



**Summary of Substantive Changes
between the 2013 and the 2012 editions of
NSF/ANSI 61, “Drinking Water System Components — Health Effects”**

Presented to the IAPMO Standards Review Committee on March 10, 2014

General: General: The changes to this standard might have an impact on currently listed products. The substantive changes are:

- Clarified significant figures and rounding errors (see Sections 1.6 and Annex A)
- Clarified compliance with low lead requirements specified by the U.S. Safe Drinking Water Act (see Section 3.5)
- Added exemption for evaluation of fire hydrants (see Section 8.7.1)
- Specified requirements for normalization of water main valves and fire hydrants (see Annex B.8.6.1)

Section 1.6, Significant figures and rounding: Clarified the rounding procedures as follows:

For determining conformance with the specifications in this standard, the Absolute Method in ASTM E29 Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications shall be used. [When rounding data, the Rounding Procedure in section 6.4 of ASTM E29 shall be used.](#)

Section 3.5, Restriction on use of lead containing materials Clarified compliance with the low lead requirements of the U.S. Safe Drinking Water Act as follows:

There shall be no lead added as an intentional ingredient in any product, component, or material submitted for evaluation to this standard, with the following exceptions:

- *Brass or bronze used in products meeting the definition of “lead free” under the specific provisions of the Safe Drinking Water Act of the United States.*
- *[Solders and flux meeting the definition of “lead free” under the specific provisions of the Safe Drinking Water Act of the United States.](#)*
- *[Brass or bronze used in products specifically identified as exemptions within section \(a\)\(4\)\(B\) of the Safe Drinking Water Act of the United States.](#)*

Section 8.7, Other mechanical devices, components, and materials: Added the exemption for fire hydrants to only include materials in contact with water when the valves are closed for the evaluation as follows:

8.7.1 Fire hydrants

[The evaluation and normalization of fire hydrants shall be based off of the products wetted surfaces while not in use for fire related uses and maintenance. For both wet barrel designs and base valve designs \(dry barrel\), the evaluation should only include those materials in contact with water when valve\(s\) are closed.](#)



Annex A, Toxicology review and evaluation procedures: Clarified rounding and significant figures used in the evaluation procedures.

Annex B.8.6, Normalization for other products: Specified requirements for normalization of water main valves and fire hydrants as follows.

B.8.6.1 Water main valves and fire hydrants

Water main valves and fire hydrants connected to water main ≥ 4 " shall be normalized with the assumption of twenty products per mile of pipe. An example normalization calculation is provided in Table B11 for water main valves.