

**ICC 815 Sizing Water Distribution, Drainage and
Venting Standard Consensus Committee (IS-SWDDV)**

Meeting 20 - Minutes

October 19, 2024

Long Beach, California

Chair: Gary Klein

Vice Chair: Philip Parisi

Secretariat- Ramiro Mata

Meeting 20 of the ICC 815 Sizing Water Distribution, Drainage and Venting Standard Consensus Committee (IS-SWDDV) was held on October 19, 2024, in-person at the Long Beach Convention Center. 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, convened the meeting and welcomed attendees at 1:08pm Pacific time along with Staff Secretariat, Ramiro Mata. Mata reminded attendees about the ICC Code of Ethics and the Anti-Trust Policy, both of which can be found on the ICC 815 (IS-SWDDV) webpage.
2. Roll Call – Klein called the meeting to order with a roll call of ICC 815 (IS-SWDDV) committee members – Symbol ☒ indicates present, ☐ indicates absent.

Committee Members

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

ICC Staff – Matt Sigler, Tom Roberts, Gary Gauthier

Interested Parties and Guests –Drew Rich, Austin Perry, Markus Lenger, Steffi Becking, Marting Port, Mark Falcon

3. Quorum and Membership Review - With seven committee members in attendance, Mata announced the threshold for quorum was not met.
4. Approval of Meeting 19 Minutes from September 16, 2024 – Tabled, no quorum.
5. Approval of Meeting 20 Agenda – Tabled, no quorum
6. Research Update – Rich

- a. Presented a network-based water demand estimation approach involving uploading floor plans, using machine learning to identify fixtures and pipes, and simulating water usage patterns to determine flow rates and create distributions for pipe sizing.
 - b. Key goals are to develop a simple, modular, and adjustable design approach for plumbing systems intended for global applications while ensuring public health and safety.
 - c. The simulation process involves selecting appropriate equations for water usage patterns based on location, demographics, and occupancy type, using data from census tracks and water consumption data and testing for fixture activation, duration of use, percentage of hot/cold water, and intensity, running multiple trials to generate distributions for design flow rates and equipment sizing.
 - d. It will incorporate the use of a standardized data collection process and integration with water reuse systems like rainwater catchment and graywater.
 - e. Discussions were held on tracking hot and cold-water pipes separately, considering building characteristics like number of bedrooms/bathrooms, and incorporating data from smart fixtures.
 - f. Concerns were raised about potential conflicts with existing industry practices and the need for collaboration and data sharing from various stakeholders.
7. Measurement Equipment Demonstration – Markus Lenger, Co-founder of BlueSense, brought various types of instrumentation for use in water demand and drainage testing and explained the advantages and disadvantages of each type along with the proper installation.
8. Action Items
 - a. Review initial draft of Phase I DWV literature review – ICC staff/Lansing/Klein
 - b. Develop Working Group Work Plans – WG Chairs
 - c. Draft charter for ICC IT as part of the International Code Council Encyclopedia of Plumbing (IEP) database development request – Mata
9. New Business
10. Old Business
11. Next Meeting – November 4, 2024, at 1pm-3:30pm Central (2pm-4:30pm Eastern).
12. Adjournment – Meeting adjourned at 3:30pm Pacific (4:04pm Eastern)