

Joint Committee on Plastics and RV Plumbing Components 2025 Annual Meeting Summary

July 16, 2025

NSF

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I. MEETING WELCOME

Kevin Kalakay welcomed the group to the meeting. Roll call was taken with 13 of the 14 voting members (93%) present, which represented a quorum. M. Milla read the antitrust statement.

Agenda

No additions or revisions were suggested for the 2025 meeting agenda.

Motion by Gary Runyan:	Accept the 2025 Joint Committee on Plastics and RV Plumbing Components meeting agenda as written
Second:	Amit Lathia
Discussion:	None
Vote:	All in favor
Motion:	Carries

2024 Meeting Summary

No additions or revisions were suggested for the 2024 meeting summary.

Motion by Chuck Bush:	Accept the 2024 Joint Committee on Plastics and RV Plumbing Components meeting summary as written
Second:	Rich Houle
Discussion:	None
Vote:	12 in favor, one abstention (Bob Powitz)
Motion:	Carries

JC Membership

M. Milla provided a membership update, saying the committee is in balance with 4 industry representatives, 2 public health/regulatory representatives, 4 user representatives, and 4 product certifier/testing lab representatives. She also said the **JC is actively seeking members in the public health/regulatory category** and asked for recommendations. The category encompasses anyone working for any of the following types of public agencies:

- Academic or educational institution
- Government or military (includes federal, county, state, and city governments)
- Model code organization
- Not-for-profit organization
- Professional public / environmental health / safety organization
- Public agency having regulatory authority for products
- Research institution

A [Joint Committee member application](#) is both linked here and included at the end of this meeting summary.

II. STANDARDS UPDATE

Monica Milla provided an update on a current ballot, 14i151r2 – Tables 9.13, 9.14 - Addition of CSA B182.2. The ballot addresses comments received in the r1 ballot and will be issued later this summer. She also covered new editions of standards, which included NSF/ANSI 14-2024 and NSF/ANSI 24-2024 (both published March 31, 2025) and NSF/ANSI 359-2024 (published May 30, 2025).¹

Monica also provided an overview of the standards development process including ways to be involved in standards development and revision as a joint committee voting member or participant, and the work of the joint committee and tasks groups. She also covered the balloting process and requirements for both the joint committee and the Public Health Council.

III. ISSUE PAPERS: NSF/ANSI 14

All issue papers submitted to the Joint Committee were reviewed.

[PLAS-2025-1: Table 9.27 Extrusion Quality Test Frequency](#)

Suzanne Scott presented the issue paper, which recommends revising the extrusion quality test frequency from 8h to start-up to align with the requirements in AWWA C909, CSA B137.3.1, and ASTM F1483. The change is recommended because it is not practical to sample unexpanded pipe every 8 hours due to the continuous production process of PVC pipe.

Motion by Gary Runyan:	Ballot language in issue paper to Joint Committee
Second:	Matt Gay
Discussion:	Chuck Bush asked about the history of the standards and whether studies were done to show that testing at startup is equivalent to periodic testing. Suzanne said the AWWA, CSA, and ASTM standards have always required start-up testing; only the NSF standard requires 8-hour intervals.
Vote:	All in favor
Motion:	Carries

[PLAS-2025-2: Table 9.31 C900 Flattening](#)

Mathew Murray presented the issue paper, which recommends revising the flattening test frequency for C900 pipe to reflect the requirement in AWWA C900. The change would be from 8 hr for all sizes to start-up on all sizes and every 8 hrs on sizes less than 14". Excessive testing of large diameter pipe generates waste and increases scrap rate while conducting a test that does not produce failures.

Motion by Suzanne Scott:	Ballot language in issue paper to Joint Committee
Second:	Gary Runyan/Chuck Bush
Discussion:	None
Vote:	All in favor
Motion:	Carries

¹ Edition year is determined by the date the first issued passed, which is not always the same as the date of publication.

PLAS-2025-3: Table 9.30b UL1285 Flattening

Mathew Murray presented the issue paper, which recommends revising the flattening test frequency for UL1285 pipe to reflect the requirement in UL 1285. The change would be from 8 hr for all sizes to start-up on all sizes and every 8 hrs on sizes less than 14". Sizes larger than 14" are tested every 100 pieces. Larger diameter pipes are produced at a slower rate. Excessive testing of large diameter pipe generates waste and increases scrap rate with few pipes produced between tests.

Motion by Rich Houle:	Ballot language in issue paper to Joint Committee
Second:	Matt Gay
Discussion:	None
Vote:	All in favor
Motion:	Carries

PLAS-2025-4: Normative References

Mark Mapili presented the issue paper to update publication years and titles for NSF/ANSI 14. Based on the NSF/ANSI 14 publication schedule, the ballot will be held until November to allow time to capture any other updates as close to publication as possible.

Motion by Matt Gay:	Ballot issue paper updates to Joint Committee in November
Second:	Amit Lathia
Discussion:	None
Vote:	All in favor
Motion:	Carries

PLAS-2025-5: Table 9.11a PE-Water, PE-Storm Sewer Test Frequency

Monica Milla presented the issue paper for Allison Crabtree who was not present. The issue paper recommends revising the diameter and wall thickness dimensional verification test frequency for PE water and sewer pipes to reflect the requirement in AWWA C906 Section 5.4.2. The change would be from 2 hours to once every hour or finished length of pipe, whichever is less frequent.

Doug Keller said that testing at a 2-hour frequency on large diameter pipes may not get to the end of a length of pipe, so it's not practical to take measurements on pipe that is still in the extrusion process. The issue paper is surfacing that on the larger diameters in C906, a 2-hour frequency is not possible.

Motion by Rich Houle:	Create task group to address other standard requirements and then ballot to Joint Committee
Second:	Chuck Bush/Gary Runyan
Discussion:	Rich Houle asked why the change is from 2 hours to once per hour or finished length of pipe, instead of after two hours. Barb Donaldson said that's the wording of the C906 standard. Industry members acknowledged the issue for large diameter pipes is largely universal. It was brought up that the proposed change also affects the other standards in Table 9.11a and it should be verified that all have the same once an hour requirement.
Vote:	All in favor
Motion:	Carries
Task Group Volunteers:	Allison Crabtree (Chair), Barb Donaldson, Amit Lathia, Jeff Littlefield, Mark Mapili, Mathew Murray
To join group, contact mmilla@nsf.org.	

IV. TASK GROUP CHAIR REPORTS

The task group chair reports submitted to the Joint Committee were presented.

Barrier Layer Piping (NSF/ANSI 14)

Mike Conrad provided an update, saying that the task group has been working on adjusting the permeation testing requirements for Celsius. There are provisions in a couple of standards to test at other temperatures, but there are no pass/fail criteria for these tests.

The task group plans to confirm that the barrier layer products do not inadvertently decrease the pressure-carrying capability of the PEX or PERT, which typically has its own listing.

The task group decided not to make these changes at NSF but to move them to the ASTM and CSA standards. Updates have been made to CSA B137.5, which will be published in 2026, and F2623, which has gone through balloting with one comment.

Transition Fittings (NSF/ANSI 359)

Mike Conrad provided an update, saying the task group is focused on how to address transition fittings that join two different systems with varying requirements. Tests applied to one system may result in a failure on the other side, not necessarily in the fitting but possibly in the connection to the fitting.

The task group is having a more philosophical discussion on how to address transition fittings from both performance and dimensional perspectives. This discussion originated around NSF/ANSI 359 and is now moving to NSF/ANSI 14.

Next steps involve reconvening task group meetings to further discuss and resolve these issues.

V. NEW BUSINESS

There was no new business.

VI. COMMITTEE ADMINISTRATIVE ITEMS

Monica Milla reviewed the motions and action items from the meeting.

The group scheduled the next meeting for July 15, 2026.

VII. ADJOURNMENT

Motion by Matt Gay:	Adjourn the 2025 Joint Committee Meeting
Second:	Gary Runyan
Discussion:	None
Vote:	All in favor
Motion:	Carries

VIII. ATTENDANCE

(As per meeting sign in sheets and MS Teams)

Joint Committee Voting Member Attendees

Name	Company	Interest Category
Kalakay, Kevin (Chair)	State of Michigan	Public Health/Regulatory
Bush, Charles	CN Bush & Associates	Industry
Donaldson, Barbara	Plastic Pipe and Fittings Association	Industry
Gay, Matthew	Consultant - User	User
Houle, Rich	IAPMO	Product Certifier/Test Lab
Lathia, Amit	CSA Group	User
Mapili, Mark	NSF	Product Certifier/Test Lab
Littlefield, Jeff	IPEX	Industry
Powitz, Bob	R.W. Powitz & Assoc., P.C.	Public Health/Regulatory
Reiheld, Lisa	ICC	Product Certifier/Test Lab
Runyan, Gary	Consultant - User	User
Scott, Suzanne	Westlake Pipe & Fittings	Industry
Stock, Rick	Uponor	Industry
Whittaker, Meg	ToxServices LLC	User

Joint Committee Voting Member Not in Attendance

Kempic, Jeff	U.S. EPA	Public Health/Regulatory
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Other Attendees

Name	Company
Adam Smith	Viega LLC
Alex Helms	Charlotte Pipe & Foundary
Andy Ethridge	Baystar
Amritpal Gill	REHAU
Angela Beach	NSF
Bill Blue	Mercury Plastics LLC
Carrie Mattingly	WL Plastics
Connie Chen	Hongyue Plastic Group Co., Ltd.
Cory Baker	Aurora Material Solutions
Dane Alexander	OnePlus Piping
Daniel Pierce	Reliance Worldwide Corporation
Doug Keller	LyondellBasell
Earl Christian	Mercury Plastics LLC
Elizabeth Kelley	NSF
Emily Richardson	NSF
Evan Knapp	Charlotte Pipe & Foundary
Evran Jawad	HeatLink Group Inc.
Forest Hampton	Lubrizol Advanced Materials
Gary Morgan	Borealis
Ibrahim Ozkan	K-Flex USA
Jack Roach	IPS Weld-On
Jason Huntington	Aurora Material Solutions
Jason Strait	Charlotte Pipe & Foundary
Jeremy Brown	NSF
Joanna Jardin	IPEX

Name	Company
Joseph Mirsadshanow	Lubrizol Advanced Materials
Karla Torruellas	Weld On Adhesives
Katie Elmore	Georg Fischer LLC
Kyle Ptak	Geon Performance Solutions
Lance MacNevin	Plastics Pipe Institute
Larry Gill	IPEX
Larry Schmidt	Diamond Plastics Corporation
Laura Schell	NSF
Lyndsey Olson	Uponor
Mathew Murray	JM Eagle
Mike Conrad	NSF
Monica Milla	NSF, Secretariat
Nancy Moore	NSF
Nasrin Kashefi	NSF
Nate Koppi	Uponor
Ned Dickey	Watts Water
Nick Mazzino	Oatey Co.
Noah Durso	JM Eagle
Paul Spirkowyc	Charlotte Pipe & Foundry
Phillip Schmidt	Georg Fischer LLC
Randy Christman	JB Products
Rich Wang	BIOBASE
Richard Martin	RAM Consulting Services
Ryan English	Charlotte Pipe & Foundry
Ryan Hyer	TEi-Listing Services
Saleem Shakir	Kaneka North America
Sarah Redwine	NSF
Savannah Wilson	REHAU
Steve Paolucci	INEOS Olefins and Polymers
Theresa Bellish	NSF
Theresa Weyer	Cresline Plastic Pipe Co., Inc.
Tim Haenftling	NSF
Todd Hogan	Dow Inc.
Trey Gaskins	Charlotte Pipe & Foundry Company
Veronica Hochrein	NSF
Will Fassler	Spears Manufacturing Company
Yunyan Li	Hongyue Plastic Group Co., Ltd.



NSF Joint Committee on Plastics and RV Plumbing Components

Membership Application and Agreement

Please complete this application and return to:

Kevin Kalakay, Chair
c/o Monica Milla, Secretariat & Standards Development Lead, NSF
T +1 734 214 6223
E mmilla@nsf.org

1. Contact Information

First Name	Middle Initial	Last Name
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Company / Organization	Division / Department
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Job Title

Address

City	State / Province
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Zip / Postal Code	Country
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Phone	Email Address
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2. Joint Committee Responsibilities

Your responsibilities and agreement as a Joint Committee or Task Group member shall include:

- active participation in and payment of travel expenses to attend Joint Committee and Task Group events
- reviewing and voting on new standards or proposed revisions to existing standards
- ensuring public health, safety, and environmental issues are properly addressed in the standard
- identifying research on issues affecting standards
- identifying new areas for standards development
- providing technical guidance to NSF International on related issues
- attending Joint Committee meetings once or twice annually, depending on need (1 to 2 days each)
- maintaining confidentiality of standards development materials and using such materials only for purposes of Joint Committee work and not for competitive or other purposes
- assigning all contributions to the standards and any standards development materials / documents (including drafts) to NSF International
- complying with all NSF International rules and policies as well as the NSF International Antitrust Guide
- volunteering to participate on Task Groups as needed.

Joint Committee members are requested to serve a minimum three-year term.

A member may be terminated if:

- their three-year term has been completed
- they have been inactive:
 - returning less than 75% of ballots; and/or
 - missing two consecutive meetings.
- they show a lack of participation as an issue proponent or TG Chair or TG member.

3. Interest Category

(Please mark the option that best describes your representation on the JC)

If you fall under more than one interest category, please select the interest category that you wish to represent on the committee.

Industry: A member who produces, assembles, distributes, or sells materials, products, systems, or services covered by the scope of the standard(s) under the purview of this committee.

- Distributor
- Industry trade association (or representative)
- Manufacturer of products
- Manufacturer processes

Product Certifier / Testing Lab: A member who provides certification. A member whose facility provides controlled conditions in which testing may be performed.



Public Health / Regulatory: A member who is from a public agency.

- Academic or educational institution
- Government or military
- Model code organization
- Not-for-profit organization
- Professional public / environmental health / safety organization
- Public agency having regulatory authority for products
- Research Institution

User: A member who purchases, uses, or specifies materials, products, systems, or services covered by the scope of the standard(s) under the purview of this committee. A member who represents an organization that provides for-profit services covered by the scope of the standard(s) under the purview of this committee.

- Auditor
- Consultant
- Consumer
- Standard developer
- Training provider
- User of products or systems
- User / consumer trade association (or representative)
- Water utility

4. Standards Experience

Years of experience in this field? _____

Other standards activities:

Please attach a brief biographical outline providing your education and work-related experience associated with the scope of the Joint Committee.

5. Copyright and Intellectual Property

Standards and related development materials / documents shall be owned exclusively by NSF International and will be copyrighted by NSF International as set forth in the U.S. Copyright Act. When an individual joins, volunteers for, or accepts appointment to a NSF International committee, the individual, as a condition of membership and participation, expressly acknowledges and agrees that copyrights and all rights in and to the standards and related development materials / documents (including drafts) shall be owned by NSF International, that NSF International will register the copyright in its own name, and you and your organization agree to assign all contributions of any kind to NSF International.

6. Joint Committee Membership

Membership on a Joint Committee is offered in accordance with NSF International's ANSI Approved Policies, including the requirement that the Committee represent a balance of interests.

If you are qualified for voting membership, but membership in your sector is currently unavailable for whatever reason, are you interested in being placed on a waiting list?



Yes, I would like my name placed on a waiting list

No, I prefer that my name not be included on a waiting list

7. Agreement for Joint Committee Membership

In consideration of my appointment as a member of an NSF International Joint Committee, I agree individually and on behalf of the organization I represent as follows:

- a. I acknowledge and agree to all of the foregoing, including but not limited to the responsibilities and terms outlined in Sections 2 and 5 of this application.
- b. In connection with my activities herein, I and the organization I represent shall: (a) follow and comply with all NSF International rules and policies; (b) follow and comply with the NSF International Code of Ethics, and agree not to encourage anyone else to violate the Code of Ethics; (c) be mindful of and take measures to comply with all U.S. and foreign antitrust and competition laws, including as necessary hiring and consulting with legal counsel to guide my actions; and (d) comply with the NSF International Antitrust Guide.
- c. I intend to make and will make contributions with other members of such Joint Committee and all such contributions will be merged into inseparable or interdependent parts of a unitary work or works. To facilitate the creation of such work or works, I acknowledge and agree that my contributions (and those of my organization or company) and any resulting work or works constitute and are to be considered works made for hire. To any extent that my contributions (and those of my organization or company) or the resulting work or works are not considered a work made for hire, I hereby assign to (and shall cause any others in my organization to assign to) NSF International all right, title and interest to all said contributions and all resulting works (including drafts). I understand and agree that I acquire no rights in the resulting work or works, whether published or unpublished. I attest that I have the authority and am empowered to grant the foregoing rights to NSF International. I agree to execute any documents necessary to effectuate the full and complete intent of this Section 7.c.
- d. I will not at any time during or subsequent to this agreement disclose or use in any way any confidential business information or knowledge or data I receive or develop while serving as an NSF Joint Committee member ("Confidential Business Information"), and I will not discuss any plans related to such Confidential Business Information, pricing or other information that may call into question any violation of the antitrust laws. Confidential Business Information may include, but is not limited to, draft standards and related standards development materials / documents, business plans, prospect lists, and trade secrets of NSF International or its clients. It is understood that Confidential Business Information may be disclosed to an accreditation body that is also under a nondisclosure agreement with NSF International. Such disclosure shall not occur without first informing the President of NSF International.
- e. I understand and agree that all Confidential Business Information, including all materials received or contributed to the Joint Committee, are to be used only for purposes of Joint Committee work and not for competitive or other purposes (either individually or by my organization). I agree to maintain Confidential Business Information in strict confidence, and not to disclosure to others (including others within my organization).
- f. NSF International agrees to inform Joint Committee members when a document is Confidential Business Information, either in a separate writing or by a legend on the face of such materials / documents. I agree that once the immediate activity related to the document is completed, the document will be returned to NSF International and will not be disclosed to others during the time the document is in my possession. If I will be unable to

maintain the document in a confidential manner, I agree to immediately return the document to the NSF International Joint Committee Secretariat.



- g. I (and my organization) do not now hold or have, and I do not intend to hold or to have, any patent, the use of which would be required for compliance with any material that I contribute to or author – either individually or with others – as a member of any NSF International Joint Committee or Task Group, or that I submit for use of the Joint Committee or Task Group in any NSF International standard, protocol, or guideline or any other NSF International document.
- h. I agree to take appropriate steps to ensure that any public statement, either oral or written, which are not official statement of NSF International, are properly qualified as the position or opinion of me or my organization and not NSF International or the Joint Committee or Task Group. I also agree to not make any statements that mislead or have the tendency to mislead.
- i. If I am removed as a Joint Committee member or my authorization to access Confidential Business Information is removed, I am still under obligation not to reveal Confidential Business Information previously received and to not in any way use (either personally or by your organization) such Confidential Business Information.
- j. The restrictions regarding Confidential Business Information in Sections 7.d through 7.g above shall apply for a period of five (5) years following receipt, except that as to trade secrets the restrictions shall apply until such time it is no longer a trade secret.
- k. I affirm that in my duties as a Joint Committee member, I shall represent only the interest category and role under which my membership was granted. If during the course of the performance of duties, I am unable to comply with this requirement, I shall abstain from active discussion and voting relative to the issue in question.
- l. This Agreement shall be governed by, and interpreted under Michigan law, without reference to its conflicts of law provisions. Any legal action relating to this Agreement and/or my participation as a Joint Committee or Task Group member shall be brought in the United States District Court for the Eastern District of Michigan if it has subject matter jurisdiction, and otherwise in the appropriate District Court or Circuit Court in the State of Michigan as provided in the venue statutes of the State of Michigan. The parties waive all questions of personal jurisdiction or venue for the purpose of carrying out this provision and agree not to invoke the jurisdiction of any other court.

I understand this application is a voluntary request to NSF International to review my qualifications for approval as a Joint Committee member.

I certify that all the information contained in this application is correct to the best of my knowledge and I understand that any false statement or misrepresentation on this application may result in the denial or revocation of any NSF International approval (in addition to any other remedy available to NSF International).

Intending to be legally bound, I agree individually and on behalf of the organization I represent to all of the foregoing.

Applicant's Signature

Date