TO: Joint Committee on Wastewater Technology
FROM: Dr. Robert Powitz, Chair of the Joint Committee
DATE: February 5, 2020
SUBJECT: Proposed revision to NSF/ANSI 350 – Onsite Residential and Commercial, Water Reuse Treatment Systems (350i46r1)

Revision 1 of NSF/ANSI 350, issue 46 is being forwarded to the Joint Committee for consideration. Please review the proposal and submit your ballot by February 26, 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 modify language regarding wash load stress in NSF/ANSI 350.

**Background**

NSF/ANSI 350 currently requires a wash load at the end of power / equipment failure stress for residential but not for commercial systems. This makes sense. However, the standard is inconsistent, requiring the wash loads at the end of vacation stress for both residential and commercial systems. You might argue that having a vacation stress does not make sense for commercial systems, but a non-loading stress still may add value. To be consistent with the approach for power / equipment failure stress, the wash loads included in the end of vacation stress dosing should be removed for commercial systems.

This issue paper was presented at the 2019 WWT Joint Committee meeting, and a motion to send language to ballot was approved.

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

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NSF/ANSI Standard
for Wastewater Technology–

Onsite residential and commercial
water reuse treatment systems

8 Performance testing and evaluation

8.1 Greywater treatment systems with capacities up to 5,678 L/day (1,500 gal/day)

8.1.2 Testing and evaluation conditions, hydraulic loading, and schedules

8.1.2.2 Hydraulic loading and schedules

8.1.2.2.3 Vacation stress

On the day that the non loading stress is initiated, a system treating combined greywater shall be dosed at 40% of its daily hydraulic capacity between 7:00 a.m. and 10:00 a.m. and at 35% between 11:00 a.m. and 2:00 p.m. A system treating bathing water shall be dosed at 50% of its daily hydraulic capacity between 7:00 a.m. and 10:00 a.m. and at 25% between 11:00 a.m. and 2:00 p.m. A system treating laundry water shall be dosed at 100% of its daily hydraulic capacity between 7:00 a.m. and 10:00 a.m. Dosing shall be discontinued for eight consecutive days, beginning the day after initiating the stress (power shall continue to be supplied to the system). Between 6:00 p.m. and 9:00 p.m. of the ninth day, the system shall be dosed with 60% of its daily hydraulic capacity. This shall include three wash loads (each wash load equal to 114 L [30 gal]) of the laundry challenge water (described in Section 8.1.2.1.2) for residential systems designed to treat more than 100 gpd combined greywater. This shall include two wash loads (each wash load equal to 114 L [30 gal]) of the laundry challenge water (described in Section 8.1.2.1.2) for residential systems designed to treat more than 50 gpd combined greywater. This shall include one wash load (each wash load equal to 114 L [30 gal]) of the laundry challenge water (described in Section 8.1.2.1.2) for residential systems designed to treat 50 gpd or less combined greywater.
<table>
<thead>
<tr>
<th></th>
<th>7:00 a.m. – 10:00 a.m.</th>
<th>11:00 a.m. – 2:00 pm</th>
<th>Following 8 days</th>
<th>Day 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>combined &gt; 100 gpd</td>
<td>40% of daily capacity</td>
<td>35% of daily capacity</td>
<td>no dosing</td>
<td>60% from 6:00 p.m. to 9:00 p.m., including 3 wash loads for residential systems</td>
</tr>
<tr>
<td>combined &gt; 50 gpd</td>
<td>40% of daily capacity</td>
<td>35% of daily capacity</td>
<td>no dosing</td>
<td>60% from 6:00 p.m. to 9:00 p.m., including 2 wash loads for residential systems</td>
</tr>
<tr>
<td>combined ≤ 50 gpd</td>
<td>40% of daily capacity</td>
<td>35% of daily capacity</td>
<td>no dosing</td>
<td>60% from 6:00 p.m. to 9:00 p.m., including 1 wash load for residential systems</td>
</tr>
<tr>
<td>bathing</td>
<td>50% of daily capacity</td>
<td>25% of daily capacity</td>
<td>no dosing</td>
<td>60% from 6:00 p.m. to 9:00 p.m.</td>
</tr>
<tr>
<td>laundry</td>
<td>100% of daily capacity</td>
<td>no dosing</td>
<td>no dosing</td>
<td>60% from 6:00 p.m. to 9:00 p.m.</td>
</tr>
</tbody>
</table>