**SDC 301 CALCULATIONS SC Call Draft Minutes**

September 18th, 2023 | 1:00 PM – 2:30 PM Eastern

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**Members Present:** Brian Christensen, Philip Fairey, Rob Salcido, Nick Sisler, Dave Roberts.

**Absent:** Charlie Haack

**RESNET Staff Present:** Noah Kibbe, Clara Hedrick

**Minutes Prepared By:** Clara Hedrick

The meeting was called to order at 1:05 PM ET

**Approve Agenda**

Philip Fairey made a motion to approve the agenda. Brian Christensen seconded. The motion passed.

**Approve 8/14 meeting minutes (**[**Link**](https://www.dropbox.com/scl/fi/t8sc7fxioa7y78u9xji9d/SDC-301-CALCULATIONS-SC-Call-Draft-Minutes-08-14-2023.docx?rlkey=0a53sjsyx3i6wpnw5s1x5158s&dl=0)**)**

Philip Fairey made a motion to approve the modified minutes. Brian Christensen seconded. The motion passed.

**SDC 300 member feedback on Addendum C (Dave, email attached)**

The group reviewed the feedback received from Kelly Parker on draft WD-01 Addendum C. Section 4.4 HVAC sizing is different than 4.4.2 which outlines how to configure sizing in Rated homes. Philip Fairey believes that though the numbers relating to sizing may be slightly higher than should be, this should not affect the performance by much. In Kelly’s rationale, he states that it should not be reduced to .75 and kept at .85.

Dave Roberts to reach out to Kelly Parker to gain more clarification on his concerns and specifically which sections in this standard he finds misleading.

The group also reviewed comments left by Dean Gamble which elaborates on Kelly’s comments. This comment references a footnote included about garages which was added as a result of an IR from Connor Dillon- Dean finds the footnote redundant. The committee generally agreed that it may be redundant, but to leave it out could delay the publication of Addendum C.

Gayathri offered to gain consent from Connor Dillon and Dean Gamble to include clarifying language to address this in the standard in the place of a footnote. The group agreed with this action and Gayathri will report back.

In his comments, Dean Gamble also suggested expanding the list of roof types that may be “predominant”.

**Prepare responses for 2 IRs (Dave, attached)**

**IR301-2019-033:**

In Sharla’s interpretation, a case where there are 2/3 showers in a home are connected is not addressed in the standard. The group further discussed how the standard currently accounts for connected showers in a home. The committee agreed to recommend the proposed interpretation as correct to SDC300.

**IR301-2019-034:**

The committee discussed whether credit is due for sleeping units where equipment is included in shared spaces and energy usage is less. Philip Fairey believes that dishwasher usage should be calculated by the amount of sleeping units using the shared spaces. If these tools in shared spaces are commercial appliances, the inputs and other specifications will not yield accurate results in Rating software.

Philip suggested that the interpretation be recommended as incorrect and direct the submitter to use the Reference case. Brian and Philip agreed that in these cases, Raters should refer to section 4.2.2.5.2 which states that this data shall be assumed for both the Reference and Rated home. Philip and Brian also agreed that further review on these cases and commercial appliances must take place before a viable addition or change to the standard can be made.

The group agreed that the standard does not currently have any language referring to shared appliances, but does include shared hot water distribution, heating and cooling systems, and some others.

In section 4.2.2.7.2 of 4.5 in 301-2019, bullet 17 (table 4.5.2.1) refers to the minimum Rated features and address is in reference to refrigerators outside the home but does not apply to shared refrigerators.

There are no provisions currently in the standard for pro-rating the usage of appliances according to the number of residents. Therefore, there is no way to interpret the submitter’s concerns as there is no relevant language in the standard to interpret. The submitter can submit a proposed change to the standard rather than an IR.

Gayathri and the committee discussed the practical cases in which this situation arises and the options currently available in the software for Raters.

Brian suggested recommending the interpretation be recommended as incorrect because there is no language in Standard 301-2019 that address the energy usage and internal gains in shared appliances. Brian Christensen and Philip Fairey agreed to work on a draft response offline and share with the group.

**Integrated HPWHs in enclosed spaces (Gayathri)**

Gayathri inquired about whether she should submit the current work completed on this topic as a proposed standard change so further litigation can take place. Considering Rick Dixon and committee members experience with similar projects, Gayathri will submit a standalone footnote so this group can proceed with public comment and prevent delay. Integrated refers to 50 or 80 gallon heat pump water heaters, not commercial or other types.

The committee consented to Gayathri’s proposed action of proceeding with submission of current work to proceed with standards process.

**Smart and connected thermostats (Dave)**

There is a push from some to change the thermostat setpoints to reduce the run time to align with ENERGY STAR requirements for smart thermostats. There are many possible approaches to how to account for smart thermostats, including changing the 24hr setpoints in the standard, and other ways to address loads unmet. Some of these approaches may lead to some homes incorrectly receiving better Ratings.

Scott Horowitz is in favor of reviving the working group previously addressing this topic, as he believes that credit should be due to homes with thermostats that have evolved past what currently exists in the standard. Also, a

**More fully incorporating SEER2/HSPF2 into 301 (Dave)**

The group discussed how changes to the a and b coefficients to make them equivalent in SEER2/HSPF2 is the root of the issue. This is not easily done, so an appraisal of the value of these changes should be completed.

Dave Roberts to follow up with the original inquirer to gain more insight into her concerns and report back to the group.

**Adjourn**

Brian Christensen made a motion to adjourn. Meeting adjourned 2:35 ET.