**SDC 301 CALCULATIONS SC Call Draft Minutes**

December 5, 2022 | 1:00 PM – 2:30 PM Eastern

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**Members Present:** **Dave Roberts (Chair), Neal Kruis, Philip Fairey, Charlie Haack, Nick Sisler, Gayathri Vijayakumar, Rob Salcido, Scott Horowitz, William Ranson**

**Members Absent:**

**RESNET Staff Present: Clara Hedrick, Emma Bennett, Laurel Elam**

**Minutes Prepared By:** Clara Hedrick

Meeting called to order at 1:06 PM Eastern.

**Approve Agenda**

Brian Christensen made a motion to approve the agenda as amended. Philip Fairey seconded.

**Approve Meeting Minutes from November 7, 2022**

 Brian Christensen made a motion to approve the minutes as amended. Rob Salcido seconded.

**Recommending 301-2022 Addendum C PDS-01 to SDC**

 **Removing CFIS**

**Dean Gamble brought concerns to a SCC call regarding pulling CFIS out of Addendum C. Brian believes CFIS belongs in all training documents, but needs more work across several subcommittees. The group generally agreed to remove CFIS from Addendum C.**

 **Review post 11/7 meeting changes (Neal, Philip; see “Addendum C w post Nov 7 meeting items addressed”)**

**a.** Review and update Normative Appendix C.2 equations to have appropriate conversion units-

Philip Fairey outlined the equations added to the conversion factors list in C.2. SLA equation 5 was altered to read: ELA/ CFA \* 144, and equation 21 was added to define how natural ACH should be calculated using 4 Pascals. This is written as NL = ach4 Natural AHC.

Note G: Proposed change of Neal’s is to change instances of ACH to ACH4 . Also included this clarification in normalized leakage definition of note G, stating “Except where the Rated home air exchange rate is specified as ACH (at a 4 Pa) in which case NL shall be determined using Equation 21”.

                                                  ii.      Review possibly combining data from tables in section 4.2.2.7.1.1 and 4.2.2.7.1.2 into one table to reference

This was discussed in offline calls, but Philip and Neal decided to leave the tables separate.

                                                 iii.      Ventless Dryer Table to be included in section 4.2.2.7.2 and removed from Table 4.2.2.7(1)

There was a decision to remove ventless dryer in this table, the group reviewed these changes in 0:35 of the recording. Once these changes along with removing CFIS are made, this needs to be finalized and submitted for public comment. This can be done via email if needed.

                                                  iv.      Include internal gains in rated home appliances clause in section 4.2.2.7.1

There were a total of 7 changes made to clarify internal gains and one to remove ventless dryer. In section 4.2.2.7.2, there was more clarifying language added regarding internal gains in the Rated Home. Included definitions of finternal and fsensible factors in internal gains.

c. Impact statement

                                                               i.      Neal – thoughts/position from SCC

Making changes equitable for all software developers is a priority of the committee.

                                                             ii.      Philip – comments in “Addendum C w Philip Fairey Impact Assessment 2022\_12\_5.docx”

Amended Philip’s comment in 3.2 onsite battery storage to include “for certain scenarios – when onsite battery storage is present.” This language could help readers understand there is no change to HERS index’s here.

Statement added in equation 4.1-1a is clarification only, and will not impact HERS Index.

In section 4.1.1.1, added “in addition this leads to greater consistency across software tied to rare cases.”

In comments of draft, group added additional comments categorizing which aspect clarification is meant to address ie: consistency

Philip to generate quantitative data spreadsheet of changes to accompany the qualitative impact assessment. Ekotrope to come up with another Quantitative analysis regarding estimated changes in software.

4.2.2.7 proposed change is good example of a quantitative change to be analyzed in a spreadsheet. Added a comment in this section to note that a small changes to HERS Index may be present in highly efficient systems and MF units.

Philip stated that Addendum C will not go for public comment until SCC formally votes on moving this draft forward.

From Philip: Rick believes the best way to be explicit about changes is to add all old and new equations in a spreadsheet and show the difference. Also, the consistency subcommittee must determine a qualitative estimation of the impact. It is possible for this draft document to be submitted for public comment.

Group all agreed on Philip proposed all changes made are moved to one document, then use Word to do a document comparison. Brian believes the most important editorial changes exist in 4.2.2.7.1.

Next steps:

Dave to work with Rick to determine best way to compile changes, and how to best submit this for public comment.

Philip to generate quantitative data spreadsheet of changes to accompany the qualitative impact assessment.

Ekotrope to come up with another quantitative analysis regarding estimated changes in software.

Meeting adjourned 2:30 ET.