Task Group on NSF 385

Teleconference Meeting Summary DRAFT

April 19, 2021

Participating members:

Bio-Microbics, Inc.	Bell, Jim
Anua	Bishop, Colin
LBC Manufacturing	Braden, Mike
Salcor Inc.	Cruver, Jim
Pro Flo Aerobic Systems	Jumper, David
Norweco, Inc.	Meyer, Jim
Florida Department of Health	Roeder, Eberhard
SeptiTech, Inc.	Sherman, Kevin

Participating observers:

NSF International	Hennig, Brad
NSF International	Nejad, Eliza
NSF International	Stark, Blake
NSF International	Steiner, Sharon
NSF International	Williams, Steve
NSF International	Snider, Jason

Discussion

J. Bell welcomed everyone and called the meeting to order. J. Snider took roll and read the anti-trust statement. Eight of the 12 voting members were present (67%) which did represent a quorum.

Motion by K. Sherman	Accept the WWT TG on NSF 385 Meeting summary 2-22-21
Second:	J. Cruver
Discussion:	None
Vote:	All in favor
Motion:	Carries

Next the group discussed the UVT range in Table 1.1 namely the change to the UV Transmittance from 50 -75% to 40-55%, and the possibility of including a lower transmittance as either a stress test or an optional informative annex. The group agreed that the lower transmittance test would be best approached as an optional test. J. Meyer noted that with a lower transmittance test, lower fecal ranges would need to be considered. The Task Group decided that this will be included in an informational annex that would explain how Peat systems do have lower UV Transmittance and also lower levels of fecal coliform. This would allow for technologies to add on to their NSF 385 testing to demonstrate that their technology could be used after Peat systems for disinfection. Colin Bishop volunteered to develop a draft for the Task Group to consider during the next TG meeting.

The group next resumed the photorepair discussion. J. Cruver and provided a review of the Water disinfection by UV irradiation testing, and offered to draft language modeled on this testing.

The next agenda item was the discussion of the Ozone portion of the WWT-2019-8 – 385 revisions issue paper. J. Bell explained that he had reviewed differences between the testing in Standard 46 and 385, and created a markup of Standard 46 to highlight differences. The first section reviewed was 12.5 – Design and Construction. J. Bell noted that portions of the language in 46 was not included in 385. The group agreed to not transfer the language over, agreeing that a 6-month test would inherently show any degradation. The next portion of 46 reviewed was 12.7.4 – End of UV lamp life disinfection test. The group agreed to not include this language in 385, as the suggested test was not practical as written, and was likely unnecessary for a 6-month test. The group next discussed 13.3.3 – flow design, and whether this language should be moved to 385. E. Roeder suggested the language be moved, to prevent systems being designed with a bypass to avoid treatment.

Motion by S. Williams	Create a ballot to include 13.3.3 from Std. 46 in Std. 385
Second:	J. Meyer

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Discussion:	None
Vote:	All in favor
Motion:	Carries

The next portion was 13.6.1 – ozone resistance evaluation. the group decided this did not need to be included in 385, as existing language in 8.6.1 of Std. 385 already dealt with the length of the test. The group next reviewed Table 13.1 – components and piping. S. Williams suggested the table be included as an informative annex.

Motion by S. Williams	Create a ballot to include Table 13.1 from Std. 46 in Std. 385 as an informative annex.
Second:	K. Sherman
Discussion:	None
Vote:	All in favor
Motion:	Carries

The last portion of the document related to the ozone testing mentioned in the WWT-2019-8 – 385 revisions issue paper, 13.6.4 – Ozone loss evaluation. there was some discussion about where the ozone detectors would be installed, and if the intent was to prevent ozone gas buildup in the final chamber. S. Williams suggested that instead of testing on the 1st, 14th, and 26th weeks, testing for 1 entire week early in test (when the ozone generators are working at their best). The group discussed measuring the ozone levels in the tank, and around the generator. J. Bell suggested including a version of the language in Std. 385, and suggested that B. Hennig, S. Williams, and J. Bell draft language. It was noted that there was language in 385, but it did not provide a pass/fail value, nor did it provide location for measurement.

The group spent the remaining time discussing the removal of chlorine disinfection, Ozone, and UV systems. M. Braden asked for clarification on how the transition would be handled, especially relative to codes that already referenced standard 46. J. Snider explained that language had been balloted into Standard 46 noting the transition:

> The evaluation of chlorine disinfection devices shall be performed in accordance with NSF/ANSI 385 – *Disinfection Mechanics.*
> NOTE: The procedures for evaluation of chlorine disinfection devices were removed from NSF/ANSI 46 and reestablished in NSF/ANSI 385. The chlorine disinfection device evaluation language is due to be retired from NSF/ANSI 46 three years after the adoption of NSF/ANSI 385 (February 2023).

Additionally, when the chlorine disinfection devices language is removed from Standard 46 in February of 2023, the ballot, which was approved by the task group, will include language referring the user to standard 385:

> The intent of the Joint Committee is for chlorine disinfection devices that were previously part of the scope of NSF/ANSI 46 - Evaluation of Components and Devices Used in Wastewater Treatment Systems are now addressed in the scope of NSF/ANSI 385 – Disinfection Mechanics.

J. Bell suggested that a separate meeting be held to help clarify this transition. J. Snider agreed to set up a meeting with J. Bell, J. Snider, S. Steiner, and J. Evans.

Action items

C. Bishop to draft scope paragraph for UVT optional testing / peat transmittance.
J. Cruver to draft photorepair testing language and send to S. Williams for review.
J. Snider to draw up issue papers and ballots for 13.3.3 and Table 13.1 of Standard 46 for balloting into standard 385.
J. Snider to set up 46/385 transition meeting to discuss clarifying the transition.