**SDC 301 CALCULATIONS SC Call Draft Minutes**

July 1st, 2024 | 1:00 PM – 2:30 PM Eastern

[***MEETING RECORDING HERE***](https://transcripts.gotomeeting.com/#/s/732fecbfe006e8c7985f1c77c9f5be58ad9b6af0bb5339e8b4b4e729e5a4d639)

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

**Others Present**: Shilpa Surana, Gary Klein

**Absent:** Nick Sisler, Rob Salcido, William Ranson, Gayathri Vijayakumar

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

**Minutes Prepared By:** Noah Kibbe

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

Dave will be retiring from NREL at the end of August.

1. Approve agenda

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

1. Approve 6/3 meeting minutes ([Link](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.dropbox.com_scl_fi_dhz95mk8os27jcz7zqlq9_SDC-2D301-2DCALCULATIONS-2DSC-2DCall-2DDraft-2DMeeting-2DMinutes-2D6-2D3-2D2024.docx-3Frlkey-3Dcu8vimubbfay3e5jpueoj6cun-26st-3Dhb9jl9x8-26dl-3D0&d=DwMFAg&c=euGZstcaTDllvimEN8b7jXrwqOf-v5A_CdpgnVfiiMM&r=JnhbwqPwQqN2Joz-qNtDyw&m=0Hxj2Dz3-uZR2Yma42SkTtJYAE3AV7aVktT19j78LLt5BQly40A3b51lxrGMEtq2&s=rh9nJH5b6xeaTOdyorAt1xfVROYfQ322nckRe_HwSwg&e=))

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

1. Updates from Neal
   1. HP language from SCC  
      Direct Expansion Modeling Appendix  
      Single Stage Systems will be reviewed and expanded upon later.  
      Variable Capacity Systems – cold climate systems that will be included in ratings, evaluating credit for the systems. There is not a lot of data for Single Stage systems available and assumptions must be made and clarified.  
      Dave asked if the issue is that the data is not certified. Neal noted there are two different situations. The data is not certified so manufacturers do not have the same responsibility for the data to be accurate. As a result, much of the data is unreliable.   
      Brian asked if there was a way to build into the Standard that these items will need to be revised in the future. Rick said these could be listed in a reference document.  
      AHRI data is based on total cooling capacity, but the equipment used only relies on sensible cooling capacity.   
      The defrost approach section needs to be updated and single- and two-speed sections need more content.  
      Neal believes nothing in this document should contradict the Standard.   
      Scott noted there is a lot of technical language in this document that may be difficult for general users to understand during the public comment period.
   2. Table 4.2.2(1) revamp  
      The plan is to work on this after PDS-01 comes back from public review.
2. Review/draft Addendum F public comments (see attached)

Gary and Shilpa joined the meeting to discuss their comments.

Gary’s Comments

Issue: An air source heat pump water heater in an enclosed space strangles the airflow. The only product on the market that can be put in an enclosed space is one with integrated electric resistance in the tank. The question is, are we going to have rules that say the only thing you can put in a small room is a heat pump water heater with electric resistance?

Shilpa’s Comments

Issue: The proposal does not allow heat pump water heaters in enclosed spaces.

Discussion

Brian asked at what point Addendum F may be dropped from 301-2022 and moved to 301-2025. Rick said it would depend on the timing.

Rick said it may benefit RESNET overall to take more time before implementing these Addenda to refine and update as needed.

The vast majority of air source heat pump sales are hybrids because that is what the biggest three manufacturers produce. There are new types of heat pumps that will be coming in the future.

Dave said the draw profiles should also be introduced. Philip said these have been Standardized. Gary asked what the biggest draw profile is. Philip said it is roughly 3 gallons per minute in the 64-gallon per day range.

Although the comments were not resolved, the context provided by Gary and Shilpa will help the committee determine revisions going forward.

Brian suggested via email that all comments be accepted in principle as a simulation strategy is considered.

1. Adjourn

The meeting was adjourned at 2:30PM ET.