MEMORANDUM

TO: Joint Committee on Recreational Water Facilities

FROM: Tom Vyles, Chairperson

DATE: December 9, 2014

SUBJECT: Proposed revision to NSF/ANSI 50 – Equipment for Swimming Pools, Spas, Hot Tubs and other Recreational Water Facilities – (50i91r2)

Enclosed for your review and ballot is the current draft of NSF 50, issue 91, revision 2. Please review the changes proposed to this standard and submit your ballot by December 23 2014 via the NSF online workspace (http://standards.nsf.org).

Please review all ballot materials. When adding comments, please identify the section number/name for your comment and add all comments under one comment number where possible. If you need additional space, please upload a word or pdf version of your comments online.

Purpose:

The purpose of this ballot is to incorporate updated language into Section 1.5 Normative References, 3.2 for Materials and Section 4.5 PVC Hose.

Revision 2 (r2) addresses the comments received from the revision 1 (r1) ballot. This two-week adjudication ballot also addresses the unresolved negative comments that were received on r1, see reference items for comments and responses.

Voting:

This ballot allows voters the opportunity to respond, change or reaffirm their vote based on the content of the comments contained herein.

Voting options:

1. Affirmative: you are voting to accept the ballot document as it stands after your consideration of the unresolved negative comments.
2. Negative: You are voting to reject the ballot document as it stands after your consideration of the unresolved negative comments. Voters who change an affirmative to a negative shall cite the unresolved negative comment that caused their decision.
3. Abstain: You do not feel that you have sufficient information to make an informed decision on this issue.

Please note that if you do not return a vote in this adjudication ballot, your original vote will remain in effect.
At the close of this adjudication ballot, all results will be tallied to determine if the requirements for consensus have been satisfied.

The IAPMO protocol for flexible PVC hose has been converted into an ANSI standard. IAPMPS-33 Flexible PVC Hose for Pools, Hot Tubs Spas and Jetted Bathtubs has been superseded by IAPMO/ANSI Z1033-2013. Materials specifications that were approved at the 2013 JC meeting are also included in this ballot.

**Public Health Impact:**

The proposed changes will have a positive impact on public health by updating the requirements for materials.

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

Tom Vyles Chairperson, Joint Committee on Recreational Water c/o Mindy Costello
Joint Committee Secretariat
NSF International
Tel: (734) 827-6819
E-mail mcostello@nsf.org
Note – New changes in this revision are shown with underline.

IAPMO/ANSI Z1033-2013e1. Flexible PVC Hoses and Tubing for Pools, Hot Tubs, Spas, and Jetted Bathtubs

3.2 Material formulation

Materials intended to be in contact with swimming pool or spa/hot tub water shall not impart undesirable levels of contaminants or color to the water, as determined in accordance with Annex A. The following items are exempt from the material review procedures described in Annex A:

- swimming pool and spa/hot tub components with a surface area less than 100 in² (650 cm²) in direct contact with water;
- swimming pool components with a mass less than 1.4 oz (40 g);
- spa/hot tub components with a mass less than 0.07 oz (2 g);
- components made entirely from materials acceptable for use as a direct or indirect food additive in accordance with 21 CFR 170-199 (Food and Drugs);
- class B cast iron;
- grades A36, A516GR70, A53GRB, A106, A105B16 carbon steel;
- glass (virgin, not recycled);
- series AISI 200, 300 and 400 stainless steel;
- titanium alloy grade 1 and 2;
- coatings and components made from materials acceptable for use in contact with potable water in accordance with NSF/ANSI 14 (potable water material requirements), NSF/ANSI 42, NSF/ANSI 51, or NSF/ANSI 61. In order to be qualified under NSF/ANSI 14, 42 or 61, the surface area to water volume ratio of the intended use conditions should meet the requirements of NSF/ANSI 61 when evaluated to the total allowable concentration (TAC) requirements of the standard; and
- treatment chemicals that conform to the requirements of NSF/ANSI 60.

Materials listed under the United States Code of Federal Regulations, Title 21 (Food and Drugs) Part 189 Substances prohibited for use in Human Food, shall not be permitted as ingredients within material contacting pool, spa, and/or hot tub water. This includes arsenic, beryllium, cadmium, mercury, or thallium. Lead should also not be used as an intentional ingredient in any water contact material except for products meeting the US Safe Drinking Water Act definition of lead free (≤ 0.25% weighted average lead content).

IAMPO, 5001 E. Philadelphia St. Ontario, CA 91761 <www.ipamo.org>
4.5 PVC Hose

Helix or fabric reinforced flexible PVC hose, for use on circulation piping in pools, hot tubs, spas, and jetted bathtub units, shall comply with the following:

- IAPMO PS-33 IAPMO/ANSI Z1033;
- the material requirements of 3; and
- Annex B, section B.1.5 after a 20,000 cycle strength test conducted in accordance with Annex B, section B.1.4.