

Proposed Amendment: Amended Lighting, Appliance and Miscellaneous Energy Usage Profiles

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Bruce Harley	Technical	8 of 21 (original) 1 of 2 (posted changes for review)	Table 303.4.1.7.2.5(1) and (3)	I agree with the changes that have been proposed to allow AV to be estimated from nominal volume. However, there is a discrepancy in the refrigeration types supported in each table. Table 303.4.1.7.2.5(1) has only three basic types (with TDI being an option that does not affect the AV calculation): Top Freezer, Side-by-side, and Bottom Freezer. Table 303.4.1.7.2.5(3) has three additional types: Single door R/F, Single-door R only, and standalone Freezer. In addition it has a category for "unknown type".	The two tables should be harmonized, either by eliminating the extra categories from Table ... (3) or adding missing categories to Table ... (1). I would suggest adding the following rows to Table ... (1): Single-door Refrigerator or R/F: $(13.5 * AV + 299) * VR$ Upright Freezer Manual defrost: $(10.3 * AV + 264) * VR$ Upright Freezer Auto defrost: $(14 * AV + 391) * VR$ Chest Freezer: $(11 * AV + 160) * VR$ (Source: 1993 Federal standards) Also, I would propose eliminating "unknown types" from Table ... (3)--there is no corresponding default energy use calculation for "unknown type". I believe if no actual refrigerator exists in the rated home (e.g. unoccupied) that the rated home refrigerator use would be equal to the reference home use. Notes: The proposed value for single-door units use the 1993 formula for manual defrost (much more common), even though the 1993 standard had two categories (the other was for partial auto-defrost). The distinction is not obvious in the field and the differences are small: in fact, the two categories have the same requirements as of the 2001 Federal standard. In Table... (3) the distinction between refrigerator only or Fridge/freezer can remain, since that is an easily visible distinction (though the difference is trivial). The proposal has three different categories for freezers, because the varying federal minimums result in substantially different energy use. Also, the three types are easily identifiable in the field. All would use the same factor from Table ... (3) under "freezer" to determine AV.		Accepted. Proposed amendment changed as proposed.
Gayathri Vijayakumar	Technical	2		Is it too late to add a section amending the definition of Qualifying Light Fixtures such that LED lighting can be included along with fluorescents and lights with motion or photo sensors?	We are seeing that LED's are being used more frequently but cannot currently contribute to the HERS rating.	Qualifying Light Fixture – A light fixture located in a Qualified Light Fixture location and comprised of any of the following components: a) fluorescent or LED hard-wired (i.e. pin-based) lamps with ballast; b) screw-in LED or compact fluorescent bulb(s); or c) light fixture controlled by a photocell and motion sensor.	Non responsive comment. Should be submitted as a new proposed amendment.