



**ICC 825 Private Sewage Disposal Systems
Standard Consensus Committee (IS-PSDS)**

Meeting #10 Minutes – January 9, 2024

The tenth meeting of the ICC 825 Private Sewage Disposal Systems Standard Consensus Committee (IS-PSDS) was held on January 9, 2024, 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, Shaun May, convened the meeting and welcomed attendees at 3:09 CST (4:09pm EST)* along with Staff Secretariat, Ramiro Mata. Mata reviewed the ICC Code of Ethics and the Anti-Trust Policy, both of which can be found in the ICC 825 webpage. Mata also announced that the meeting will be recorded for internal reference only and that recording by anyone other than ICC staff is prohibited.

**NOTE: Working group sessions were held from 1pm – 3pm CST (2pm – 4pm EST). Unless the committee elects to change, future meetings will follow this format.*

2. Roll Call and Committee Introductions – May called the meeting to order, and Mata took roll call of committee members – indicates present.

Regulator		User		Manufacturer		SDO/Test Lab	
<input checked="" type="checkbox"/>	Shaun May	<input checked="" type="checkbox"/>	Esber Andiroglu PhD, PE	<input checked="" type="checkbox"/>	Bob Carpenter	<input checked="" type="checkbox"/>	Derek DeLand
<input type="checkbox"/>	Peter McLennan	<input type="checkbox"/>	Tunzyaan Griffin	<input type="checkbox"/>	Jonathan Kaiser		
		<input type="checkbox"/>	Albert (Bob) Rubin PhD	<input type="checkbox"/>	Ray Kennedy		

3. Interested Parties and Guests
 - a. Interested Parties – Austin Perry, Jim Richardson, Mathew Lippincott
 - b. New Attendees –
 - i. Kevin Kalakay, Director of Plumbing - Licensing and Regulatory Affairs with the Michigan Bureau of Construction Codes
 - ii. Michael Mezzacapo, Environmental Scientist – US EPA Office of Wastewater Management.
 - c. ICC Staff – Rich Anderson, Tom Roberts
4. Membership and Quorum – Mata indicated that with only 4 members present, quorum was not met.
 - a. Membership Update –
 - i. Dr. Andiroglu stated that Miami-Dade County will be providing a replacement for Carlos Hernandez.
 - ii. Mata mentioned sending a committee application to Paula Kehoe with the San Francisco Public Utilities Commission and has reached out to Jesse Bliss with the

National Environmental Health Association to consider participation in the committee.

5. Review of Project Outline – May mentioned revising the scope to address maintenance requirements separately.
6. Review of Project Timeline – Mata shared a project timeline that sets a target completion date of March 2025 including the required public comment period and ANSI approval. Shawn May mentioned that this plan could be changed at any time based on working groups' progress.
7. University of Miami Research Update – Perry provided an update on behalf of Dr Andiroglu regarding their research efforts and their effort with working group one. Draft of the Preface is completed. They are focusing on innovative solutions in response to climate change impacts over next several decades while considering common circumstances happening globally. Define climate change impact, wastewater reclamation, treatment and dispersal hoping that findings will help shape the standard.
8. Working Group Updates
 - a. WG 1 Open Defecation/Unimproved Systems –
 - i. Perry provided which is focused on developing a standard for communities or individuals using open defecation and unimproved sanitation facilities. The group aims to develop a guide that provides easy steps to improve public health and environmental health in such communities. They are working towards creating a narrative structure for recommendations that can be used by international organizations.
 - ii. Lippincott highlighted the importance of figuring out thresholds of access required for various behaviors to achieve public health outcomes. He cited examples from Singapore where no reductions in diarrhea were seen until 40% of people had access to sewers and in Tokyo where there were no reductions in dysentery until 70% people had access to sewers.
 - iii. Containment of excreta – when is something contained and what controls are in place to ensure the excreta is safely contained.
 - iv. Providing guidance via an appendix to areas where open defecation/unimproved systems are in use. Looking at proper maintenance and operation of the system as a critical aspect.
 - v. Working to finalize a draft in a month and present it to the full committee for feedback.
 - vi. Added Lippincott to the working group.
 - b. WG 2 Improved/Limited Systems –
 - i. DeLand explained the focus of Working Group 2, which is limited sanitation systems. These are shared systems with no access to individual systems, making it difficult to define criteria or standards language around them. The group discussed incorporating management aspects within design and disposal criteria.
 - ii. May emphasized leaning into the UN framework while designing improved sanitation systems as appropriate design coupled with maintenance drives septic outcomes rather than just having advanced technology without proper maintenance or exposure.

- iii. Discussed the need to differentiate between limited and basic groups. The group debated whether they should be two separate categories or just called improved facilities. They decided to focus on improved facilities for now but may revisit this decision later. Access was also discussed, with a definition provided for what an improved facility looks like.
- iv. Talked about how disposal and management are closely related in terms of safely managing waste. He incorporated the management aspect within the disposal in his scaffolding draft, which will be further tweaked by the working group before finalizing it.
- v. Pit Latrine Design - There is no formal standard on how to build a pit latrine. The group needs to figure out what it looks like in terms of specific criteria such as materials used, size, depth, isolation from water sources etc.
- vi. Treatment Section - The treatment section was left blank because there are no performance aspects of systems yet. However, some things are probably applicable under treatment where people are looking for very specific levels for very specific uses.
- vii. Disposal End - This section discusses disposal of pit latrine wastewater, leach pit wastewater, septic tank wastewater, all these collection sources and how we dispose of them under safely managed.
- viii. Disposal vs Dispersal Section - There is confusion between disposal vs dispersal sections; some say dispersal is a method of disposal while others think it should have its own separate category due to environmental appropriateness concerns when applying certain materials in certain places.
- ix. Placeholder for future discussion – Create a placeholder in the document until the working group figures out what should go under it. The group needs to decide whether to incorporate it into "safely managed" or create a new category.
- x. Global standardization of septic systems - Discussed including conventional systems, mound systems, and pressure distribution in the global standard. They suggested using base model language from the IPSDC and matching them with other codes to build a comprehensive framework.

9. Review of Action Items

- a. Septic Tank Data – Kennedy - Tabled
- b. Send working group rosters to chairs and members – Mata - Completed
- c. Determine how to share screens during breakout sessions – Mata - Completed
- d. Send OWTS Access Flow chart to Mata – Perry - Completed

10. New Business – None

11. Old Business –

- a. May proposed creating an annex for maintenance and shifting performance-based systems into another subset of code since there are many types of on-site sewage treatment options available. He emphasized that proper maintenance is essential regardless of system components, so it should be highlighted separately from other topics within this project's scope.

He mentioned that there is more to maintenance than just maintaining a specific on-site sewage disposal system. The discussion also included topics such as pump trucks, land application sites, vegetation uptake and nutrient management. Esber Andiroglu agreed with Shawn's suggestion but added that they should wait until the main body of the standard develops before creating a separate section for maintenance.

- b. It was suggested to add an appendix for maintenance instead of including it in the main body of the standard since best practices are not standards language. DeLand supported this idea and proposed adding some basic requirements such as pumping out tanks when there's sludge or checking them periodically to make sure they're not surfacing.
 - c. Anderson informed everyone that if they were modeling this off private sewage disposal code, then there would be very limited information about maintenance within it. He explained how the International Property Maintenance Codes only includes general terms such as 'it shall be maintained within its original order' or 'any new additions will meet new requirements.'
 - d. Maintenance Standards - May emphasized the need to manage effluent created by on-site wastewaters. Richardson agreed and suggested writing generalized statements about maintenance, while also including a tagline for local rules. Mata proposed adding a simple requirement for maintenance, which includes following manufacturers' or installers' instructions and keeping records of activities.
12. Next meeting – February 13, 2024
- d. Working Groups at 1pm – 3pm Central (2pm – 4pm Eastern)
 - e. Full Committee at 3pm – 5pm Central (4pm – 6pm Eastern)
13. Meeting adjourned at 4:44 CST (5:44pm EST)