

**ICC 815 Sizing Water Distribution, Drainage and
Venting Standard Consensus Committee**

Meeting #2 - Minutes

April 24, 2023

Chair: Gary Klein

Vice Chair: Philip Parisi

Secretariat- Ramiro Mata

The second meeting of the ICC 815 Sizing Water Distribution, Drainage and Venting Standard Consensus Committee (IS-SWDDV) was held on April 24, 2023 in virtual format. The meeting was conducted in accordance with ICC’s Consensus Procedures. https://www.iccsafe.org/wp-content/uploads/ICC-Consensus-Procedures-ANSI-approved-8_2_21-BOD-apprvd-8_27_21.pdf

1. Welcome
Chairman, Gary Klein, and Staff Secretariat, Ramiro Mata, welcomed attendees and convened the meeting at 2:03pm EDT. Mata reviewed housekeeping items and informed attendees that the meeting will be recorded for internal reference only and that recording by attendees is prohibited.
2. Roll Call – Klein called the meeting to order with a roll call of ICC 815 (IS-SWDDV) committee members – Symbol indicates present. With attendance below, Mata indicated the threshold of 10 for quorum has been met.

Committee Members

Regulator		User		Manufacturer		Builder	
<input checked="" type="checkbox"/>	Joseph Alexander	<input checked="" type="checkbox"/>	Esber Andiroglu PhD, PE	<input type="checkbox"/>	Marcus Elmer	<input checked="" type="checkbox"/>	Dan Buuck
<input checked="" type="checkbox"/>	Richard Grace	<input checked="" type="checkbox"/>	Gary Klein	<input type="checkbox"/>	Dave Parney	<input checked="" type="checkbox"/>	Joshua Trujillo
<input checked="" type="checkbox"/>	Terry Haughn	<input checked="" type="checkbox"/>	John Lansing	<input type="checkbox"/>	Lance MacNevin PE	Consumer	
<input type="checkbox"/>	Thomas Roberts	<input checked="" type="checkbox"/>	Juneseok Lee PhD, PE	<input checked="" type="checkbox"/>	Kyle Thompson PE	<input checked="" type="checkbox"/>	Tim Keane
<input type="checkbox"/>	Ross Wakefield	<input type="checkbox"/>	Philip Parisi Jr. PE			SDO/Test Lab	
						<input checked="" type="checkbox"/>	Kathryn (Katie) Foster

- ICC Staff Members present: Matt Sigler (PMG), Mark Fasel (PMG)
 - Interested Parties: Mercedes Camacho, Dan Cole, Drew Rich, Frank Schmidt, David Yashar
 - a. <https://www.iccsafe.org/products-and-services/standards-development/is-swddv/>
3. Agenda Review and Approval – The agenda was modified to move Old Business prior to the Title, Purpose and Scope discussion. The revised agenda was approved by consensus.
 4. Meeting #1 Minutes Review and Approval – Approved by consensus
 5. Review of Action Items –

- a. Doodle Poll was sent to members for future meetings. Invitations were sent to members and interested parties.
 - b. The University of Miami presentation has been uploaded to the publicly accessible 815 webpage.
 - c. Teams access instructions were sent to committee members. Since only half of the members had attempted to access the private site, the chair suggested postponing the discussion until the next meeting.
6. Access to ICC 815 Public Webpage – Mata demonstrated the public webpage and explained the filing structure. The 815 webpage can be found here: <https://www.iccsafe.org/products-and-services/standards-development/is-swddv/>
7. Old Business
- a. Rich asked for a flow meter recommendations and mentioned using the Water Demand Calculator as a baseline.
 - b. Lee: more graduate students maybe needed to help with research.
 - i. Andiroglu: The committee must define scope and expand if needed.
 - c. Klein:
 - i. Peak water demand calculation is a separate discussion.
 - ii. Have U of Miami propose experiments so that the committee can help with methodology
 - iii. Invite Markus Lenger to discuss data acquisition, instrumentation and measurement methodologies.
 - iv. Create a Measurement Working Group to propose recommendations for instrumentation and measurement methodologies. The following members volunteered:
 1. J. Lansing
 2. T. Keane
 3. J. Lee
 4. T. Haughn
 5. G. Klein
8. Title, Purpose and Scope –
- a. The committee again reviewed the original PINs submitted to ANSI as a basis for discussion. It was agreed that larger buildings and mixed-use buildings for non-transient occupancies will be the initial focus. Sigler added that hotels, healthcare facilities were not the intended occupancies in the scope.
 - b. Klein: Buildings with booster pumps may be good candidates for data acquisition because those systems track the volume of water used.
 - c. Klein: Invite Steffi Becking and Elise Wall to speak about State of California Water Demand Calculator Project and the methodology and flow rate information that were used.
 - d. Drew: Maintenance issues at several UofM buildings regarding inadequate amount of water to move waste.
 - i. Lansing: Are existing drain lines too large to support the current volume of water? Both US model codes require drains that are oversized compared to drainage standards from other countries. US also uses the smaller flush volumes and shallower gradients on horizontal drains.
 - e. Klein: Need flow data of incoming versus outgoing water.

- f. Lansing: Limited data when it comes to volume leaving the building. Drains in the US are designed for a filling rate of 50% while other countries are designed for 75%.
 - g. Lee: Will share simulation data
 - h. Klein: Invite Todd Kuchta to discuss his work on drain lines.
 - i. Klein: Suggest calculating water demand and drain flow predictions based on UPC and IPC for the 20 UofM buildings and compare to actual data.
9. Naming Convention – To emphasize potential difference in terminology, the committee was shown a powerpoint presentation illustrating various plumbing systems and fixtures created by Gary Klein. Members were then asked to name plumbing system components and fixtures.
10. Action Items
 - a. Provide contact information for Elise Wall, Todd Kuchta and Markus Lenger (Klein)
 - b. Provide images for plumbing supply fittings (Grace)
 - c. Arrange Measurement Working Group meeting (Mata)
 - d. Arrange meeting with Non-US Pipe Sizing/Codes speakers (Mata)
 - e. Contact Markus Lenger to speak about data acquisition and measurement methodology (Mata)
 - f. Contact Steffi Becking, Elise Wall to speak about California WDC project (Mata)
 - g. Contact Todd Kuchta to speak about drain research/projects (Mata)
11. Next meeting – June 1, 2023, 1pm – 5pm CDT (2pm – 6pm EDT)
12. Meeting adjourned at 3:58 CDT (4:58 pm EDT)