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



OFFICE OF AIR AND
RADIATION

August 11, 2021

Dear ENERGY STAR® Commercial Refrigerators Partners and Other Interested Stakeholders:

With this letter, the U.S. Environmental Protection Agency (EPA) is releasing the [ENERGY STAR Version 5.0 Commercial Refrigerators and Freezers Draft 1 Specification](#). Stakeholders are encouraged to submit comments to EPA no later than **September 22, 2021**. EPA acknowledges the stakeholders who reviewed the discussion guide, participated in the associated webinars, and contributed verbal and written comments in preparation for this draft 1 product specification. Responses to your comments are included in the [discussion guide comment matrix](#) and in relevant note boxes throughout this draft specification.

Based on the [2019 ENERGY STAR Unit Shipment and Market Penetration Summary Report](#), ENERGY STAR certified commercial refrigerators and freezers currently represent approximately 46% of the market. This high level of overall ENERGY STAR market share presents an opportunity to revise the specification to ensure it continues to recognize top-performing products in existing categories and continues to deliver meaningful energy savings over conventional models. The current ENERGY STAR Commercial Refrigerator and Freezer Version 4.0 Specification took effect on March 27, 2017. The Agency reviewed the refrigerator and freezer categories and determined that vertical closed solid self-contained medium temperature (VCS.SC.M) and vertical closed solid self-contained low temperature (VCS.SC.L) categories had higher market penetration and presented the most significant savings opportunity relative to the remaining products in scope. Therefore, EPA proposes amended levels to those two commercial refrigerators and freezers categories in this Draft 1 specification. EPA believes the criteria proposed in this Draft 1 specification will offer significant energy savings relative to standard products in the marketplace.

The primary objectives of this revision are to expand the scope to include self-contained low and medium temperature chef bases, self-contained medium temperature service over counter products, and revise the maximum daily energy consumption for two current categories, VCS.SC.M and VCS.SC.L. These and other changes are summarized below and explained in the note boxes throughout the Draft 1 specification.

- **Scope:** EPA proposes to expand the scope of this specification to include the following products: chef base self-contained medium temperature (CB.SC.M), chef base self-

contained low temperature (CB.SC.L), and service over counter self-contained medium temperature (SOC.SC.M).

- **Criteria Levels:** To continue recognizing the most efficient refrigerators and freezers in the market, EPA proposes revisions to the VCS.SC.M and VCS.SC.L categories. Revisions to these categories offer an opportunity for further energy savings.
- **Test Methods:** Based on stakeholder feedback, chef bases and service over counter products can be tested using 10 CFR Part 431 Subpart C Appendix B, and data used in analyses were obtained using that standard. Standard references for total volume and total display area are under 10 CFR 431.63.
- **Reporting Requirements:** In numerous product categories, the ENERGY STAR program highlights refrigerants in the consumer-facing Product Finder. More than 1,000 certified commercial refrigerators currently report refrigerant information. The ENERGY STAR Version 5.0 Commercial Refrigerator and Freezer Draft 1 Specification formalizes this practice by including a refrigerant type reporting requirement.

Further, EPA recognizes the buffet and preparation tables as a potential category to include in scope at a later time and provides a [data assembly template](#) with the Draft 1 Version 5.0 product specification. As soon as EPA has a viable dataset for these products, EPA could propose ENERGY STAR levels. Interested parties are encouraged to share data to support this data assembly effort by **September 22, 2021**.

Comment Submittal

EPA welcomes stakeholder input on the attached ENERGY STAR Version 5.0 Commercial Refrigerators and Freezers Draft 1 Specification. Stakeholders are encouraged to submit any comments to cfs@energystar.gov by **September 22, 2021**. EPA will also accept additional data for chef bases and service over counter products submitted by this same deadline.

All comments will be posted to the [ENERGY STAR Product Development website](#) unless the submitter requests otherwise.

Stakeholder Webinar

EPA will host a webinar on **September 1, 2021, from 4:00-5:30 EDT** to address stakeholder comments and questions. Stakeholders interested in participating in this discussion should [register here](#) by **August 31, 2021**.

Ask the Experts

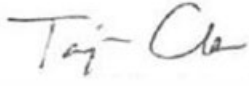
In conjunction with the publication of this ENERGY STAR Version 5.0 Commercial Refrigerators and Freezers Draft 1 Specification, the EPA is also releasing the second CFS Ask the Experts blog post, entitled [How to Reduce Refrigeration Energy Costs in Commercial Kitchens](#). The article provides an overview of maintenance tips, energy savings, and common component rebates. Stakeholders are encouraged to share the article broadly to promote your partnership with

ENERGY STAR and educate your customers on the benefits of energy efficiency.

Please contact me at Crk.Tanja@epa.gov or 202-566-1037 and Jasmin Melara, ICF, at Jasmin.Melara@icf.com or 202-862-2950 for questions or concerns.

Thank you for your continued support of the ENERGY STAR program.

Sincerely,



Tanja Crk, Product Manager
ENERGY STAR Commercial Food Service

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