



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

Meeting #12 Minutes – March 12, 2024

The twelfth meeting of the ICC 825 Private Sewage Disposal Systems Standard Consensus Committee (IS-PSDS) was held on March 12, 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 3:07 CDT (4:07pm EDT)* 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 otherwise, 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 type="checkbox"/>	Derek DeLand
<input type="checkbox"/>	Peter McLennan	<input type="checkbox"/>	Tunzyaan Griffin	<input checked="" type="checkbox"/>	Jonathan Kaiser		
		<input type="checkbox"/>	Albert (Bob) Rubin PhD	<input checked="" type="checkbox"/>	Ray Kennedy		

3. Interested Parties and Guests
 - a. Interested Parties – Austin Perry, Kevin Kalakay
 - b. Guests -
4. Membership and Quorum – Mata indicated that with 5 out of 8 members in attendance, quorum was achieved.
 - a. Membership Review – The committee is still in search of replacements to fill several vacant seats. Mata will follow up internally to get a list of applicants and get them processed.
5. Approval of Minutes – Minutes from December 12, 2023, January 9, 2024, and February 13, 2024, were approved by letter ballot received on March 8, 2024.
6. Approval of Agenda –
 - a. Agenda for December 12, 2024, and February 13, 2024, were approved by letter ballot received on March 8, 2024
 - b. Agenda for March 12, 2024 – Motion to approve by Carpenter, seconded by Kaiser. Motion passed unanimously.

7. Approval of Project Outline – Outline dated November 14, 2023, was approved by letter ballot received on March 8, 2024.
8. Review of Project Timeline – The committee reviewed the draft project timeline. Target date for Working Groups 1 and 2 to complete draft language was moved to April 2024.
9. University of Miami Research Update – Perry
 - a. Discussed the draft of the preface, highlighting its academic nature and the need for a general background introduction versus focusing on research portions. He aimed to circulate it by week's end for feedback. May commended Perry's work, emphasizing the importance of explaining the motivation behind creating the standard and aligning with UN principles. The preface was expected to provide material while awaiting an environmental report.
10. Working Group Updates
 - a. WG 1, Open Defecation/Unimproved Facilities, Update – Perry reported that the task for WG1 is nearly complete. He expects to submit the draft for the Preface and Unimproved Facilities by March 15th.
 - b. WG 2, Improved Limited OWTS Update – DeLand was unable to attend but sent a draft of the agenda for today's meeting and proposed language for the standard. Mata provided a summary of the meeting mentioning that comments were received from John Kaiser and Ray Kennedy regarding the draft that DeLand sent to WG 2 members for review. WG 2 members discussed Kaiser's comments for most of the meeting and planned to review Kennedy's comments at the next meeting. However, the committee chose to review Kennedy's comments during the committee meeting.
11. Review Action Items from February 13, 2024, committee meeting
 - a. Send letter ballots to approve Draft outline, meeting minutes, agenda (Mata) - Completed
 - b. Review Septic and Holding Tank sections of WG2 draft (Kennedy) – Completed. Kennedy discussed his comments with the committee.
 - i. Emphasized the advancements in septic tank products, highlighting the importance of considering factors such as structural loading, volumetric sizing, water tightness, and chemical resistance. Stressed the need for maintenance to prevent costly repairs and protect groundwater.
 - ii. Mentioned material choices for construction projects, particularly concrete usage. There was an emphasis on considering alternatives to concrete due to logistical challenges in certain areas where concrete may not be practical or cost-effective.
 - iii. Discussed the range of prefabricated pumping dosing tanks, commonly ranging from 250 to 500 gallons. He also mentioned the need for tables referencing and highlighted the similarities between holding tanks and septic tanks, emphasizing that a two-compartment tank may not be necessary for a purely holding tank.
 - iv. Discussed how municipalities are now requiring maintenance schedules per code during site plan reviews and mentioned guidelines that could enforce regular cleaning to protect homeowners from expensive repairs in the long run.
 - v. Discussed the importance of designing septic tanks to withstand specific loads. Highlighted instances where using inappropriate tank types led to structural

failures and suggested that septic tanks should be designed with a focus on durability. May supported this view by sharing experiences of issues with crushed and collapsed tanks due to various activities around them.

- vi. Referenced IAPMO Z1000 section 5, specifically referencing ASTM C1613 as containing information about minimum design standards for concrete septic tanks.
- vii. Discussed different types of septic tanks, highlighting limitations associated with vertical cylindrical style and rectangular horizontal style tanks. Emphasized that cylindrical designs are easier to maintain due to their cleaning efficiency compared to other styles such as rectangular or vertical ones.
- viii. Discussed using larger tanks with ratios of three to one as a minimum requirement for homes with five bedrooms or more due to higher estimated daily flows. This was supported by considerations related to global implications and multifamily units' needs.
- ix. Discussed the working capacity of water quality units, emphasizing the need for different working capacities based on the type of unit and its application. He highlighted that while a 25% working capacity is suitable for septic, grease, and oil separators, larger capacities are required for handling thousands of gallons from parking lots.
- x. Stressed the importance of access risers over manholes in septic systems to facilitate maintenance. Emphasized the significance of access risers in septic systems as part of a watertight system to prevent groundwater infiltration. He mentioned that these access risers should be located near inlet pipes and outlet Ts for maintenance purposes. Furthermore, he explained that according to IAPMO Z1000 standard, safety tanks should have at least two access openings with minimum sizings recommended. Mentioned using 24-inch openings but noted that larger tanks may require additional access points based on specific code requirements.

12. New Business

- a. Specbuilder Balloting System – Mata informed the group that ICC will be adopting the balloting system and that a representative from Specbuilder will introduce the system at the next committee meeting.

13. Action Items

- a. Discuss trigger point for realigning working groups at next prep meeting – May/DeLand
- b. Submit drafts for Preface and Unimproved Facilities - Perry

14. Old Business

15. Next Meeting – April 9, 2024

- a. Working Groups: 1pm – 3pm Central (2pm – 4pm Eastern)
- b. Full Committee: 3pm – 5pm Central (4pm – 6pm Eastern)

16. Meeting Adjourned at 4:47pm CDT (5:47pm EDT)