**SDC 301 CALCULATIONS SC Call Draft Minutes**

[MEETING RECORDING](https://transcripts.gotomeeting.com/#/s/d3fef1ef822e0c3dac07ddd2a7c5dcaeaf70bbda045fc1dbe6f08275ef1b3590)

October 7th, 2024 | 1:00 PM – 2:30 PM Eastern

**Members Present**: Brian Christensen, Gayathri Vijayakumar, Scott Horowitz, Rob Salcido, William Ranson, Neal Kruis, Charlie Haack, Nick Sisler

**Absent**: Philip Fairey

**RESNET Staff Present:** Noah Kibbe, Molly Miller, Rick Dixon

Meeting began at 01:03 PM ET

**Approve agenda**

Nick made a motion to approve the agenda. Brian seconded. The agenda was approved.

**Approve 9/9 meeting minutes (attached)**

Rob made a motion to approve the minutes. Brian seconded. The minutes were approved.

**Update on MINHERS Addendum 76, 81 & PDS-01 301-2025**

Gayathri said the comments from the last meeting are approved.

Rick said the SAB confirmed the final addendum.

**Review and make recommendation to SDC300 on MINHERS 77 (iHPWH, Gayathri)**

Gayathri explained this definition includes the word “Hybrid” instead of “Integrated” because it doesn’t include all definitions.

Brian suggested to Gayathri not to call it a hybrid and call it an “Integrated Heat Pump Water Heater.” If you keep hybrid in the definition, the description must include the word hybrid.

Nick and Scott agreed with Brian. Nick said hybrid doesn’t include all fuels and integrated does.

Gayathri said she would investigate that and get back to the group.

Gayathri showed everyone in the group, #5 on the document, includes the sentence “v” explaining the table above. Gayathri asked everyone's thoughts on the sentence and what they would like changed.

Brian suggested incorporating the word "Hybrid" to enhance the integration within the sentence.

Scott said the language wouldn’t make sense to include Hybrid. Scott suggested calling it “Integrated” and the group agreed.

Gayathri let everyone know that #6 on the document includes a COP equation for a hybrid integrated heat pump water heater.

Brian thinks there needs to be a sentence somewhere that says if someone isn’t using a hybrid heat pump then go “here” and use this instead. Gayathri and Brian agreed.

Brian suggested adding COP and UEF to Table 4.5.2 in the commercial equipment section.

Nick asked if a net-free opening was easy to measure. Gayathri said no. Some products show how to measure it, but others don’t.

Gayathri didn’t plan to include something, but the original UEF is available for use.

Scott wondered if Hybrid was necessary here.

Gayathri agreed but thinks there would be pushback if they don’t define what the difference is.

Scott and Neal will get together and come up with some new language to help define the difference between what this COP shows vs others and send it to Gayathri.

Gayathri suggested everyone in the group could put their constructive comments on the document and she will update it and then they will revisit it.

*October 21st Deadline.*

**Review and make recommendation to SDC300 on MINHERS 82 (Heat Pump, Neal)**

Rick said that this document includes information on all the technical terms for 303.1.

Neal said Addendum 82 will be a hyperlink and is shown below in the attached document. The Direct Expansion Modeling shows consistent data across all 3 kinds of heat pumps.

Nick mentioned he is struggling to find exactly what is needed at higher temperatures and different speeds. Is the goal of this to use AHRI inputs of the heat pump?

Neal said the VCS (variable capacity system) and table below (on the document) show how to find the AHRI inputs that work for specific temperatures.

Nick said it needs a description explaining what the table is. Neal agreed at the beginning of each section it needs a description.

Neal stated the cycling has been updated on how the system performs and includes data. (Operating Performance Section) The “Rated Features” section has been updated and should be sent to raters. Neal suggested sending it out for comments and having a meeting to review and update.

Gayathri said the point of going over this is whether this group agrees to send it up to SDC300 for review or if we need more time for updates.

Brian said if this goes out as a MINHERS addendum versus an ANSI it won’t get as much attention.

Gayathri agreed and said everyone should send it specifically to raters and get them to send in their comments.

Neal said this will interrupt calculations and will go through an impact analysis, and once it does that, then they will have beta versions.

Gayathri asked if Neal was interested in hosting a webinar for raters and manufacturers to get more comments. Rick agreed that this was a good idea.

Neal suggested taking one or two weeks for everyone in this group to send him all the updates/comments they have before doing a webinar.

*Feedback is needed by October 21st.*

**Adjourn**

Meeting adjourned at 2:30 PM ET