

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



OFFICE OF AIR AND RADIATION

August 2, 2016

Dear ENERGY STAR® Commercial Refrigerator and Freezer Manufacturer or Other Interested Party:

With this letter, the U.S. Environmental Protection Agency (EPA) is pleased to provide the Final Draft Version 4.0 ENERGY STAR Commercial Refrigerators and Freezers specification. EPA appreciates the time and effort stakeholders contributed to this specification development process. EPA anticipates that this specification will take effect on March 27, 2017, to align with the U.S. Department of Energy's (DOE) energy conservation standards for commercial refrigeration equipment (CRE).

Final Draft Highlights

This Final Draft reflects input received from stakeholders in response to the following: the Draft 2 specification, an in-person stakeholder meeting during the National Restaurant Association (NRA) Show, and individual discussions with multiple stakeholders. The Final Draft maintains the proposed Draft 2 Version 4.0 performance criteria. Stakeholder comments and individual follow-up discussions informed EPA that the proposed levels are achievable through the implementation of one or more of the technology options discussed throughout this specification development process including the adoption of climate-friendly refrigerants and other design attributes that achieve improved energy efficiency.

Comment Response on Draft 2

While stakeholders were generally supportive of the Draft 2, one stakeholder requested additional information on the use of climate-friendly refrigerants, the potential impact they could have on energy performance, and product availability. The impact of climate-friendly refrigerants on energy consumption varies depending on many factors (including volume, equipment type, and component design features). According to preliminary data, efficiency gains made possible through the adoption of some climate-friendly refrigerants can range from 5% - 30% (depending on volume, application and other key factors.) Based on outreach to multiple stakeholders, EPA understands that many partners plan to introduce models that make use of climate-friendly refrigerants, providing consumers with both energy-efficient and low-GWP equipment options of various sub-types and sizes.

Another stakeholder commented that EPA should base the Version 4.0 performance levels solely on the energy performance of currently listed Version 3.0 ENERGY STAR models. When establishing ENERGY STAR levels, EPA strives to make use of the best available market information such that the Agency sets a level reflective of top performers in the market. Therefore, the Agency continues to include all available data within scope in determining the levels included in this Final Draft. In addition, one stakeholder requested confirmation that currently certified VCS.SC.L (0-15 ft³) and VCT.SC.L products will meet Version 4.0 levels. EPA has confirmed that available models, not currently certified to the Version 3.0 specification, meet the proposed performance requirements. Based on recent feedback from many stakeholders, EPA

understands additional models meeting the Version 4.0 requirements will be available by the effective date of this specification.

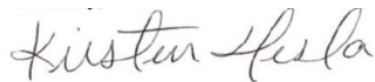
Several stakeholders requested that EPA consider maintaining the Version 3.0 specification, in the event that the effective date of the DOE minimum efficiency standards becomes delayed. Based on currently available information, the Agency intends to make this specification effective on March 27, 2017.

Submitting Comments

Any comments on the Final Draft Version 4.0 should be submitted via email to commercialrefrigeration@energystar.gov by **August 16, 2016**. All comments received will be posted to the ENERGY STAR Commercial Refrigerators and Freezers specification development webpage, which can be accessed through www.energystar.gov/revisedspecs (click on the Commercial Refrigerators & Freezers "Version 4.0 is in development" link), unless the submitter requests otherwise.

Please feel free to contact me at (202) 564-2984 and Hesla.Kirsten@epa.gov or Adam Spitz, ICF International, at (916) 231-7685 and Adam.Spitz@icfi.com with any questions regarding this specification or the ENERGY STAR partnership. For test procedure questions, please contact Ashley Armstrong, DOE, at (202) 586-6590 and Ashley.Armstrong@ee.doe.gov.

Sincerely,

A handwritten signature in cursive script that reads "Kirsten Hesla".

Kirsten Hesla, Product Manager
ENERGY STAR Commercial Food Service