



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

OFFICE OF  
AIR AND RADIATION

December 2, 2011

Dear ENERGY STAR<sup>®</sup> Vending Machine Manufacturer or Other Interested Party,

The U.S. Environmental Protection Agency (EPA) welcomes your input on the attached Draft 1 Version 3.0 ENERGY STAR Refrigerated Beverage Vending Machine specification. Stakeholders are encouraged to submit comments on this proposal to EPA no later than **January 6, 2012**.

EPA plans to host an ENERGY STAR stakeholder webinar in mid-January 2012 to discuss the Draft 1 specification and feedback received during the comment period. Interested stakeholders are encouraged to inform EPA of any industry events that may conflict with the scheduling of this discussion. More details regarding the webinar will be distributed over the next few weeks.

**Background**

Earlier this year, EPA launched efforts to review the Version 2.1 specification in response to minimum standards established by the U.S. Department of Energy (DOE) in 2009 and effective August 31, 2012. Stakeholders were asked to provide feedback on the continued relevance of ENERGY STAR in the marketplace and opportunities to capture additional energy savings above the maximum energy consumption levels set by DOE.

Over the last several months, EPA has reviewed stakeholder comments, collected additional data, and analyzed machine energy performance to determine whether to revise or sunset the Version 2.1 specification. Preliminary feedback and analysis suggests that there is an opportunity to further differentiate highly efficient machines above minimum standard levels and therefore, EPA is moving forward with the development of a Version 3.0 specification. Once final, the Version 3.0 specification will replace the existing Version 2.1 requirements.

**Overview of Draft 1 Proposal**

EPA's goal is to finalize and release a final Version 3.0 specification in the first quarter of 2012 and align the Version 3.0 effective date with the August 31, 2012 minimum standards compliance date. Given the pending standard, EPA's focus is primarily on making the changes to the qualification requirements needed to harmonize with the definitions, metrics, and test conditions established by the DOE Final Rule (FR 74 44914, August 31, 2009, Subpart Q of 10 CFR Part 431), and ensuring continued relevance in the marketplace. However, stakeholders are encouraged to identify other areas that need additional clarification and provide longer term recommendations to EPA for consideration under subsequent revisions.

A summary of changes proposed in the Draft 1 is provided below:

- **Definitions:** EPA has adopted relevant definitions from the DOE standard, including the classification of machine types (i.e., A and B), for purposes of ENERGY STAR scope and qualification.
- **Scope:** EPA intends to only cover refrigerated beverage vending machines under the Version 3.0 specification, both new and remanufactured. EPA is not considering expanding the specification to other machine types at this time (e.g., snack machines, combination machines) but may decide to

address other categories at a later date based on continued industry interest and availability of test procedures and energy performance data.

- **Qualification Requirements:** New energy performance levels are proposed for Machine Type B using an equation for Maximum Daily Energy Consumption (MDEC) based on refrigerated cabinet volume. This is a change from the current Version 2.1 approach, which uses vendible can capacity to determine maximum levels. New and remanufactured machines will continue to be evaluated using the same energy performance level. A placeholder is included for Type A machines until EPA can review additional data and stakeholder feedback regarding the potential savings opportunity and product availability.
- **Test Procedure:** The Draft 1 references the DOE standard for purposes of testing and qualifying machines for ENERGY STAR. The DOE standard cites the energy consumption test method found in ASHRAE 32.1-2004, which is currently referenced in the Version 2.1 specification. However, outdoor machines will now be subject to the same testing conditions as indoor machines (i.e., 75 °F/45 RH).

Proposed changes are discussed in greater detail in note boxes found throughout the attached Draft 1 document.

#### **Submittal of Written Comments**

Stakeholders are encouraged to submit written comments on the Draft 1 Version 3.0 specification to [vendingmachines@energystar.gov](mailto:vendingmachines@energystar.gov) by **January 6, 2012**. To track EPA's progress in revising the ENERGY STAR Refrigerated Beverage Vending Machine specification, visit the Product Development website at [www.energystar.gov/revisedspecs](http://www.energystar.gov/revisedspecs). All specification development materials, including data plots to support the Draft 1 proposal, will be posted to the Vending Machine webpage.

Thank you for taking the time to review this draft specification. Stakeholders with questions or concerns can contact me directly at (202) 343-9046 and via e-mail at [kent.christopher@epa.gov](mailto:kent.christopher@epa.gov) or Rebecca Duff, ICF International, at (434) 202-7875 and [rduff@icfi.com](mailto:rduff@icfi.com).

Sincerely,



Christopher Kent, U.S. EPA  
ENERGY STAR Specification Development