MEMORANDUM

TO: Joint Committee on Drinking Water Treatment Units
FROM: T. Duncan Ellison, Chairperson
DATE: March 5, 2015

SUBJECT: Proposed revision to NSF/ANSI 330 – Glossary of Drinking Water Treatment Unit Terminology (330i7r3)

Draft 3 of NSF/ANSI 330 issue 7 is being forwarded on behalf of Frank Brigano to the Joint Committee for balloting. Please review the changes proposed to these standards and submit your ballot by March 19, 2015 via the NSF Online Workspace.

Revision 3 incorporates suggestions to add definitions for Limit of Quantification (LOQ) and the EPA’s definition on Lifetime Health Advisory. The definition of Public Health Goal has also been revised to clarify that it is not a regulatory value. Please note that if you do not return a vote for this revised ballot, your last recorded vote from the previous draft revision will remain in effect.

Purpose

The purpose of this ballot is to propose additional definitions for limit of detection (LOD) and public health goal (PHG) to be included in NSF/ANSI 330.

Background

When reviewing NSF/ANSI 330, Mr. Brigano noted two definitions that are not currently included in the glossary but that he believes are essential to the DWTU industry.

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

Chairperson, Joint Committee
c/o Monica Leslie
Joint Committee Secretariat
NSF International
Tel: (734) 827-5643
E-mail mleslie@nsf.org
3 Definitions

3.xx Lifetime Health Advisory (LHA): The concentration of a chemical in drinking water that is not expected to cause any adverse noncarcinogenic effects for a lifetime of exposure, incorporating a drinking water Relative Source Contribution (RSC) factor of contaminant-specific data or a default of 20% of total exposure from all sources. The Lifetime Health Advisory is based on exposure of a 70-kg adult consuming 2 liters of water per day. For Lifetime Health Advisories developed for drinking water contaminants before the Lifetime Health Advisory policy change to develop Lifetime Health Advisories for all drinking water contaminants regardless of carcinogenicity status in this Drinking Water Standards and Health Advisories (DWSHA) update, the Lifetime Health Advisory for Group C carcinogens (possible human carcinogen), as indicated by the 1986 Cancer Guidelines, includes an uncertainty adjustment factor of 10 for possible carcinogenicity.

Reason: Added EPA's definition of LHA per comment received from R. Odette on 330i7r2 ballot.

3.xx Limit of Detection (LOD): The lowest quantity of a substance able to be distinguished from the absence of that substance (a blank value), within a stated confidence limit (generally 1%), but not necessarily quantified, under the conditions of the test method.

3.xx Limit of Quantification (LOQ): The lowest concentration at which the analyte is not only reliably detected but at which some predefined goals for bias and imprecision are met. The Limit of Quantification may be equivalent to the Limit of Detection or it could be at a much higher concentration.

Reason: Added per comment received from K. Sauerbier on 330i7r2 ballot to distinguish the difference between LOD and LOQ.

3.xx Public Health Goal (PHG): A level of drinking water contaminant at which adverse health effects are not expected to occur from a lifetime of exposure. PHGs are not regulatory standards.

Reason: Added statement per comment received from E. Leung to clarify that PHGs are not regulatory values.

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1 As defined by the U.S. Environmental Protection Agency (USEPA), 822-S-12-001, 2012 Edition of the Drinking Water Standards and Health Advisories, Office of Water, 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460 <www.epa.gov>