**SDC 301 CALCULATIONS SC Call Draft Minutes**

April 3rd, 2023 | 1:00 PM – 2:30 PM Eastern

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**Members Present:** Dave Roberts (Chair), Neal Kruis, Charlie Haack, Scott Horowitz, Brian Christensen, Philip Fairey, Nick Sisler

**Members Absent:** William Ranson, Rob Salcido, Gayathri Vijayakumar

**Others Present:** Daniel Urban

**RESNET Staff Present:** Clara Hedrick, Laurel Elam, Rick Dixon, Noah Kibbe

**Minutes Prepared By:** Clara Hedrick, Noah Kibbe

The meeting was called to order at 1:05 PM Eastern.

**Approve Agenda**

Brian Christensen made a motion to approve the agenda as amended. Nick Sisler seconded. The motion passed.

**Approve Meeting Minutes from March 6, 2023**

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

**Proposed MINHERS/301 Amendment: Add space constrained equipment definition (Dave, Amendment proposal and Addendum 71f attached)**

The group discussed why this definition is a necessary addition. Philip stated that he dislikes the term substantially in the definition because it is ill-defined and would recommend rewording as follows: *A space constrained unit as designated by the AHRI Directory of Certified Product Performance*. The remainder of the definition is proposed to be removed including footnote 1.

Brian suggested another approach is to remove space constrained AC or heat pump data from the table found in Addendum 71f.  
The committee generally agrees with modifying the proposed definition as stated above.

Rick stated that the next steps are to recommend to SDC300 that this be modified as proposed above in underline/strikethrough format.

Brian Christensen made a motion to approve the new definition as revised and propose to SDC300 in underline/strikethrough format. Philip Fairey seconded. The motion passed.

**Proposed 301 Amendment: Quality of installation of HPWHs (Gayathri, 2 attachments)**

Daniel Urban spoke on behalf of Gayathri and gave an overview of the proposed amendment. The priority items behind this proposal include:

* Beginning discussion regarding the reduced efficiencies seen in HPWHs when installed in smaller space volumes and/or not installed to manufacturer’s recommendations.
* Amendment proposes two options for the committee to deliberate:
  + Reducing efficiency rating or introducing maximum allowable UEF.
  + Same modification as above but in relation to the space volume in which the water heater is installed.

Dave asked what would fall under the umbrella of “not being installed to manufacturer’s recommendations”.

Daniel Urban clarified that there are no specific guidelines, as this is in the early phases of discussion.

Brian expressed concern about the burden put on the Rater due to these additions and suggested a more generalized set of rules as a more practical and enforceable alternative.

Philip suggested that more research and discussion should be had by referring to the manufacturer’s recommended minimum volume level, and further developing a defined equation to be included in the proposed amendment, rather than a default value. The group agreed that this equation is necessary, and more research must be done.

Dave Roberts called for volunteers to research further. This discussion concluded with the following action item:

* Brian volunteered to take on this project with the hot water working group and add it to their mission. This working group will report back to SDC301 Calcs.

**Proposed 301 Amendment: Continuous Exhaust (Gayathri, attached)**

This topic is introduced as a starting point to get the conversation going. The purpose of the amendment is to reduce the energy penalties associated with air leakage in homes that utilize continuous exhaust to satisfy their required dwelling units’ mechanical ventilation requirements.

Brian opposes this, stating it brings 301 off course of its purpose as 301 is not designed to respond to every local code. Brian says this will eliminate the signal that you are not making the best choice from an energy standpoint. The implementation process will require additional inputs.

Daniel referenced an interpretation that was approved in 10/2022 for context on this topic.

Philip inquired about what local codes require continuous ventilation. Code 62 does not require but allows continuous ventilation. Several members of the committee believe that this proposed change alters the standard in an unacceptable manner and are opposed to proposed additions.

This discussion concluded with a consensus that no members of the committee are in support of the proposed 301 Amendment from Gayathri and Daniel Urban.

**Clarification re Infiltration Reduction Factor for MFDU (Gayathri, email attached for reference)**

Scott Doyle provided an overview of the problem, including a number of complaints from Raters. AEXT introduced in version of 301 that might not be consistent with the software that is being allowed for multi-family project. Raters, as a result, are confused if they are expected to calculate AEXT manually and input into software. If a Rater is using older software, what do they do regarding the unintended energy penalty factor of this topic?

Dave inquired the following: is it true that some but not all software automatically adjusts to this calculation? Scott Doyle clarified that older versions of software do not make this calculation automatically. Part of the inconsistency or miscalculation is due to some Multifamily projects still in progress that were permitted long ago when these old software versions were still accepted.

Raters must use either 2019 or 2014 version, not a combination of both.

Neal suggested software give warnings that information is missing, if it does not already do so.

Nick Sisler added that a warning already exists in publication-002 for gross wall area inputs, ratio to floor area, and number of stories within the project.

Neal suggested that if a case appears relating to this issue in software, it can be forwarded for review by Scott Doyle with RESNET Staff so that all cases are addressed promptly.

**Update: IR 301-2022-002 Clarifications to Commercial DHW Efficiency Working Group (Brian)**

Brian informed the group that the process is at a standstill due to time constraints and asked for volunteers to help and offered to serve as mentor. Brian intends to resume progress soon while Dean takes 380 section back to committee in charge of Standard 380.

**Update: CFIS coordination w/ 310 update (Brian)**

Not discussed.

Philip Fairey motioned to adjourn. The meeting adjourned at 2:25PM Eastern.