



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

**Meeting 25 Minutes**

**April 8, 2025**

Meeting 25 of the ICC 825 Private Sewage Disposal Systems Standard Consensus Committee (IS-PSDS) was held on April 8, 2025, 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](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 3:10 CST (4:10pm 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 publicly accessible 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 – DeLand 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 type="checkbox"/>            | Bob Carpenter   | <input checked="" type="checkbox"/> | Derek DeLand |
| <input type="checkbox"/>            | Paula Kehoe       | <input checked="" type="checkbox"/> | Tunzyaan Griffin        | <input checked="" type="checkbox"/> | Ray Kennedy     |                                     |              |
| <input type="checkbox"/>            | Rashid Istambouli | <input type="checkbox"/>            | Albert (Bob) Rubin PhD  | <input checked="" type="checkbox"/> | Charlotte Peele |                                     |              |
| <input checked="" type="checkbox"/> | Bronwyn Humpries  |                                     |                         |                                     |                 |                                     |              |

3. Interested Parties and Guests
  - a. Interested Parties – Austin Perry, Kevin Kalakay
  - b. ICC Staff – None
4. Quorum and Membership Review –
  - a. Mata announced that quorum was achieved during portions of the meeting but some members joined late or had to leave the meeting early. Louise Weaver stood in for Bronwyn Humphries.
  - b. Mata reported that Markus Lenger's application for committee membership application is still pending and will be reviewed by the ICC Board at their April 26<sup>th</sup> Board meeting.
5. Review and Approval of April 8, 2025 Agenda – Table to next meeting due to lack of quorum when this item came up for a vote.
6. Review and Approval of March 4, 2025 Minutes– Table to next meeting due to lack of quorum when this item came up for a vote.
7. Project Outline – Mata noted that there has been no changes made to the outline since the previous meeting. No other comments were made.

8. Project Timeline – The project timeline was reviewed to assess the current progress. It was noted that the group was close to completing the conventional system and the mound system. The timeline suggested that with the definitions group's input, significant progress could be made by the end of May.
9. University of Miami Research – Perry presented updates to the preface of the document, emphasizing the background, context, and mission of the updated standards.
10. Working Group Updates –
  - a. Conventional Soil Absorption – Mata attended today's meeting and took the following notes:
    - i. The working group focused on determining soil absorption rates and estimating daily sewage flow for conventional soil absorption systems.
    - ii. Derek presented a hybrid table combining percolation rates and soil classification methods, which includes hydraulic loading rates based on soil texture, structure, and corresponding percolation rates.
    - iii. The importance of considering both soil texture and structure when determining loading rates was discussed, noting that many practitioners historically focused only on texture, but structure is crucial for proper system performance.
    - iv. Shawn presented two approaches to estimate daily sewage flow: the US EPA method based on bedrooms as a proxy for occupancy, and a WHO standard based on water supply type.
    - v. The limitations of the EPA approach were considered, particularly its use of outdated water usage data from the 1970s, and how to account for differences in household sizes and water usage patterns globally.
    - vi. The group leaned towards using the EPA method with updated data for areas with on-premise water supply while incorporating a reduced sizing option for areas where water must be carried in.
    - vii. Excavation depth requirements were agreed upon, specifying that systems must be excavated to the approved infiltrative layer based on the soil evaluation. The rationale for requiring a slight slope in distribution pipes was discussed, concluding that it helps ensure even distribution.
    - viii. Seepage pits were kept as an option with cautionary language about their limitations, despite not being preferred.
    - ix. A lack of universal standards for geotextile fabrics used as trench covers was noted, and the group will attempt to provide some basic criteria.
    - x. The working group also met on February 19, 2025. Initial draft is still expected to be completed by end of March 2025. May requested that a meeting be held prior to the next committee meeting to wrap it up.
  - b. Pressure Distribution –
    - i. The team discussed the integration of pressure distribution systems with mound systems and the need for schematics and examples to guide designers.
    - ii. Discussions centered around the mound systems, particularly in hazard areas prone to flooding.
    - iii. The group agreed on the need for schematics and examples to guide designers in implementing pressure mound systems.
  - c. Mounds Systems –
    - i. The group discussed the need for additional edits and homework assignments to ensure the mound systems' resilience.
    - ii. Ray Kennedy was mentioned as someone who would look into the experience and practice around Lake Michigan area for mound systems.

- d. Other OWTS –
  - i. The group discussed the challenges of defining and categorizing advanced treatment systems and water reuse systems.
  - ii. Weaver mentioned the lack of succinct guidance for alternative treatment systems in New Zealand and the need for collaboration with Austin and Esper to drive that part forward.
  - iii. Andiroglu suggested an exercise where the group would be given a challenge to come up with a system response and create a pathway in the 825 standard.
- 11. Review of Action Items –
  - a. Update preface – Perry – **Completed**
  - b. Schedule additional Conventional Soil Absorption working group meeting – May - **Completed**
- 12. New Action Items
  - a. Send materials on pressure distribution and pressure distribution integrated with mound systems to the committee for review. – **Kennedy**
  - b. Schedule meeting for the soil absorption group in around two weeks, avoiding Fridays to accommodate international participants. – **May**
  - c. Coordinate with Humphries to schedule a meeting with the OTWS working group members – **Weaver**
  - d. Follow up on Lenger committee application - **Mata**
- 13. New Business – None
- 14. Old Business - None
- 15. Next Meeting – May 6, 2025  
(Note: WG meetings to be held concurrently, 1pm – 3pm Central (2pm – 4pm Eastern))
  - a. **Pressure Distribution WG Meeting**
  - b. **Other Wastewater Treatment Systems WG Meeting**
  - c. Full Committee Meeting: 3pm – 5pm Central (4pm – 6pm Eastern)
- 16. Moved to Adjourn at 4:29pm CST (5:29pm EDT) Moved by DeLand, seconded by Kennedy. Motion carried.