

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



OFFICE OF
AIR AND RADIATION

July 6, 2012

Dear ENERGY STAR[®] Lighting Stakeholders:

The U.S. Environmental Protection Agency (EPA) is pleased to distribute Draft 2 of the ENERGY STAR Lamps V1.0 specification for partner and stakeholder review and comment. This specification is intended to replace the existing Compact Fluorescent Lamps and Integral LED Lamps specifications (“the existing specifications”).

On October 21, 2012, EPA released Draft 1 of Lamps V1.0. The Agency would like to thank partners and stakeholders for their thorough review of Draft 1, and for the thoughtful comments submitted. Comments received have been posted to the ENERGY STAR Lamps Specification Development website at www.energystar.gov/lamps, along with a document summarizing those comments, Draft 1 itself, and other supporting materials.

Following the release of Draft 1, EPA held a round table discussion and webinar providing further details on the Agency’s rationale for the content of the first draft, followed by a question and answer session. Slides from that meeting are available on the Lamps website at the above website address. EPA has also met with industry representatives in person and over the phone on several occasions to discuss key topics in greater detail. The draft distributed today reflects changes resulting from EPA’s review and consideration of all submitted comments and industry discussions. Stakeholders are encouraged to carefully review comment boxes incorporated throughout the draft which provide further details about proposed changes and additions, including:

- Minimum life requirements for LED lamps have been reverted to 15,000 and 25,000 hours depending on lamp type, to match the existing specification. The proposed increase to 10,000 hours for compact fluorescent lamps has been retained.
- The Elevated Temperature Life Test is now proposed only for all directional and semidirectional lamps, and omnidirectional lamps greater than or equal to 10 watts. Decorative lamps, typically installed in applications with adequate air circulation and lower ambient temperatures, are exempt from this proposed requirement.
- A commercial grade performance tier has been added to the specification. Elevated performance requirements have been proposed for lumen maintenance and reliability, power factor and warranty. In addition, commercial grade lamps are proposed to meet more stringent elevated temperature testing requirements, as applicable.
- MR-16 lamps, both low- and line-voltage versions, have been introduced to the specification scope. Consistent with data from the U.S. Department of Energy (DOE) showing that the majority of low-voltage MR-16 lamps in the U.S. are installed in

commercial applications, the draft includes a proposal that these lamps meet the proposed new commercial tier requirements to earn the ENERGY STAR.

- Lamp labeling and packaging requirements have been modified to eliminate any duplication of requirements of the Federal Trade Commission and safety listing organizations.
- Allowable product variations have been added to the specification to reduce testing burden and increase the number of certified models.
- Allowable correlated color temperatures now include 6500 Kelvin.
- Color consistency requirements have been reverted to 7-step MacAdam ellipses / ANSI quadrangles, matching the existing specifications, along with increased passing test requirements.
- The Rapid Cycle Stress Test requirements proposed in Draft 1 have been maintained, but now include a maximum of 15,000 cycles. This adjustment is intended to balance the benefit to consumers with the associated testing burden, and in recognition of the fact that very long life lamps, particularly those employed in commercial applications, will be switched less frequently than shorter life lamps employed in residential applications.
- As first mentioned in Draft 1, light output requirements for reflector lamps have been proposed, in alignment with rules issued by DOE, to ensure that performance matches consumer expectations set by the incandescent lamps being replaced.
- Also mentioned in Draft 1, new luminous intensity distribution requirements for directional lamps have been proposed to ensure beam performance and quality consistent with the incandescent lamps to be replaced.
- Power factor requirements have been aligned with those appearing in the ENERGY STAR Luminaires specification.
- Requirements have been proposed for “non-standard” lamps which fail to meet ANSI standard dimensional requirements and/or performance expected from those standardized lamp shapes. The requirements are proposed to ensure consumer understanding of performance shortcomings and/or advantages of such designs.

To provide further details about new proposals and changes made in Draft 2, EPA will hold a webinar on Wednesday, August 8, 2012. Advanced registration is required by sending an email to lamps@energystar.gov providing attendee name(s), company name, phone number(s) and email address(es). For proper routing please include “Lamps Draft 2 Webinar” in the subject line of the email. For those unable to attend, the presentation will be recorded and posted to www.energystar.gov/lamps for subsequent review.

Thoughtful and thorough comments entered by ENERGY STAR partners and stakeholders are vital to the success of the Program. **Stakeholders are encouraged to send comments on Draft 2 to lamps@energystar.gov no later than Friday, August 24, 2012. Please note that comments received will be posted to www.energystar.gov/lamps unless marked “Do Not Post.”**

Going forward, Taylor Jantz-Sell will lead this specification development process. Please contact Taylor with questions, comments or concerns at (202) 343-9042 or jantz-sell.taylor@epa.gov.

As always, thank you for your support of ENERGY STAR.

Sincerely,

A handwritten signature in black ink, appearing to read 'Alex Baker', with a long horizontal flourish extending to the right.

Alex Baker
ENERGY STAR Lighting Program Manager
U.S. Environmental Protection Agency