**TO:** Joint Committee on Wastewater Technology

**FROM:** Dr. Robert W. Powitz, Chair of the Joint Committee

**DATE:** June 13, 2023

**SUBJECT:** Proposed revision to NSF/ANSI 350 *Onsite residential and commercial, water reuse treatment systems (350i78r1)*

Revision 1 of NSF/ANSI 350, issue 78 is being forwarded to the Joint Committee for consideration. Please review the proposal and submit your ballot by **July 4, 2023** via the NSF Online Workspace <www.standards.nsf.org>.

Please review all ballot materials. When adding comments, please include the section number applicable to your comment and add all comments under one comment number whenever possible. If you need additional space, please use the attached blank comment template in the reference documents and upload online via the browse function.

**Purpose**

The purpose of this ballot is to clarify language regarding vacation stress testing in NSF/ANSI 350.

**Background**

The issue proponent notes that language in Section 8.1.2.2.2.2 and the corresponding table do not currently align. The current body of Section 8.1.2.2.2 states that "For residential systems designed to treat laundry or combined bathing and laundry greywater, the 60% dosing upon resumption of power shall include one wash load (114 L [30 gal]) of the laundry challenge water (described in Section 8.1.2.1.2)." This is redundant for the residential laundry test, as the influent water is already comprised of the laundry challenge water.

For the table in Section 8.1.2.2.2.2 clarification needs to be added in the combined row, under Day 3. That only for residential systems, does one wash load need to be added. There are also some slight editorial changes to help harmonize that cell with the following cells.

This issue paper was presented at the 2023 Wastewater Technologies Joint Committee meeting, and a motion was approved there to send the language to approval ballot.

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

Dr. Robert W. Powitz
Chair, Joint Committee on Wastewater Technology
c/o Jason Snider
Joint Committee Secretariat
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**[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]**

NSF International Standard /
American National Standard
for Wastewater Technology –

# Onsite Residential and Commercial Water Reuse Treatment Systems

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## 8 Performance testing and evaluation

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### 8.1 Greywater treatment systems with capacities up to 5,678 LPD (1,500 GPD)

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#### 8.1.2 Testing and evaluation conditions, hydraulic loading, and schedules

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##### 8.1.2.2 Hydraulic loading and schedules

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###### 8.1.2.2.2 Stress loading

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####### 8.1.2.2.2.2 Power / equipment failure stress

On the day the power / equipment failure stress is initiated power to the system shall be turned off at 9:00 p.m. After the last dosing period of the day, dosing shall be discontinued for 48 h. After 48 h, power shall be restored and the system shall be dosed over a 3-h period with 60% of its daily hydraulic input capacity. For residential systems designed to treat ~~laundry or~~ combined bathing and laundry greywater, the 60% dosing upon resumption of power shall include one wash load (114 L [30 gal]) of the laundry challenge water (described in Section 8.1.2.1.2).

| | Day 1 | Day 2 | Day 3 |
|---|---|---|---|
| combined | normal dosing, power off at 9:00 p.m. | no dosing, no power | Power restored at 9:00 p.m. Dose 60% of daily input capacity between 9:00 p.m. and midnight, including one wash load for residential systems |
| bathing | normal dosing, power off at 9:00 p.m. | no dosing, no power | Power restored at 9:00 p.m. Dose 60% of daily input capacity between 9:00 p.m. and midnight. |
| laundry | normal dosing, power off at 9:00 p.m. | no dosing, no power | Power restored at 9:00 p.m. Dose 60% of daily input capacity between 9:00 p.m. and midnight |

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