NSF International

MEMORANDUM

TO: Joint Committee on Drinking Water Additives – System Components

FROM: France Lemieux, Chairperson of the Joint Committee

DATE: October 28, 2019

SUBJECT: Proposed revision to NSF/ANSI/CAN 61 – *Drinking Water System Components – Health Effects* (61i152r1)

Revision 1 of NSF/ANSI/CAN 61 issue 152 is being forwarded to the Joint Committee for consideration. Please review the proposal and **submit your ballot by November 18, 2019** via the NSF Online Workspace <www.standards.nsf.org>.

Purpose

The proposed revision would add an optional, more stringent requirement for lead release for section 9 devices in an annex to the standard.

Background

At the 2018 JC meeting, the committee supported the development of an optional, more stringent requirement under NSF/ANSI/CAN 61 for lead release for sensitive populations. A task group was formed to consider the following approaches: a lower Q value, an additional requirement for the average lead release of test samples Day 3, or both, and develop proposed criteria for the option they decided to pursue. As previously reported, the task group was unable to reach a consensus on the proposed options under their charge, and the chairs forwarded a proposal that included both options for the JC to consider, along with comments from the task group (both for and against the proposal).

A straw ballot was submitted to the JC in July 2019 to determine which, if any, of the options the JC supported. The straw ballot resulted in the JC voting in favor of moving forward with a formal ballot that includes both evaluation criteria (lower Q value and Day 3 requirement). Several comments were also received suggesting that a note be included to address a transition/phase-in period and that the JC move from that of an optional requirement to a new mandatory requirement to replace the current Q value of 5 µg after a period of three years.

Please see the JC meeting summary excerpts (November 29, 2018 and July 8, 2019) and the summary of the JC straw ballot results and comments under the referenced items for additional information.

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

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[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by gray highlighting. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI/CAN Standard for Drinking Water Additives –

Drinking Water System Components – Health Effects

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Normative Annex 3
(normative)

Option for evaluation of lead to a more stringent extraction requirement[1]

N-3.1 General

The following are optional evaluation criteria available for endpoint devices to demonstrate compliance with a lower lead leaching criteria. Compliance of products to this Section shall be noted in the certification listing.

Products shall also comply with the full requirements of NSF/ANSI/CAN 61 in order to be deemed compliant to this Section.

N-3.2 Evaluation requirements

Endpoint devices being evaluated to the option lead extraction requirements of this Section shall comply with the both N-3.2.1 and N-3.2.2.

N-3.2.1

For endpoint devices other than supply stops, flexible plumbing connectors, and miscellaneous components, the test statistics Q or R calculated in accordance with N-1.8.9 shall not exceed 1 µg. For supply stops, flexible plumbing connectors, and miscellaneous components, the lead test statistic Q shall not exceed 0.5 µg.

N-3.2.2

The arithmetic average lead dosage (lead released) measured on Day 3 shall not exceed 3 µg. The individual lead dosage values shall be calculated as follows:

[1] It is the intent of the Joint Committee to specify this lower Q value and Day 3 requirement for all endpoint devices under section 9 after January 2023, a period of three years from the adoption of these optional evaluation requirements.

$$\text{Lead released (µg)} = \text{Normalized Result (µg/L)} \times \text{Volume released into (L)} \times \frac{\text{SAL (in2)}}{\text{SAF (in2)}}$$

Where:
– Normalized result calculated per N-1.8.8.1
– Volume released into = VF(static) value used during normalization

Rationale: Optional lead requirement that includes lower Q value and Day 3 requirement added per DWA-SC JC straw ballot results (August 5th, 2019). A note also added to indicate the intention to make the more stringent evaluation criteria mandatory after a period of three years per recommendations received during JC straw ballot (see comments under referenced items).