Addendum to State of New Hampshire Emerald Ash Borer Quarantine Compliance Agreement – Treatment Options

Compliance Agreement #

1. Removal of bark and additional ½ inch of wood
The standard for bark removal calls for 100% of the bark to be removed and an additional ½ inch of wood. No residual bark or cambium shall remain.

2. Kiln Sterilization Treatment Schedule
Treatment: T404-b-4 Kiln Sterilization

**Note:** The maximum thickness of allowable wood is three inches.

<table>
<thead>
<tr>
<th>Dry Bulb temperatures</th>
<th>Wet Bulb depression</th>
<th>Relative humidity</th>
<th>Moisture content</th>
<th>Thickness of lumber</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>140°F</td>
<td>7°F</td>
<td>82%</td>
<td>13.8%</td>
<td>1 inch</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 inches</td>
<td>5 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 inches</td>
<td>7 hrs</td>
</tr>
<tr>
<td>130°F</td>
<td>16°F</td>
<td>60%</td>
<td>9.4%</td>
<td>1 inch</td>
<td>10 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 inches</td>
<td>12 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 inches</td>
<td>14 hrs</td>
</tr>
</tbody>
</table>

1. After kiln sterilization, the wood will be checked with a moisture meter to verify the wood is at or below the appropriate moisture content listed above.
   Two readings will be taken per stack of wood: one near the top of the stack and one near the bottom of the stack. These readings will be recorded along with the date/time and quantity of ash. This database information will be supplied to NHDAMF on a monthly basis.
2. If the wood does not meet moisture content guidelines, it will NOT be in compliance unless it undergoes additional kiln sterilization and can then demonstrate that the moisture requirement has been met.

3. Fumigation Treatment Schedule
Treatment: T404-b-1-1 MB at NAP-tarpaulin or chamber

1. The fumigation must be performed by a licensed fumigator.
2. The licensed fumigator must have a fumigator compliance agreement with United States Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine.
3. Review the treatment schedule for specific fumigation guidelines.

4. Heat Treatment Schedule
Treatment: T314-a Heat treatment

1. Heat treatment procedures may employ steam, hot water, kilns, or any other method that raises the temperature of the center of the wood to at least 140°F (60°C) and maintains the center temperature for at least 60 minutes.
2. Facilities, temperature monitors and temperature sensors will be approved by NHDAMF prior to a compliance agreement being initiated.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Dosage Rate (lb/1,000 ft³)</th>
<th>Minimum Concentration Readings (ounces) At:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.5 hr</td>
</tr>
<tr>
<td>70°F or above</td>
<td>3 lbs</td>
<td>36</td>
</tr>
<tr>
<td>40-69°F</td>
<td>5 lbs</td>
<td>60</td>
</tr>
</tbody>
</table>

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5. Chip or Compost
This facility will ship regulated ash chips and mulch interstate only after one of the following treatments is completed: 1) Produce mulch chips that comply with the Mulch Sample Protocol (chips less than 1 inch in two dimensions) or 2) Composting process as outlined in procedure adapted from APHIS’ Gypsy Moth Manual (For additional information see http://www.aphis.usda.gov/plant_health/plant_pest_info/emerald_ash_b/ regulatory.shtml)
6. Safeguarding

This facility will distribute bundled and labeled hardwood firewood intrastate from the distribution center located in the quarantined area to retail facilities under the following conditions:

1. Firewood stored and distributed shall be either:
   a. Certified by USDA or State of New Hampshire for treatment of EAB under an appropriate compliance agreement or;
   b. Originates from an area not quarantined for EAB

2. Firewood bundles will be individually labeled
   a. Treated certified bundles will be labeled in a format approved by USDA-APHIS-PPQ.
   b. Bundles originating from non-quarantined states or counties will be labeled with origin to the county level and attest to the treatment standards used.

3. Firewood will not be stored outside at the Distribution Center while awaiting delivery to the retail stores.

4. Firewood will be transported in enclosed containers and/or vehicles.

Facilities outside the quarantined area of the regulated material’s origin may only accept regulated ash logs, lumber, stumps, branches, and chips moved intrastate from a shipper under an appropriate State of New Hampshire compliance agreement with a valid limited permit (PPQ 530). PPQ Limited permits must be signed and dated upon receipt, maintained at the mill, and surrendered to the State of New Hampshire upon request. The manufacturing/treatment process will take place on the mill premises between October 1 and May 1. Regulated materials accepted must meet the conditions in addition to the selected treatment/mitigation option requirements:

- Facility will ensure that all regulated material will be physically separated from other regulated items until processed and waste disposed of by shredding/chipping to less than an inch in two dimensions, and/or burned on site. None of these items will be sold as firewood.
- Facility will ensure that all regulated material (including waste i.e. slab wood) will be processed or disposed of by See Zone Reference for Dates. Any regulated materials remaining after See Zone Reference for Dates will be considered a violation of this agreement. If regulated items are present in violation of this agreement, they will be immediately treated/disposed of under NHDAMF supervision using appropriate safeguards at the owner’s expense. The manufacturing/treatment process will take place on the mill premises between See Zone Reference for Dates.

8. ISPM-15 for Ash Lumber in Wood Packing Material

Treatment: 1404-e-2

Heat treatments to achieve a minimum core temperature of 66°C (146.8°F) for a minimum of 30 minutes. Treatments must be conducted in USDA approved facilities. This establishment agrees to maintain their status as an USDA Approved Facility for WPM through a certification program with a company that is accredited by the ALSC (American Lumber Standards Committee) WPM Program and meets IPPC Guidelines.

Additional Items

A. Nursery Stock

There is no approved treatment/mitigation for ash nursery stock. All ash nursery stock is prohibited from exiting the regulated areas.

B. Electronic Stamp for EAB Firewood and Mulch Certification

An electronic/print shield may be used in lieu of PPQ Form 540 as indicated in the compliance agreement. This file or printout will be provided by USDA, APHIS, PPQ for use by the establishment. The size of the shield may be modified for use on packaging/forms but must remain large enough to be legible. A copy or imprint utilizing the shield must be provided for approval prior to use and a log must be kept in accordance with USDA, APHIS, PPQ quality assurance protocols.

C. Compliance Stipulations

This agreement shall remain in effect one year, but may be revised or revoked for noncompliance.

- The NHDAMF retains the right to conduct inspections of regulated articles, monitor inspection procedures, and examine shipment, treatment, and certificate records at any time.
- If the Establishment named in block 1 fails to comply with the provisions of this Compliance Agreement and/or the Emerald Ash Borer Quarantine regulations, this Compliance Agreement will be canceled. In addition, violations of state regulations are subject to criminal penalties with monetary fines or civil penalties in accordance with RSA 433:32 and RSA 227-K:17. The NHDAMF reserves the right to revise or cancel the Compliance Agreement at any time.
- Compliance agreements are non-transferable. The establishment must notify the NHDAMF of any change regarding ownership, location, company name, or processing of material.

D. Handling of Federal Forms

The establishment will ensure that each shipment of treated regulated material moved interstate is accompanied by a completed Federally issued Certificate (PPQ Form 540) and will maintain Part 2 (green copy) of the PPQ 540 Certificate at their premises. This establishment will ensure that the Federal Certificates (PPQ Form 540) are safeguarded from misuse, unauthorized use, and loss. No certificates are to be duplicated without the approval of USDA-PPQ. All certificates must be accounted for, including voids.

The USDA retains the right to conduct inspections of regulated articles, monitor inspection procedures, and examine shipment, treatment, and certificate records at any time. All records must be maintained for at least 36 months. All document requests will be filled within 48 hours of the initial request. Inspector copies of Federal certificates, Limited Permits and other forms must be forwarded to the issuing office once per month.

See Zone Reference for Dates

Shipments will be allowed if a limited permit (PPQ 530) is present with each shipment. Shipments must proceed from origin to mill destination without stopping (except for refueling or traffic conditions).

See Zone Reference for Dates

No shipment of regulated materials under this compliance agreement.

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