TO: Joint Committee on Wastewater Technology  
FROM: Dr. Robert W. Powitz, Chair of the Joint Committee  
DATE: November 13, 2020  
SUBJECT: Proposed revision to NSF/ANSI 46 - Evaluation of Components and Devices Used in Wastewater Treatment Systems (46i37r1)

Revision 1 of NSF/ANSI 46 issue 37 is being forwarded to the Joint Committee for consideration. Please review the proposal and submit your ballot by December 5, 2020 via the NSF Online Workspace <www.standards.nsf.org>.

When adding comments, please identify the section number/name for your comment and add all comments under one comment number where possible. If you need additional space, please upload a word or pdf version of your comments online via the browse function.

**Purpose**

The proposed revision will add language regarding the removal of Ozone and UV disinfection devices from NSF/ANSI 46.

**Background**

In July of 2019, Standard 385 – Disinfection Mechanics was approved and became an NSF/ANSI standard. Since the approval of NSF/ANSI 385, the WWT Task Group on 385 worked to address the chlorine disinfection devices language that originated in NSF/ANSI 46. After discussion in the TG and referencing other NSF standards that have had sections removed and incorporated into new standards, the group drafted language regarding the removal of chlorine disinfection devices in February of 2023. The language was recently approved and incorporated into the standard. An affirmative comment received on the ballot noted that similar language was necessary for Ozone and UV disinfection devices.

This ballot will add similar language regarding the planned removal of language regarding Ozone and UV devices from NSF/ANSI 46.

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

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Chair, Joint Committee on Wastewater Technology  
c/o Jason Snider  
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12 Ultraviolet (UV) disinfection devices

12.1 Scope

This section establishes requirements for UV devices used to irradiate and disinfect secondary treated residential wastewater to less than 200 fecal coliform organisms per 100 mL. It is intended for devices that deliver UV light radiation to secondary treated wastewater from small sources such as individual homes or similar capacity commercial sources and provide an exposure chamber for fecal coliform reduction (hereafter referred to as UV disinfection devices). The rated capacities for UV disinfection devices considered in this section shall be between 1,514 L/d (400 gal/d) and 5,678 L/d (1,500 gal/d).

The evaluation of UV devices shall be performed in accordance with NSF/ANSI 385, Disinfection Mechanics.

NOTE — The procedures for evaluation of UV disinfection devices were removed from NSF/ANSI 46 and reestablished in NSF/ANSI 385. The UV disinfection device evaluation language is due to be retired from NSF/ANSI 46 three years after the adoption of NSF/ANSI 385 (February 2023).

13 Ozone generation devices

13.1 Scope

This section establishes the requirements for ozonation systems used to diffuse controlled amounts of ozone into the effluent of secondary treated residential wastewater. It is intended for devices that deliver ozone into a contact chamber for demonstrating fecal coliform reduction (hereafter referred to as an ozonating system). The rated capacities for ozonating systems shall be between 757 L/d (200 gal/d) and 5,678 L/d (1,500 gal/d).

The evaluation of Ozone generation devices shall be performed in accordance with NSF/ANSI 385, Disinfection Mechanics.

NOTE — The procedures for evaluation of Ozone generation devices were removed from NSF/ANSI 46 and reestablished in NSF/ANSI 385. The Ozone generation device evaluation language is due to be retired from NSF/ANSI 46 three years after the adoption of NSF/ANSI 385 (February 2023).

Rationale: This will add language regarding the removal of Ozone and UV disinfection devices.