USDA, APHIS, PLANT PROTECTION &	QUARANTINE	Public reporting burden for this collection of information is estimated to average 1.25 hours per						
		esponse, including the time for reviewing instructions, searching existing data sources, gathering and naintaining the data needed, and completing and reviewing the form. Send comments regarding this						
l i		burden estimate or any other aspects of this collection of information, including suggestions for reducing the burden, to USDA, OIRM, Clearance Officer, Room 404-W, Washington, DC, 20250. When replying						
1. Name or Address of Person or Firm		refer to the OMB number and form number in you letter. 2. Location						
CONTACT								
ESTABLISHMENT ADDRESS		COUNTY PHONE						
CITY, ZIP		FAX						
3. Regulated Article(s)		• •						
All Hardwood Firewood (Non-Coniferous)								
4. Applicable Laws/Regulations 7CEP 201 52 Emerald Ash Boror (Agrilus planipoppis) State of EAB Interior Quaranting								
7CFR 301.53 Emerald Ash Borer (Agrilus planipennis), State of EAB Interior Quarantine 5. I/We agree to the following:								
0 0	a Compliance Agreem	nent with the United States Dept. of Agriculture (USDA) and the						
ESTABLISHMENT (Fill In) hereby enters into a Compliance Agreement with the United States Dept. of Agriculture (USDA) and the Department of Agriculture (USDA) an								
on this Compliance Agreement. Logs, lumber, firewood, and bark are subject to additional regulations and requirements if moved outside an area								
regulated for Gypsy Moth. A current map of th	e area regulated for C	<u>Gypsy Moth is available at</u>						
http://www.aphis.usda.gov/plant_health/plant_p								
move firewood outside of the area regulated for	or Gypsy Moth without	t contacting the USDA at ."						
		irewood (non coniferous) interstate from a quarantined area ONLY after ONE of						
the following treatments is completed at the es 1. Remove the bark and an additional ½ i		se: (Circle your choice) rk and wood removed will be regulated separately.						
		s of allowable wood is three inches. See attachment A-1.						
 Fumigate according to treatment sched 4. Heat Treatment. See attachment A-1. 	dule. See attachment	A - 1.						
The manufacturing/treatment process must tak	ke place within the qua	uarantined area.						
ESTABLISHMENT (Fill In) will ensure that all r	egulated material will	I be stored separately from other logs until processing and disposal of waste by						
shredding / chipping to less than an inch in two								
		que USDA issued certificate. This establishment will ensure that the Federal						
Certificates are safeguarded from misuse, una certificates must be accounted for, including vo		oss. No certificates are to be duplicated without the approval of USDA-PPQ. All						
, i i		a di se sta sta la construitzza de la construitzio de la construitzio de la construitzio de la construitzio de						
This establishment will maintain records of all shipments of regulated materials. At a minimum, records will contain unique shipment identifiers (invoice number and/or certificate number), shipping dates, amount of firewood per shipment, and destination.								
· · · · · · · · · · · · · · · · · · ·								
The USDA and the second retain the right to conduct inspections of regulated articles, monitor inspection procedures, and examine shipment and treatment 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.								
If Establishment (Fill In) 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 federal regulations, including any alteration, forgery or unauthorized use of Federal forms, are subject to criminal penalties with monetary fines in accordance with 18 USC, imprisonment for a period not to exceed one year,								
		USDA reserves the right to revise or cancel the Compliance Agreement at any						
time.								
		terstate Compliance Agreements issued to Establishment (Fill In) by the USDA						
The establishment must notify the local USDA,		nating from a quarantined area. Compliance agreements are non-transferable.						
The designated signatory individual in blo	ock 6 changes,							
 The applicant/company physically relocate The company name or ownership change 								
 Any other event which may affect the han 		d article occurs.						
Signing below will validate this ag	reement, which	shall remain in effect for one year from date of signing, but						
may be revised as necessary or rev								
6. Signature	7. Name and Title ((Please Print) 8. Date Signed						
9. Agreement Number		10. Date of Agreement						
11. Federal Agency Official (Name, Title, Agen	ісу)	12. Address						
13. Signature		14. Date						
15. State Agency Official (Name, Title, Agency	<i>י</i>)	16. Address						
17. Signature		18. Date						
		10. Date						

Attachment A-1 Treatment Requirements

Kiln Sterilization Treatment Schedule

Treatment: T404-b-4 Kiln Sterilization

Dry Bulb temperatures	Wet Bulb depression	Relative humidity	Moisture content	Thickness of lumber	Exposure time
140 ⁰ F	7 ⁰ F	82%	13.8%	1 inch 2 inches 3 inches	3 hrs 5 hrs 7 hrs
130ºF	16ºF	60%	9.4%	1 inch 2 inches 3 inches	10 hrs 12 hrs 14 hrs

1. Kiln, temperature recording equipment, humidity sensors and temperature sensors must be approved by USDA APHIS PPQ officers. Treatments will be verified by review of treatment printouts.

2. In addition to verifying temperature printouts, after kiln drying, 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 reading will be recorded in a computer database along with the date and time. This database information will be supplied to USDA, APHIS, PPQ 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 drying and can then demonstrate that the moisture requirement has been met.

Fumigation Treatment Schedule

Treatment: T404-b-1-1 MB at NAP-tarpaulin or chamber

Temperature	Dosage Rate	Minimum Concentration Readings (ounces) At:				
	(lb/1,000 ft ³	0.5 hr	2 hrs	4 hrs	16 hrs	
70°F or above	3 lbs	36	30	27	25	
40-69°F	5 lbs	60	51	46	42	

- 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.

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 160°F (71.1°C) and maintains the center temperature for at least 75 minutes.

2. Facilities, temperature monitors and temperature sensors will be approved by CPHST (Center for Plant Health and Science Technology) prior to a compliance agreement being initiated. Compliance agreements must contain a diagram of the treatment facility to include at a minimum: dimensions, capacity, circulation fans, heat input location, and door locations.

3. The temperature monitoring equipment (thermocouples, temperature data loggers etc) must be accurate to within +/- 0.5 °C (0.9 °F) at the treatment temperature, capable of collecting temperature data at least once every five (5) minutes and recording or storing data for 30 days. The temperature monitoring equipment must also be calibrated (by a source that can provide accreditation such as NIST) prior to facility certification tests and a minimum of once an annually thereafter. In addition, if a permanent temperature recording system is used, the system must be recalibrated when any part or portion of the system is repaired or replaced.

4. Temperature monitoring equipment must be able to provide a record of the treatment that identifies each sensor and indicates time and temperature.

5. Internal wood temperatures shall be obtained and verified by sensors located in the larger pieces of firewood at representative locations within the stack. The number of temperature sensing elements required per load will vary with the size of the load. The minimum requirement is four (4) sensors – one (1) for measuring air temperature and three (3) for measuring internal wood temperature. For loads greater than 5,000 ft³ (142 m³) of wood, a minimum of one additional sensor for measuring internal wood temperature must be provided for each additional 2,000 ft³. For example, a load of 9,000 ft³ would require a total of six (6) sensors (one ambient air temperature sensor and five [3 + 2 additional sensors]). At least one sensor shall be placed in a large firewood piece in a portion of the load furthest away from initial heat circulation. Sensors will be placed in the wood in pre-drilled holes to measure core wood temperature. Probes are to be sealed into each hole with putty (electricians putty is recommended) to prevent reading ambient air temperature. Other recording arrangements may be considered if approved by CPHST.

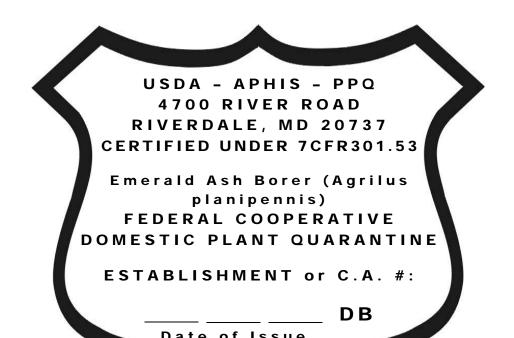
6. Begin treatment when **all** the temperature sensors reach the threshold temperature of 160° F (71.1° C). Treatment will be complete when all temperature probe readings are at or above the threshold temperature for the entire 75 minutes.

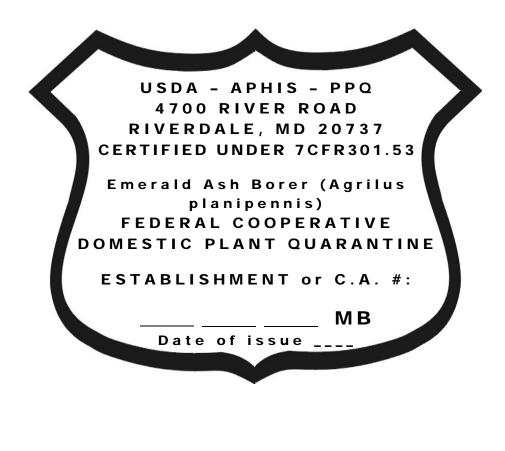
7. Temperature equipment will be certified by USDA APHIS PPQ personnel at regular intervals (suggested monthly) except in those cases where a facility is inactive in excess of 2 months. Certification will occur before production activities resume.

Electronic Stamp for EAB Firewood Certification

Samples of certification stamps available to be used for attachment to commercial labels or invoices moved with treated firewood produced under a compliance agreement for Emerald Ash Borer. On this stamp, a two letter treatment designation follows the compliance agreement number. The letters represent treatments as follows: HT = heat treatment; DB = removal of bark and $\frac{1}{2}$ " of the underling wood; MB = methyl bromide fumigation; and KD = kiln drying.







USDA - APHIS - PPQ 4700 RIVER ROAD RIVERDALE, MD 20737 CERTIFIED UNDER 7CFR301.53

Emerald Ash Borer (Agrilus planipennis) FEDERAL COOPERATIVE DOMESTIC PLANT QUARANTINE

ESTABLISHMENT or C.A. #:

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