Thursday, December 1, 2016

I Opening Remarks

Joint Committee (JC) Chairperson France Lemieux called the meeting to order and welcomed everyone. M. Leslie read the antitrust statement and took attendance of those members calling in by phone. F. Lemieux announced that the following members retired for the committee in 2016: Wendy Sheeran (Ohio EPA), John Helmeset (NY Dept. of Health), and Ed Ohanian (USEPA). She noted that Dr. Ohanian will continue to participate on the CPHC Technical Committee for Drinking Water Additives, however. P. Greiner has also announced that he will be retiring from the committee at the end of the year. K. Foster will be submitting an application for NSF. The following new members were selected to serve on the committee this year: Jim Springer (Greater Cincinnati Water Works) and Mike Schock (USEPA). F. Lemieux announced that there are currently two membership openings for industry representatives and two openings for public health/ regulatory members. Please submit applications and resumes to M. Leslie for consideration. All applications will be reviewed after the first of the year.

II Review of Agenda

Motion: The December 2016 proposed agenda is acceptable D. Heumann motioned to accept the agenda; D. Denny seconded.

Vote: All in favor.

Motion passed.

III Review of Meeting Summary

Motion: Accept the 2015 Joint Committee on Drinking Water Additives- System Components (DWA-SC JC) meeting summary. F. Lemieux noted that any minor editorial corrections should be submitted to M. Leslie. P. Greiner moved to accept the meeting summary and R. Sakaji seconded the motion.

Vote: All were in favor.

Motion passed.

IV Review of Recent and Current Ballots/ Standards Administration

M. Leslie reviewed the revisions that were recently published in the 2016 edition of NSF/ANSI 61. She noted that Issue 133, which updated several pass/fail values under Annex D, were approved but not in time to be included in the 2016 publication. Because the issued passed this year, however, ANSI requires the publication of an addendum. There are two ballot issues that are currently open for balloting and/or have issues that
Section 4 – Pipes and Related Products

Test assembly volumes and exposure controls (DWA-61-2016-2)

Motion: Ballot revised language with clarification on acceptable marginal volume. P. Greiner motioned; D. Heumann seconded.

Discussion: P. Greiner reported that some products with volumes greater than 1 liter and needing a test assembly can exceed the required Vf (static) volume under section 4 of NSF/ANSI 61. He proposed adding language to allow for marginally more than the volume that the device holds. Separately, he proposed to revise language under Annex B to replace current sections still using the terms “method blanks” and “method standards” with the term “control samples.”

D. Heumann suggested that the addition of an upper limit on the volume would be helpful. A footnote could be included to specify a certain volume percentage that should not be exceeded. P. Greiner agreed that he could work with the labs to include a percentage or to add a footnote to better define what “marginal” means.

Vote: 27 in favor; 1 abstention (J. Ballanco)

Motion passed.

Section 5 – Barrier Materials

A. Tank roofs and covers (DWA-61-2016-1)

Motion: Ballot proposed language with the modification of revising new proposed language under 5.7.1.1 as an informative note. D. Heumann motioned; M. Morrison seconded.

Discussion: K. Foster explained that additional clarification is needed under section 5 that interior surfaces on tank covers are considered a wetted surface. J. Ballanco expressed concern that the proposed language is actually commentary instead of a requirement in the standard. It would be better listed as an informational note. K. Frakes noted that Table 5.6 does indicate that tank covers are included. K. Foster agreed but stated that NSF still receives inquiries to clarify this. She agreed to incorporate her suggested language under 5.7.1.1 as a note.

Vote: All in favor.

Motion passed.

B. Concrete aggregate (DWA-61-2016-4)

Motion: Ballot revised language as written with minor modification noted below. R. Sakaji motioned; D. Heumann seconded.

Discussion: P. Greiner provided background information on the currently open ballot on concrete. An issue paper was submitted for a simpler evaluation of concrete aggregate when being tested on its own rather than the need for testing in the form of concrete
cylinders. The ballot received a number of negative comments, including a request to clarify that concrete aggregate testing is optional, the establishment of surface area to volume ratio for concrete, and the addition of criteria identifying when the testing of concrete isn’t required under NSF/ANSI 61. The task group has addressed these comments and will be submitting a revised proposal for ballot. The criteria established was based on analysis of extraction results over a 5-year period on cement and concrete testing.

D. Reid suggested that the term “gallonage” in the proposed language be replaced with “volume.” It was clarified that although concrete storage tanks are the most common uses, this revision addresses all uses of concrete. It was suggested that instead referring to “water storage tank,” a more general term be used. P. Greiner agreed to revise the proposed language to “water containing structure” or something similar. R. Sakaji stated that he was in favor of the proposal in general, but questioned how it would be communicated to state regulators if one has tanks that meet these requirements and don’t need to test them. P. Greiner clarified that only by products that are submitted for certification are bound by these requirements. It is intended to create a regulatory requirement. A contractor could appeal to a state agency that it is using a NSF/ANSI 61 compliant aggregate mixture, however.

**Vote:** All in favor.

**Motion passed.**

**VIII  Informational/Task Group Updates**

**A. Annex A**

**Discussion:** K. Cox and K. Licko provided a history on the Health Advisory Board (HAB) and its role in developing risk assessment guidelines under the current Annex A in NSF/ANSI 60 and 61. Risk assessments performed to the requirements of Annex A undergo external peer review by toxicology experts from the regulatory agencies, academia, and industry through members of the Joint Peer Review Steering Committee (JPRC) and the HAB. It was explained that no major updates have been made to Annex A since 1999. Over the last year, however, these groups have worked to address nine priority issues. With regards to the process and water intake, Annex A currently uses the following historical EPA assumptions for adults: a body weight of 70 kg and a drinking water intake (DWI) of 2 liters per day, which combined equates to an ingestion rate of 0.028 L/kg-day. In 2011, however, the EPA Exposures Handbook considered new data and revised its recommendations to a L/kg-day intake rate instead of separating body weight and DWI. The new default will be the 90th percentile of all ages, which equates to an ingestion rate of 0.033 L/kg-day. This and the other proposed revisions approved by the HAB will be submitted to the JC for ballot in the first half of 2017.

J. Ballanco asked for clarification on how the EPA’s ingestion rate value increased to 0.033. K. Licko explained that the data changed for the human population weight and intake for all ages. The prior number was based on adults only. It was clarified that the current pass/fail values in the standard will not change. This revision will apply to new risk assessments going forward. F. Lemieux raised the question of why the STEL for the bottle-fed infant was an issue with the HAB. K. Cox explained that this demographic has the highest weight-to-intake ratio. There are other proposed methods in calculating this and describing that language was not defined as well (e.g., such as when to move from an infant to another category.) The committee still needs to work on the language to better define that.
B. Extraction water task group update

**Discussion:** P. Greiner reported that the task group held a meeting yesterday. They will continue to review the current exposure waters and the change to the section 9 water for next year. The informational annex on the water qualities is currently out for ballot with the JC now. Several comments have been received, including one negative vote, but the comments are mainly editorial in nature and not substantive disagreements. The Copper Task Group will address those comments. P. Greiner reported that this group is also looking to add a tolerance of ± 0.3 for pH under NSF/ANSI 61. A couple of additional recommendations were made during the discussion yesterday. It was suggested that the addition of small amounts of acid and base be allowed to adjust the pH. It was also recommended that tolerances be added for chemical additions under Annex B. The proposed revisions will be submitted as a ballot next year. Finally, the task group reviewed the following paper from Journal AWWA: *Quantifying Lead-Leaching Potential From Plumbing Exposed to Aggressive Waters*. The study found higher leachate rates for lead from private water supplies, as some of these waters can have very low pH levels. The pros and cons from the paper were discussed. The task group will continue to monitor this work, but no action items related to that paper have been identified at this time.

C. Copper tubing task group update

**Discussion:** P. Greiner noted that the water qualities annex has been developed under this task group in response to M. Schock’s issue paper in 2013 (DWA-61-2013-9). Currently the standard simply has a limited use statement related to copper of pH 6.5 or above unless the water is properly treatment. There is not a robust statement of conditions where one needs to consider whether use of specific materials is appropriate or not. P. Greiner reported that the use limitations statement that is currently under section 4.5.3.2 for copper and copper alloys still needs to be addressed by this task group. Proposed revisions to this will be submitted as a separate ballot in 2017.

D. Water quality annex task group (DWA-61-2016-3)

**Motion:** Form a task group to address additional materials in the water qualities annex. M. Schock motioned; D. Heumann seconded.

**Discussion:** F. Lemieux stated the current task group on water extraction chemistries is charged with reviewing the test waters currently in the standard. She proposed that a separate task group be formed for the ongoing work of the water qualities annex. This group will look at use limitations for other generic material types in the future (e.g., plastic and other metals). It would be limited to piping materials. It was suggested that a primary task group be established first to lay out the framework and criteria that should be reviewed, and then subtask groups be formed to use this criteria to address specific material types.

**Vote:** All in favor.

**Motion passed.**

**TG:** F. Lemieux (chair); M. Schock; D. Heumann; K. Foster; R. Sakaji; T. Palkon; A. Olah; D. Frederick; J. Weise; D. Reid; T. Spoden; E. Nieminski; P. Greiner (observer)

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**VIII New Business/Administrative Issues**
2017 Meeting Dates

M. Leslie proposed the next annual meeting date of Thursday, November 30, 2017. R. Sakaji motioned and J. Weise seconded to adjourn the meeting. The meeting was adjourned.
Meeting Participants

Joint Committee Members
Chairperson, France Lemieux (Health Canada)
Julius Ballanco (J.B. Engineering)
Brian Bernados (California Waterboards Division of Drinking Water) – via phone
Richard Carrier (Health Canada)
Dean Denny (Lavelle Industries)
Kyle Frakes (Tnemec)
Franco DiFolco (CSA) – via phone
Jeff Franks (Technical Engineering Solutions, LLC) – via phone
Douglas Frederick (UL, Inc.)
Pete Greiner (NSF International)
David Heumann (LA Dept. of Water and Power)
Andrew Kireta (Copper Development Assn.) – via phone
George Lai (Ontario Ministry of the Environment)
Richard Lorenz (City of Westerville)
Bruce Manning (CH2M HILL) – via phone
Clifford McIn (Moorhead Public Service) – via phone

Proxies
Mary Armbruster (Uponer)

Joint Committee Members not in attendance
Nate Buzard (Viega LLC)
Oleh Dzydzora (United Water Suez)
Jacob John (Uponor)
Jeff Kempic (USEPA, Office of Groundwater and Drinking Water)
Craig Selover

Observers
Mark Anderson (Ford Meter Box)
Jeff Baldwin
Dan Borkowski (Chase Brass)
Joshua Carey (Viega LLC)
Siying Chen (Masco)
Kevin Chew (Truesdail)
George DeJarlais (Badger Meter)
J.P. Fay (Viega)
Amanda Fisher (UL)
Ralph Franco (Calgon Cargon)
Chris Haldiman (Watts)
Brook Hatton (CSA)
Chad Harbour (Mueller) – via phone
Brad Johnson (Neptune TG)
Kristin Licko (WQA)
Steph Magnan (Sherwin Williams)

NSF International Staff
Sarah Beatty
Theresa Bellish
Kevin Cox
Derek Deland
Katie Foster
Pete Greiner
Nasrin Kashefi
Monica Leslie
Mark Mapoli
David Nance
Dave Purkiss
Scott Randall
Jason Snider
Suzan Somo

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