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

OFFICE OF AIR AND RADIATION

October 24, 2017

Dear ENERGY STAR® Televisions Partner or Other Interested Stakeholder:

Since releasing the Final Draft Version 8.0 ENERGY STAR Televisions Specification, the U.S. Environmental Protection Agency (EPA) has had significant additional engagement with stakeholders around our proposal for addressing Automatic Brightness Control (ABC), with the goal being to both ensure consumer savings and preserve manufacturer freedom to innovate in their designs. As a result, the Agency is sharing an updated Final Draft Version 8.0 specification that reflects refinements consistent with stakeholder feedback. The effective date of this ENERGY STAR TV specification will be July 1, 2018.

Following the release of the Final Draft in July, stakeholders raised two concerns regarding EPA's luminance requirement for TVs that qualify with ABC enabled by default as well as a question regarding the inclusion of projectors in scope. In response, EPA has updated proposed requirements as follows. This Revised Final Draft Version 8.0 specification is consistent with the Final Draft distributed on July 18, 2017 except for these changes:

- **Clarification to Excluded Products:** Based on inquiries from stakeholders, EPA has specifically listed projector products as an excluded product type.

- **Average Screen Luminance**: Stakeholders noted that requiring the average screen luminance for room illuminances at 3, 12, 35, and 100 lux to be 50 percent of the luminance in the Brightest Selectable Preset Picture Setting would result in screen luminances that are too bright for consumer preferences for TVs with high maximum screen luminances. To avoid creating an unintended scenario where TVs ship too bright, EPA is adding a clause to section 3.6.3 that says: "For products that certify to the On Mode requirements with ABC enabled by default and have a luminance in the Brightest Selectable Preset Picture Setting greater than or equal to 300 cd/m^2, the average luminance at the illuminance conditions of 3, 12, 35, and 100 lux with ABC enabled shall be greater than or equal to 150 cd/m^2."

- **Luminance at 3 Lux:** Three manufacturers noted that EPA's screen luminance requirement of 125 cd/m^2 at 3 lux was still too bright, despite the ISF findings on consumer preferences for screen brightness of 150 cd/m2 in dark room viewing conditions. EPA has subsequently become aware of the SMPTE ST 2080 Standard for content editing on HDTVs, which call for a 100 cd/m^2 screen luminance. In the absence of industry-wide consensus on optimal brightness for dark room viewing, and given this additional point of reference, EPA is lowering the requirement for luminance at 3 lux to greater than or equal to 100 cd/m^2.

Any final comments on the Version 8.0 televisions specification may be submitted no later than **Tuesday, November 7, 2017.** Please send comments via e-mail to televisions@energystar.gov. All comments received will be posted to the ENERGY STAR Product Development website, unless the submitter specifically requests 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 TV products specification and to review comments, please visit the Product Development Web site at www.energystar.gov/RevisedSpecs and click on "Version 8.0 is in development" under "Under Revision" under "Televisions."

Thank you for taking the time to review these materials. Please contact me at Radulovic.Verena@epa.gov or (202) 343-9845 with any questions or concerns. For any questions related to the test method for ENERGY STAR products, please contact Jeremy Dommu at Jeremy.Dommu@ee.doe.gov or (202) 586-9870.

Best Regards,

Verena Radulovic, Product Manager
ENERGY STAR for Consumer Electronics

Enclosures:
Revised Final Draft Version 8.0 ENERGY STAR Televisions Products Specification
Final Draft Version 8.0 Comment-Response Document