NSF International

MEMORANDUM

TO: Joint Committee on Drinking Water Additives – System Components

FROM: France Lemieux, Chairperson

DATE: July 10, 2014

SUBJECT: Proposed revision to NSF/ANSI 61 – *Drinking water system components- Health effects* (61i113r1)

Draft 1 of NSF/ANSI 61 issue 113, is being forwarded to the Joint Committee for balloting. Please review the changes proposed to these standards and **submit your ballot by July 31, 2014** via the NSF Online Workspace.

Purpose

Revise section 4.7.2 of NSF/ANSI 61 to exclude polypropylene (PP) fittings and unions from normalization as repeating fittings.

Background

At the 2013 DWA JC meeting, it was explained that section 4.7.2 of NSF/NSF 61 excludes PVC and CPVC transition fittings and repair couplings from normalization as repeating fittings because the materials do not repeat within the piping system. Transition unions are also considered as non-repeating, but the identical design CPVC x CPVC or PVC x PVC union is considered as repeating and can fail due to extraction of "unknown aromatic oxygen compounds" from the gasket. For this reason, the proposal was made to specify normalization factors for unions to be the same as for transition fittings or repair couplings. Separately, an issue paper was submitted with the recommendation that PP transition fittings also be excluded, as these products are identical to their current PVC counterparts. The JC unanimously voted in favor of sending the proposed revisions to ballot. Please see the original issue papers (DWA-61-2013-7 & DWA-61-2013-17) and the 2013 DWA-SC JC meeting summary excerpt under the referenced items for additional information.

Public Health Impact

This revision will have no negative impact on public health.

If you have any questions about the technical content of the ballot, you may contact me in care of:

Chairperson, Joint Committee
c/o Monica Leslie
Joint Committee Secretariat
NSF International
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[Note – the changes are seen below using strikeout for removal of old text and gray highlights to show the suggested text. ONLY the highlighted text is within the scope of this ballot.**]**

NSF/ANSI Standard
for Drinking Water System Components– Health Effects

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4 Pipes and related products

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4.7 Normalization of contaminant concentrations

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4.7.2 Products other than pipe

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4.7.2.2 Products other than fire sprinklers

The SA_F shall be calculated from the assumed length of pipe corresponding to the segment of the system in which the product is used (e.g., 100 ft of pipe in the service line or 280 ft of pipe in the residence). The $V_{F(static)}$ component of the N1 term shall be the volume of water contained within the assumed length of pipe. For fittings, the actual inner diameter of the pipe used with the fittings shall be used to calculate both SA_F and $V_{F(static)}$. PVC, ~~and~~ CPVC and PP transition fittings with copper alloy inserts (except for copper alloy inserts intended for use with PEX tubing), unions and repair couplings are specifically excluded from this evaluation.

For PVC, ~~and~~ CPVC and PP transition fittings with copper alloy inserts(except for copper alloy inserts intended for use with PEX tubing), unions and repair couplings, the SA_F shall be the wetted surface area of a single product. The $V_{F(static)}$ component of the N1 term shall be the volume of water a single product contains when filled to capacity, except that $V_{F(static)}$ shall equal 1 L (0.26 gal) for all products that contain less than 1 L (0.26 gal) of water when filled to capacity.

> NOTE – These products shall be evaluated in this manner because the materials (copper alloy or repair coupling material) will not repeat within the piping system. When a material does repeat within the system, it shall be evaulated as a pipe or fitting, as appropriate. PVC, ~~and~~ CPVC and PP transition fittings with a copper alloy insert intended for use with PEX tubing are excluded because the remainder of the PEX system may also be plumbed with copper alloy fittings. Thus, the copper alloy material would repeat throughout the PEX system.

Reason: Revised per 2013 DWA-SC JC discussion to exclude PP fittings and unions from normalization as repeat fittings.