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

Meeting #6 Minutes – September 12, 2023

The sixth meeting of the ICC 825 Private Sewage Disposal Systems Standard Consensus Committee (IS-PSDS) was held on September 12, 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 – Vice Chair, Derek DeLand, standing in place of Chair Shaun May convened the meeting and welcomed attendees at 2:05pm EDT along with Staff Secretariat, Ramiro Mata. Shaun May was delayed and joined the meeting at 2:15 EDT. Mata reminded attendees about 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.
2. Roll Call and Committee Introductions – Vice Chair, Derek DeLand called the meeting to order by taking a roll call of committee members – ☑ indicates present. ICC Staff Members present: Rich Anderson (ICC-PMG), Gary Gauthier (ICC-PMG), Tom Roberts.
3. Interested Parties – Austin Perry, Peter McLennan

Regulator		User		Manufacturer		SDO/Test Lab	
☑	Carlos Hernandez	☑	Esber Andiroglu PhD, PE	☑	Bob Carpenter	☑	Derek DeLand
☑	Shaun May	☑	Tunzyaan Griffin	☑	Jonathan Kaiser		
☑	Peter McLennan	☐	Philip Parisi Jr. PE	☐	Jeffrey Lexvold		
		☑	Albert (Bob) Rubin PhD	☑	Ray Kennedy		

4. Membership and Quorum – Mata indicated that with 10 members present, the threshold of 6 for quorum has been met.
5. Approval of meeting agenda – Moved to approve by Carpenter and seconded by Griffin. Motion was approved.
6. Approval of meeting minutes from July 11, 2023 – Moved to approve by Griffin and seconded by Andiroglu. Motion was approved.
7. Water Reuse Liaison Update (Anderson) – Anderson attended the September 8, 2023, meeting of the Water Reuse working group and reported that the Water Reuse Working Group:
    a. Reviewed the proposed changes to Chapter 13 of the IPC including the proposed LRV (Log Reduction Values) and the corresponding categories of source water
    b. Reviewed the definitions in the IPC and IRC related to Water Reuse

8. Definitions Working Group Update (DeLand) – Postponed the initial meeting until after overall ICC 825 project outline has been drafted to ensure definitions are given for terms to be used in the standard.
9. Research Update:
    a. Esber Andiroglu summarized the various types of OWTSs around the globe, which will inform the decisions when writing the ICC 825 standard. He emphasized that the University of Miami research team needs input from the committee regarding what OWTSs should be included in the standard.
    b. Austin James provided a recap of phase one of their research project which focused on consolidating definitions from different sectors and identifying onsite wastewater treatment systems' vulnerabilities and asked for feedback from committee members based on their classification system for different types of wastewater treatment components/systems. They hope to receive feedback that can help them create a holistic, dynamic standard that remains valid over time.
    c. In Phase Two, the team will be discussing geographical distribution and determining what minimum threshold needs to be exceeded population-wise or geographically for certain systems to be worth pursuing. This is important as there are many types of wastewater treatment systems available globally, and it's not feasible to research them all.
    d. The research team aims at identifying various model strategies and technologies that work well in specific situations so they can adapt them elsewhere if needed. They will also consider critical vulnerabilities such as mechanical breakdowns due to climate change impacts like heat/cold/evaporation effects on anaerobic/aerobic bacteria used for breaking down effluence/sludge.
    e. By year two's end (Phase Two), the team aims at integrating identified vulnerabilities into new standards by developing sub-standards through working groups' discussions based on geographical distribution data collected during this phase.
    f. Austin asked the technical committee about their priorities regarding pursuing novel and advanced technologies versus proven solutions. He emphasized narrowing down priorities based on specific communities' needs, such as those lacking sanitary conditions or those with improved sanitation but need to adopt water reuse and reclamation practices. He also suggested learning from others' experiences with constructed wetlands in different regions to develop standards.
    g. The committee discussed how cost-effective solutions may not always be the most sustainable option in terms of long-term economic burdens related to public health issues caused by poor sanitation practices. They emphasized considering minimum standards of sanitation while developing a standard that can help bring up underdeveloped communities without causing unsustainable economic hardship.
    h. The committee discussed the challenges of implementing highly advanced and expensive water systems in communities that lack the resources to maintain them. The sustainability of such systems is a challenge, and it may be better to focus on simpler solutions that are easier to maintain. The committee aims to establish a floor for global standards for water reuse, reclamation, and resiliency while considering community impacts.

i. Committee members stressed the importance of operation and maintenance in ensuring effective water system functionality over time. They noted that even well-designed advanced technology could fail without proper maintenance while emphasizing affordable solutions with sustainable upkeep as ideal options.
j. The committee agreed that the standard should be performance-based design rather than mandatory regulations. They aim to establish guidelines for treatment levels, costs, maintenance requirements as decision-making tools rather than construction or design tools.

10. Review of Action Items from August 8, 2023 meeting
    a. Create a Committee Folder for Action Items and Related Documents- Mata- Completed
    b. Review and provide feedback to Mata on University of Miami OWTS Presentation – Committee – Received feedback from Kaiser and Hernandez
    c. Review and provide feedback to Mata on University of Miami Definitions Presentation – Committee – Received feedback from Kaiser and Hernandez
    d. Review and provide feedback to Mata on sections of the IPSDC to be included or deleted in ICC 825– Committee- Received feedback from Kaiser and Hernandez
    e. Review and provided feedback to Mata on Project Plan – The committee elected to create a working group to draft an outline of the standard.
11. New Action Items
    a. Schedule initial meeting of Outline WG – Mata
    b. Review proposed standard outline and prepare draft by next committee meeting – Outline WG Chair
    c. Share tank data with committee - Kennedy
12. New Business
    a. Create Standard Outline Working Group – McLennan, Kennedy, Perry, DeLand, May. Chair to be elected at WG meeting.
13. Next meeting – October 3, 2023 at 1pm – 5pm CDT (2pm – 6pm EDT)
14. Meeting adjourned at 5:20pm EDT.