Purpose
This straw ballot will revise the scope for chemical evaluation.

Background
NSF has received requests to evaluate deck cleaners against the Annex R requirements for pool chemicals. These recreational water treatment chemicals should be excluded from the requirements of this standard because there is no appropriate framework for evaluating them. The Annex R assessment evaluates health effects from long- and short-term exposures to chemicals present in dilute concentrations in the pool or spa water. Deck cleaners and other surface cleaners/disinfectants are concentrated chemical solutions that are intended to be washed to waste. The concentrated nature of these applications demand a different hazard assessment; for example skin contact burns.

This issue paper was presented at the 2019 Recreational Water Facilities Joint Committee meeting, and ultimately was sent to the RWF Task Group on Pool Chemical Evaluation for language development. That group met twice to discuss the issue paper, and modified the suggested language based on conversations during its two teleconferences. The draft language is now being sent to straw ballot with the Task Group.

This straw ballot will last two weeks.

The grey highlighted portions of the language are proposed additions to the language of the standard.

The strikeout portions of the language are proposed deletions to the language of the standard.

An affirmative (yes) vote on this straw ballot means you agree with the revised language as submitted.

A negative (no) vote on this straw ballot means you disagree with the revised language as submitted. A negative vote must include an explanation of why you disagree with the revised draft.
NSF/ANSI Standard

Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

3. Swimming pool water contact materials and swimming pool treatment chemicals

3.1 Swimming pool water contact materials

Materials shall not sustain permanent damage or deformation when subject to repeated handling associated with the routine operation and maintenance of the equipment.

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 N-1. The following items are exempt from the material review procedures described in Annex N-1:

- 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 170-1994 (Food and Drugs);
- glass (virgin, not recycled);
- series AISI 300 stainless steel;
- titanium alloy grade 1 and 2; and
- 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/CAN 61. In order to be qualified under NSF/ANSI 14, NSF/ANSI 42, or NSF/ANSI/CAN 61,
the surface area to water volume ratio of the intended use conditions shall meet the requirements of NSF/ANSI/CAN 61 when evaluated to the total allowable concentration (TAC) requirements of the Standard.

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, or hot tub water. This includes arsenic, beryllium, cadmium, mercury, or thallium. Lead shall also not be used as an international 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).

### 3.2 Swimming pool treatment chemicals

Swimming pool treatment chemicals requiring a health effects evaluation includes those directly added to the waters of pools and spas. These treatment chemicals shall be evaluated in accordance with the requirements of Annex N-12 and shall not impart undesirable levels of either chemical constituents or contaminants to the water.

Swimming pool treatment chemicals constituents evaluated under this Standard shall be include:

- the swimming pool treatment chemical constituents;
- the product-specific contaminants identified in the formulation review or by testing; and
- other constituents as identified in the formulation review or by testing.

Excluded from health effects evaluations are any chemicals not intended to be added directly to the water. Examples include but are not limited to deck cleaning chemicals and filter cleaning chemicals that are flushed to waste.

NOTE — The excluded treatment chemicals are not diluted in the recreational water, thus a health effects assessment must consider user exposure to the concentrated chemical under different circumstances. This exposure is best evaluated using a different hazard assessment than the framework outlined in Annex N-12.