WAC 246-272A-0110  Proprietary treatment products—Certification 
and registration.  (1) Manufacturers shall register their proprietary 
treatment products with the department before the local health officer 
may permit their use.

(2) To qualify for product registration, manufacturers desiring 
to sell or distribute proprietary treatment products in Washington 
state shall:
(a) Verify product performance through testing using the testing 
protocol established in Table I and register their product with the 
department using the process described in WAC 246-272-0120;
(b) Report test results of influent and effluent sampling ob-
tained throughout the testing period (including normal and stress 
loading phases) for evaluation of constituent reduction according to 
Table II;
(c) Demonstrate product performance according to Table III. All 
three-day averages and geometric means obtained throughout the test 
period must meet the identified threshold values to qualify for regis-
tration at that threshold level; and
(d) For registration at levels A, B, and C verify bacteriological 
reduction according to WAC 246-272A-0130.

(3) Manufacturers verifying product performance through testing 
according to the following standards or protocols shall have product 
testing conducted by a testing facility accredited by ANSI:
(a) ANSI/NSF Standard 40—Residential Wastewater Treatment Sys-
tems;
(b) NSF Standard 41: Non-Liquid Saturated Treatment Systems;
(c) NSF Protocol P157 Electrical Incinerating Toilets - Health 
and Sanitation; or
(d) Protocol for bacteriological reduction described in WAC 
246-272A-0130.

(4) Manufacturers verifying product performance through testing 
according to the following standards or protocols shall have product 
testing conducted by a testing facility meeting the requirements es-
tablished by the Testing Organization and Verification Organization, 
consistent with the test protocol and plan:
(a) EPA/NSF—Protocol for the Verification of Wastewater Treat-
ment Technologies; or
(b) EPA Environmental Technology Verification Program protocol 
for the Verification of Residential Wastewater Treatment Technologies 
for Nutrient Reduction.

(5) Treatment levels used in these rules are not intended to be 
applied as field compliance standards. Their intended use is for es-
tablishing treatment product performance in a product testing setting 
under established protocols by qualified testing entities.

<table>
<thead>
<tr>
<th>Treatment Component/ Sequence Category</th>
<th>Required Testing Protocol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 1 Designed to treat sewage with strength typical of a residential source when septic tank effluent is anticipated to be equal to or less than treatment level E.</td>
<td>ANSI/NSF 40—Residential Wastewater Treatment Systems (protocols dated between July 1996 and the effective date of these rules)</td>
</tr>
</tbody>
</table>
### Testing Requirements for Proprietary Treatment Products

<table>
<thead>
<tr>
<th>Treatment Component/Sequence Category</th>
<th>Required Testing Protocol</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Category 2</strong> Designed to treat high-strength sewage when septic tank effluent is anticipated to be greater than treatment level E. (Such as at restaurants, grocery stores, mini-marts, group homes, medical clinics, residences, etc.)</td>
<td>EPA/NSF Protocol for the Verification of Wastewater Treatment Technologies/ EPA Environmental Technology Verification (April 2001)</td>
</tr>
<tr>
<td><strong>Category 3</strong> Black water component of residential sewage (such as composting and incinerating toilets).</td>
<td>NSF/ANSI Standard 41: Non-Liquid Saturated Treatment Systems (September 1999) NSF Protocol P157 Electrical Incinerating Toilets - Health and Sanitation (April 2000)</td>
</tr>
</tbody>
</table>

### TABLE II

<table>
<thead>
<tr>
<th>Test Results Reporting Requirements for Proprietary Treatment Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment Component/Sequence Category</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
</tr>
</tbody>
</table>
| **Category 1** Designed to treat sewage with strength typical of a residential source when septic tank effluent is anticipated to be equal to or less than treatment level E. | Report test results of influent and effluent sampling obtained throughout the testing period for evaluation of constituent reduction for the parameters: CBOD$_5$, and TSS:  
  - □ Average  
  - □ Minimum  
  - □ Median  
  - □ 30-day Average (for each month)  
  For bacteriological reduction performance, report fecal coliform test results of influent and effluent sampling by geometric mean from samples drawn within thirty-day or monthly calendar periods, obtained from a minimum of three samples per week throughout the testing period. See WAC 246-272A-0130.  
  Test report must also include the individual results of all samples drawn throughout the test period. |
| **Category 2** Designed to treat high-strength sewage when septic tank effluent is anticipated to be greater than treatment level E. (Such as at restaurants, grocery stores, mini-marts, group homes, medical clinics, residences, etc.) | Report all individual test results and full test average values of influent and effluent sampling obtained throughout the testing period for: CBOD$_5$, TSS and O&G. Establish the treatment capacity of the product tested in pounds per day for CBOD$_5$. |
**TABLE III**

<table>
<thead>
<tr>
<th>TreatmentComponent/Sequence Category</th>
<th>Product Performance Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Category 1</strong> Designed to treat sewage with strength typical of a residential source when septic tank effluent is anticipated to be equal to or less than treatment level E.</td>
<td><strong>Product Performance Requirements</strong></td>
</tr>
<tr>
<td><strong>Treatment System Performance Testing Levels</strong></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>CBOD&lt;sub&gt;5&lt;/sub&gt;</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
</tr>
<tr>
<td>A</td>
<td>10 mg/L</td>
</tr>
<tr>
<td>B</td>
<td>15 mg/L</td>
</tr>
<tr>
<td>C</td>
<td>25 mg/L</td>
</tr>
<tr>
<td>D</td>
<td>25 mg/L</td>
</tr>
<tr>
<td>E</td>
<td>125 mg/L</td>
</tr>
<tr>
<td>N</td>
<td>——</td>
</tr>
</tbody>
</table>

Values for Levels A - D are 30-day values (averages for CBOD<sub>5</sub>, TSS, and geometric mean for FC.) All 30-day averages throughout the test period must meet these values in order to be registered at these levels. Values for Levels E and N are derived from full test averages.

**Category 2** Designed to treat high-strength sewage when septic tank effluent is anticipated to be greater than treatment level E. (Such as at restaurants, grocery stores, mini-marts, group homes, medical clinics, residences, etc.) All of the following requirements must be met:

1. All full test averages must meet Level E; and
2. Establish the treatment capacity of the product tested in pounds per day for CBOD<sub>5</sub>.

**Category 3** Black water component of residential sewage (such as composting and incinerating toilets). Test results must meet the performance requirements established in the NSF test protocol.

**Total Nitrogen Reduction in Categories 1 & 2 (Above)** Test results must establish product performance effluent quality meeting Level N, when presented as the full test average.

[Statutory Authority: RCW 43.20.050. WSR 05-15-119, § 246-272A-0110, filed 7/18/05, effective 9/15/05.]