



# International Code Council

## Solar Rating & Certification Corporation

### COMMITTEE MEETING MINUTES

### SOLAR THERMAL STANDARD CONSENSUS COMMITTEE ([IS-STSC](#))

A meeting of the ICC Solar Thermal Standard Consensus Committee (IS-STSC) was convened on May 15, 2024 to start work on revisions to standard *ICC900/SRCC 300 Solar Thermal System Standard*. The meeting and project was conducted in accordance with [ICC’s ANSI-approved standard development procedures](#).

#### 1. Meeting Opening

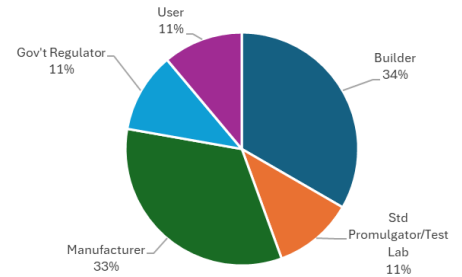
##### a) Welcome & Roll Call

*Staff secretariat, Shawn Martin, welcomed the attendees and convened the meeting at 4:02 PM EST.*

##### b) Quorum and Membership Review

*Martin called the roll of IS-STSC members with attendance recorded below. Martin invited all new attendees to introduce themselves.*

*Martin indicated that with 7/9 committee members present, the threshold of 5 for quorum had been met. He reported that presently the committee was balanced, per ICC’s standard development procedures. All attendees are listed below.*



NAME	#1 4/17	#2 5/15	#3	#4	#5	# 6	#7	#8	#9	#10
Adam Chrisman [B]	x	x								
Robert Grady [C]	x	x								
Jason Hall [A]		x								
Kevin Kalakay [H]	x	x								
Mitchell Ramseur [D]	x	x								
Al Rich [B]		x								
Richard Horton [A]										
Henry Vandermark [B]	x	x								
Austin Zeller [A]	x									
<b>TOTAL</b>	6	7								
<b>QUORUM</b>	5	5								

**INTERESTED PARTIES PRESENT:** Steve Harrison (QSBRI/CSA TC420), James Richards (SunBank), Alex Ward (FAFCO), Larry Kidd (Rheem)

**ICC STAFF MEMBERS PRESENT:** Shawn Martin, Isai Ayala

##### c) Previous Meeting Minutes Review and Approval

*Martin requested any comments or changes for the minutes of the meeting conducted 4/17 and distributed to the committee shortly after. None were provided.*

##### d) Agenda Review and Approval

Martin reviewed the draft meeting agenda for the 5/15 meeting and requested feedback and comments. None were provided. Grady made a motion to approve the 4/17 minutes and the 5/15 agenda and Ramseur seconded. It was approved unanimously.

## 2. Discussion of ICC 900/SRCC 300 Working Draft

Chairman Chrisman suggested that the committee walk through the current working draft discussing each section in turn. Vice Chairman Grady expressed support for this approach as well. There was no objection, so Martin displayed the current working draft, noting the addition of a Table of Contents per the suggestion made during the last meeting. The group discussed the following sections in order.

- a) Chapter 1: (General, Scope). The committee discussed the scope of applicability of the standard. Martin noted that to date the standard has been sufficiently broad to include systems that heat both liquids and air. But no provisions are provided for solar air heating systems, and there does not appear to be a demand for air heating system provisions. He also noted that air heating systems contain many components that are not currently addressed, such as fans and ducts. The committee discussed whether the scope should remain broad and inclusive or focus further on liquids or even further on water heating. After some discussion, the consensus was that the standard is only used for water heating systems, and therefore should focus on them exclusively. There was some brief discussion on the possible use of the term “domestic water systems” but ultimately “water heating systems” was selected instead to allow for industrial and commercial water heating applications. The committee also agreed that systems used exclusively to heat water for pools and spas should be excluded since they are highly specialized and are already addressed in a separate standard, ICC 902/SRCC 400. The exclusion for solar thermal systems used to heat fluids for power generation was retained.
- b) Chapter 2: (Definitions). Martin noted that he had reviewed the current list of definitions and struck out those terms that no longer appear in the document. He also indicated several definitions that had been marked for inclusion or update as a result of the new ICC 903/SRCC 500 Solar Tank Standard. Grady also suggested a reference to the definitions in ISO 9488 for those solar terms not included in this document. Martin agreed to draft some language for this for review by the committee. Chrisman suggested that further discussion on the definitions be tabled until the other sections are completed. There were no objections.
- c) Chapter 3: Design. The group discussed the concept of placing installation-related provisions in Appendix B in order to better allow for use of the standard in locations with different codes. There was no objection and the opening statement in Chapter 3 was revised to reflect this change. The group then discussed provisions related to the maximum design temperature and pressure requirements, making a number of revisions and clarifications. The topic of freeze protection was discussed at length, with the committee members expressing general support for the approach (if not all of the language) in the current section. It was noted that the provisions should allow for different means of freeze protection, including manual draining in the case of systems intended for seasonal use only. It was also agreed that system testing to confirm freeze protection was not practicable or cost-effective. Several commenters stated that freeze resistance is a function of both the ambient temperature and the time at the reduced temperature. Chrisman and Harrison agreed to review the current language and suggest revisions for discussion during a future call. Provisions for vacuum pressure protection and outdoor installation were revised and generalized.

## 3. Other Business

None

## 4. Action Items & Adjournment

The action items from the meeting were summarized as follows:

Schedule next meeting for 5/29/2024 4:00 EDT	Shawn Martin w./ Chair/Vice
Review freeze tolerance language in Chapter 3 and suggest revisions.	Chrisman, Harrison

The meeting was adjourned at 5:37 PM EDT.

May 15, 2024