TO: Joint Committee on Plastics and Recreational Vehicle Plumbing Components

FROM: Mr. Barry Pines, Vice Chairperson

DATE: May 13th, 2020

SUBJECT: Proposed revision to NSF/ANSI 14 Plastics piping system components and related materials (14i110r1)

Draft 1 of NSF/ANSI 14 issue 110 is being forwarded to the Joint Committee for balloting. Please review the changes proposed to this Standard and submit your ballot by June 3, 2020 via the NSF Online Workspace (http://standards.nsf.org).

Please review all ballot materials. When adding comments, please include the section number applicable your comment and add all comments under one comment number whenever possible. If additional space is needed, you may upload a word or .PDF version of your comments online via the browser function.

Purpose
This ballot will revise language regarding IV of resins in NSF/ANSI 14.

Background
NSF/ANSI 14, Section 5.3 currently specifies:

5.3 Requirements for PVC resins

Resins intended for use in PVC fitting compounds shall have an inherent viscosity of at least 0.65 when tested according to ASTM D1243. Resins intended for use in PVC pressure pipe compounds shall comply with the applicable requirements of PPI TR-3.

NOTE – PPI TR-3 currently limits the inherent viscosity of PVC pressure pipe resin to a minimum of 0.88.

This statement is incorrect and misleading:
There is no prior justification or standard restricting the IV of resins for use in PVC fitting compounds. There has been no technical justification identified anywhere for limiting the IV to 0.65. Too low of an IV (i.e., much lower than 0.65) for fitting resins will jeopardize the performance via either “cell class” requirements, (i.e., ASTM D1784) and/or the appropriate fitting standard (i.e., ASTM D2466, ASTM D2467, etc.). These mandatory standards by their respective performance requirements will limit the use of an exceptionally low IV resin. But, a fitting resin IV having a value somewhere below 0.65 and in turn that meets the requirements of the appropriate standards will perform adequately over time.

If you have any questions about the technical content of the ballot, you may contact me in care of:
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Joint Committee on Plastics and Recreational Vehicle Plumbing Components  
c/o Joint Committee Secretariat  
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5 Physical and performance requirements

5.1 General

Plastic piping system components and related materials shall comply with the physical and performance requirements of the applicable normative standard (as referenced in Section 2) and with the requirements of Sections 5.2 through 5.8.

5.3 Requirements for PVC resins

Resins intended for use in PVC fitting compounds shall have an inherent viscosity of at least 0.65 when tested according to ASTM D1243.\(^5\) Resins intended for use in PVC pressure pipe compounds shall comply with the applicable requirements of PPI TR-3.\(^9\)

NOTE — PPI TR-3 currently limits the inherent viscosity of PVC pressure pipe resin to a minimum of 0.88.