewable diagonal screen size greater than or equal to 30 inches adopt the IEC 62087 test procedure, and is providing a separate finalization timeline. In addition to being more suitable for large professional displays, the use of IEC 62087 is consistent with EPA’s commitment to harmonizing the TV and Displays specifications in light of increasing product convergence.

As a result of this proposed change, EPA is seeking test data for professional displays using IEC 62087. With this memorandum, EPA is distributing a new data collection tool for professional displays incorporating the IEC test procedure. Between December 15, 2008 and March 30, 2009, working with professional display manufacturers, EPA will collect and analyze performance data, and establish a new On Mode power consumption requirement, assuming the inclusion of professional displays in the program remains consistent with program principles. EPA anticipates an effective date of October 30, 2009 for professional displays will be feasible.

In order to facilitate your review of this Draft Final specification, EPA will post the following documents to the Displays section of the ENERGY STAR Product Development Web site:

- Draft Final Version 5.0 Displays specification and associated Test Procedure annexes;
- Summary of comments and responses to Draft 2;
- Estimated energy savings and power consumption charts;
- Updated data set of display models used in establishing power consumption levels for the Draft Final
- Professional Displays Data Gathering Tool using IEC 62087.

An updated proposed timeline for the Displays specification revision process is provided below:

January 5, 2009	–	Comments due on Draft Final Version 5.0 Displays specification
January 30, 2009	–	Final Version 5.0 Displays specification (for products under 30” viewable diagonal screen size) distributed to industry
January 30, 2009	–	Test data on professional displays due
February 11, 2009	–	Revised On Mode power consumption requirements for professional displays distributed to industry
February 18, 2009	–	Webinar to discuss revised On Mode power consumption requirements for professional displays
March 30, 2009	–	Final Version 5.0 Displays specification for all products distributed to industry
October 30, 2009	–	Effective date of Version 5.0 Displays specification

Stakeholders are requested to provide **written comments on the Draft Final specification no later than Monday, January 5, 2009. Please send comments via e-mail to both Christopher Kent at kent.christopher@epa.gov, and Elliott Rector, ICF International, at erector@icfi.com.** All comments received will be posted to the ENERGY STAR Product Development Web site unless specifically requested otherwise

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 Displays specification and to review comments, please visit the Product Development Web site at www.energystar.gov/productdevelopment and click on "Revisions to Existing Specifications."

Thank you for taking the time to review this Draft specification. Please feel free to contact me directly with any questions or concerns at (202) 343-9046 or via e-mail at kent.christopher@epa.gov.

Best Regards,



Christopher Kent, EPA Product Manager
ENERGY STAR Product Specification Development

Enclosure:

- Draft Final Version 5.0 ENERGY STAR Displays Specification
- Annex 1: Test Procedures for Displays with screen area less than 30 inches diagonal
- Annex 2: Test Procedures for Displays with screen area greater than or equal to 30 inches
- Data collection tool for professional displays