TO: Joint Committee on Drinking Water Additives – System Components
FROM: France Lemieux, Chairperson of the Joint Committee
DATE: March 12, 2020
SUBJECT: Proposed revision to NSF/ANSI/CAN 61 – Drinking Water System Components – Health Effects (61i154r1)

Revision 1 of NSF/ANSI/CAN 61 issue 154 is being forwarded to the Joint Committee for consideration. Please review the proposal and submit your ballot by April 2, 2020 via the NSF Online Workspace <www.standards.nsf.org>.

**Purpose**

This revision corrects an error found under the product/material evaluation procedures under N-1.8.9.2.

**Background**

It was recently discovered that instructions for calculating normalization for endpoint devices, components, and materials under N-1.8.9.2 had been inadvertently removed in a previous edition of the standard (61-2003).

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

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NSF/ANSI/CAN Standard for Drinking Water Additives –

Drinking Water System Components – Health Effects

Normative Annex 1
(formerly Annex B)

Product / material evaluation

N-1.8.9.2 Calculations

The test statistic depends upon the log-dosage mean and standard deviation. These values are derived as follows. Calculate the natural log-transformed value $Y_{ij} = \ln(X_{ij})$ of the original data values. For each of the products tested, calculate the product dosage $D_i$ across the nine measured days, where:

$$D_i = e^{Y_i}$$

and

$$Y_i = \frac{(Y_{i3} + Y_{i4} + Y_{i5} + Y_{i10} + Y_{i11} + Y_{i12} + Y_{i17} + Y_{i18} + Y_{i19})}{9}$$

Calculate the log-dosage mean of $Y_i$ and the log-dosage standard deviation of $Y_i$ for each product, where:

$$\text{log-dosage mean} = \frac{\sum_{i=1}^{n} Y_i}{n}$$

and

$$\text{log-dosage standard deviation} = \sqrt{\frac{\sum_{i=1}^{n} (Y_i - \bar{Y})^2}{n-1}}$$

Rationale: Readded instructions to first calculate the natural log-transformed value for each test result. It was recently discovered that this had been inadvertently removed in a previous edition of the standard (61-2003).