



**DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF AIR QUALITY**

EARL RAY TOMBLIN  
GOVERNOR

WILLIAM F. DURHAM, DIRECTOR

RANDY C. HUFFMAN  
CABINET SECRETARY

**PERMIT TO ADMINISTRATIVELY UPDATE  
A HARDWOOD DRYING KILN FACILITY**

IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL LAW (W. Va. Code §§22-5-1 et seq.), AND REGULATIONS PROMULGATED THEREUNDER, THE FOLLOWING PERMITTEE IS AUTHORIZED TO CONSTRUCT, SUBJECT TO THE TERMS AND CONDITIONS OF THIS PERMIT, THE SOURCE DESCRIBED BELOW.

This permit addresses the construction of a 205 HP natural gas-fired boiler at an existing grand-fathered hardwood drying kiln facility. It supercedes permit R13-2203 previously approved on June 3, 1998.

Name of Permittee: Allegheny Wood Products International, Inc.

Name of Facility: Plant Number 6

Permit No.: R13-2203

Plant ID No.: 077-00060

Effective Date of Permit: June 4, 2015

Permit Writer: John Legg

Facility Mailing Address: 240 Airport Road  
Petersburg, WV 26847

County: Preston County

Nearest City or Town: Hazelton

UTM Coordinates: Easting: 624.37 km Northing: 4,390.73 km Zone: 17

Directions to Exact Location: I-68 Exit 29 onto Glade Farms Road/CR-5 for ≈465 feet. Turn left onto Moyers/CR-5/7 and drive for 1.2 miles arriving at 966 Moyers Rd., Bruceton Mills, WV 26525.

Type of Facility or Modification: This permit addresses the construction of a 205 HP (8.715 MM Btu/hr heat input) Hurst natural gas-fired boiler at an existing grand-fathered hardwood drying kiln facility. The steam generated by the Hurst natural gas-fired boiler is transferred to the dry kilns via steam lines to be used in the drying process.

AS A RESULT OF GRANTING OF THIS PERMIT, THE SOURCE IS SUBJECT TO 45CSR30. THE TITLE V (45 CSR 30) APPLICATION WILL BE DUE WITHIN TWELVE (12) MONTHS AFTER THE DATE OF THE COMMENCEMENT OF THE OPERATION OR ACTIVITY (ACTIVITIES) AUTHORIZED BY THIS PERMIT, UNLESS GRANTED A DEFERRAL OR EXEMPTION BY THE DIRECTOR FROM SUCH FILING DEADLINE PURSUANT TO A WRITTEN REQUEST FROM THE PERMITTEE.

IN ACCORDANCE WITH THE PERMIT APPLICATION AND ITS AMENDMENTS, THIS PERMIT IS LIMITED AS FOLLOWS:

## **A. SPECIFIC REQUIREMENTS**

1. The hourly and annual throughput of wood waste, which includes the as-received moisture, into the Hurst Boiler & Welding Co., Model H-2275-15 WF, 16.8 MMBtu/hr wood waste-fired boiler, identified in permit application R13-2203 as 002S, shall not exceed 3,733 pounds per hour nor 16,351 tons per year, respectively. Compliance with the wood waste throughput limit shall be determined using a rolling yearly total. A rolling yearly total shall mean the sum of the throughput at any given time for the previous twelve (12) consecutive months.
2. The Hurst Boiler & Welding Co., Model H-2275-15 WF, 16.8 MMBtu/hr wood waste-fired boiler, identified in permit application R13-2203 as 002S, shall use only wood waste as fuel. Alternative fuels may be used only after receiving prior written approval from the Secretary.
3. Pursuant to 45CSR2, Section 3.1, the emission of smoke and/or particulate matter into the open air from the Hurst Boiler & Welding Co., Model H-2275-15 WF, 16.8 MMBtu/hr wood waste-fired boiler, identified in permit application R13-2203 as 002S, shall not exceed, in shade or appearance, ten (10) percent opacity.
4. The Hurst Boiler & Welding Co., Model H-2275-15 WF, 16.8 MMBtu/hr wood waste-fired boiler, identified in permit application R13-2203 as 002S, shall be equipped with a multiclone mechanical collector, identified in permit application R13-2203 as 002C, for control of particulate matter emissions. Exhaust from the boiler shall at all times be routed through the multiclone. The multiclone shall be installed, maintained, and operated so as to achieve a minimum design efficiency of 70% in the collection of particulate matter.
5. A fabric filter baghouse, identified in permit application R13-2203 as 004C, shall be installed, maintained, and operated so as to achieve a design efficiency off 99.9% in the control of particulate matter emissions from the Model TB 025 HD Time Saver Planer, identified in the permit application as 004S. Additionally, the baghouse shall recirculate cleaned air into the building housing the planer and shall not vent to the outside.
6. Wood waste fuel used to fire the boiler shall be stored in an enclosed storage building.

7. Emissions from the multiclones' stack, identified in permit application R13-2203 as emission point 002E, shall not exceed the following limits:

Pollutant	lbs/hr	tons/year
Carbon Monoxide (CO)	12.30	53.87
Oxides of Nitrogen (NO <sub>x</sub> )	0.71	3.11
Particulate Matter <10um (PM <sub>10</sub> )	4.90	21.46
Sulfur Dioxide (SO <sub>2</sub> )	0.28	1.23
Total Suspended Particulate (TSP)	4.90	21.46
Volatile Organic Compounds (VOCs)	0.34	1.49

8. At such reasonable time(s) as the Secretary may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations as set forth in **SPECIFIC REQUIREMENT A.7** above. Test(s) shall be conducted in accordance with **OTHER REQUIREMENTS B.9** contained herein. The Secretary, or his duly authorized representative, may, at his option, witness or conduct such tests. Should the Secretary exercise his option to conduct such test(s), the operator shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices.
9. The Hurst, Model S14-GO-50, 205 HP (8.715 MMBtu/hr heat input) natural gas-fired boiler, identified in permit application R13-2203A as 003S, shall use only natural gas as fuel.
10. Pursuant to 45CSR2, Section 3.1, the emission of smoke and/or particulate matter into the open air from the Hurst, Model S14-GO050, 205 HP (8.715 MMBtu/hr heat input) natural gas-fired boiler, identified in permit application R13-2203A as 003S, shall not exceed, in shade or appearance, ten (10) percent opacity.

## B. OTHER REQUIREMENTS

1. In accordance with 45CSR30 - "Requirements for Operating Permits", enclosed with this permit is a Certified Emissions Statement registration form. The permittee shall complete the Certified Emissions Statement registration and return it to the WV Department of Environmental Protection, Division of Air Quality (DAQ), along with the appropriate fee, if any is due, within thirty (30) days.

2. The permittee shall comply with all applicable provisions of 45CSR2, 45CSR7, 45CSR10, 45CSR13, 45CSR16, 45CSR30 and 40 CFR 60, Subpart Dc, provided that the permittee shall comply with any more stringent requirements as may be forth under Specific Requirements, Section (A) of this permit.
3. The pertinent sections of 45CSR2 applicable to this facility include, but are not limited to, the following:

§45-2-3.1

No person shall cause, suffer, allow, or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is darker in shade or appearance than (10) percent opacity based on a six minute block average.

§45-2-4.1.

No person shall cause, suffer, allow, or permit the discharge of particulate matter into the open air from all fuel burning units located at one plant, measured in terms of pounds per hour in excess of the amount determined as follows:

§45-2-4.1.(c)

For Type 'c' fuel burning units, in excess of the values listed in Table 45-2A, provided however that no more than three hundred (300) pounds per hour of particulate matter shall be discharged into the open air from all such units.

§45-2-5.1.

No person shall cause, suffer, allow, or permit any source of fugitive particulate matter to operate that is not equipped with a fugitive particulate matter control system. This system shall be operated and maintained in such a manner as to minimize the emission of fugitive particulate matter. Sources of fugitive particulate matter associated with fuel burning units shall include, but not be limited to, the following:

§45-2-5.1.(a)

Stockpiling of ash or fuel either in the open or in enclosures such as silos;

§45-2-5.1.(b)

Transport of ash in vehicles or on conveying systems, to include spillage, tracking, or blowing of particulate matter from or by such vehicles or equipment; and

§45-2-5.1.(c)

Ash or fuel handling systems and ash disposal areas.

§45-2-11

Any fuel burning unit(s) having a heat input under ten (10) million B.T.U.'s per hour will be exempt from sections 4, 5, 6, 8 and 9. However, failure to attain acceptable air quality in parts of some urban areas may require the mandatory control of these sources at a later date.

4. The pertinent sections of 45CSR7 applicable to this facility include, but are not limited to, the following:

§45-7-3.1

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.

§45-7-3.2

The provisions of subsection 3.1 shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.

§45-7-3.7

No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to subsection 5.1 is required to have a full enclosure and be equipped with a particulate matter control device.

§45-7-4.1

No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of this rule.

§45-7-5.1

No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.

#### §45-7-5.2

The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.

#### §45-7-8.1

At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices.

#### §45-7-8.2

The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions.

#### §45-7-10

Provisions of this rule shall not apply to particulate matter emissions regulated by Title 45, Series 2, 3, and 5 or to mobile internal combustion engines and aircraft.

5. The pertinent sections of 45CSR10 applicable to this facility include, but are not limited to, the following:

#### §45-10-3.3.

No person shall cause, suffer, allow, or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined as follows:

#### §45-10-3.3.f.

For Type 'b' and Type 'c' fuel burning units, the product of 3.2 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.

6. The pertinent sections of 45CSR13 applicable to this facility include, but are not limited to, the following:

§45-13-6.1

At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Secretary thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or other tests the Secretary may specify shall be conducted to determine compliance.

§45-13-6.2.

For cause, the Secretary may request the owner or operator of a stationary source to install stack gas monitoring devices the Secretary deems necessary to determine continuing compliance. The data from such devices shall be readily available for review at the source location or other reasonable location that the Secretary may specify. At the request of the Secretary, the data shall be made available for inspection or copying and the Secretary may require periodic submission of excess emission reports.

§45-13-10.2

The Secretary may suspend or revoke a permit or general permit registration if, after (6) months from the date of issuance, the holder of the permit cannot provide the Secretary, at the Secretary's request, with written proof of a good faith effort that construction, modification, or relocation, if applicable, has commenced. Such proof shall be provided not later than thirty (30) days after the Secretary's request. If construction or modification of a stationary source is discontinued for a period of eighteen (18) months or longer, the Secretary may suspend or revoke the permit or general permit registration.

§45-13-10.3

The Secretary may suspend or revoke a permit or general permit registration if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to. Upon notice of the Secretary's intent to suspend, modify or revoke a permit, the permit holder may request a conference with the Secretary in accordance with the provisions of W. Va. Code § 22-5-5 to show cause why the permit or general permit registration should not be suspended, modified or revoked.

7. The pertinent sections of 40 CFR 60, Subpart Dc, applicable to this facility include, but are not limited to, the following:

§60.48c(a)

The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by [§60.7 of this part](#). This notification shall include:

§60.48c.a.(1)

The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

§60.48c.a.(2)

If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under [§60.42c](#), or [§60.43c](#).

§60.48c.a.(3)

The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

§60.48c.a.(4)

Notification if an emerging technology will be used for controlling SO<sub>2</sub> emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of [§60.42c\(a\)](#) or [\(b\)\(1\)](#), unless and until this determination is made by the Administrator.

8. All notifications and reports required pursuant to 40 CFR 60 under §60.7 shall be forwarded to:

Director  
WVDEP  
Division of Air Quality  
601 57th Street, SE  
Charleston, WV 2504-2345

and Associate Director  
Office of Air Enforcement and Compliance Assistance  
(3AP20)  
U.S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

9. Tests that are required by the Secretary to determine compliance with the emission limitations set forth in **SPECIFIC REQUIREMENTS A.7** of this permit shall be conducted in accordance with the methods as set forth below. The Secretary may require a different test method or approve an alternative method in light of any new technology advancements that may occur. Compliance testing shall be conducted at 100% of the peak load unless otherwise specified by the Secretary.
- a. Tests to determine compliance with PM emission limits shall be conducted in accordance with Method 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, or 5H as set forth in 40 CFR 60, Appendix A.

- b. Tests to determine compliance with SO<sub>2</sub> emission limits shall be conducted in accordance with Method 6, 6A, 6B, or 6C as set forth in 40 CFR 60, Appendix A.
  - c. Tests to determine compliance with CO emission limits shall be conducted in accordance with Method 10, 10A, or 10B as set forth in 40 CFR 60, Appendix A.
  - d. Tests to determine compliance with NO<sub>x</sub> emission limits shall be conducted in accordance with Method 7, 7A, 7B, 7C, 7D, or 7E as set forth in 40 CFR 60, Appendix A.
  - e. Tests to determine compliance with VOC emission limits shall be conducted in accordance with Method 25, or 25A as set forth in 40 CFR 60, Appendix A.
10. With regard to any testing required by the Secretary, the permittee shall submit to the Secretary of Air Quality a test protocol detailing the proposed test methods, the date, and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information. The test protocol must be received by the Secretary no less than thirty (30) days prior to the date the testing is to take place. Test results shall be submitted to the Secretary no more than sixty (60) days after the date the testing takes place.
11. For the purposes of determining compliance with maximum throughput limits set forth in **SPECIFIC REQUIREMENTS A.1**, the applicant shall maintain a certified daily record and monthly record. An example form is included as Attachment A. Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Secretary or his/her duly authorized representative upon request.
12. For the purpose of determining compliance with the opacity limit given in **SPECIFIC REQUIREMENTS A.9** (§45-7-3.1), the permittee shall conduct visible emission checks and/or opacity monitoring, and keep records of these checks for the Hurst, Model S14-GO-50, 205 HP (8.715 MMBtu/hr heat input) natural gas-fired boiler's exhaust stack (Emission Point ID No. 003E).

The visible emission checks shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40CFR Part 60, Appendix A, Method 22 or from the lecture portion of the 40CFR Part 60, Appendix A, Method 9 certification course.

Visible emission checks shall be conducted for the Hurst, Model S14-GO-50, 205 HP (8.715 MMBtu/hr heat input) natural gas-fired boiler's exhaust stack (Emission Point ID No. 003E) at least once per calendar month with a maximum of forty-five (45) days between consecutive readings. These checks shall be performed for a sufficient time interval, but no less than one (1) minute per check, to determine if any visible emissions are present. Visible emission checks shall be performed during periods of normal facility operation and appropriate weather conditions.

If visible emissions are present from the Hurst, Model S14-GO-50, 205 HP (8.715 MMBtu/hr heat input) natural gas-fired boiler's exhaust stack (Emission Point ID No. 003E) for three (3) consecutive monthly checks, the permittee shall conduct an opacity reading at the source (having visible emissions for 3 consecutive monthly checks) using the procedures and requirements of Method 9 as soon as practicable, but within seventy-two (72) hours of the final visual emission check. A Method 9 observation at a source(s) restarts the count of the number of consecutive readings with the presence of visible emissions.

## **C. GENERAL REQUIREMENTS**

1. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.
2. The permitted facility shall be constructed and operated in accordance with information filed in Permit Applications R13-2203 and R13-2203A, and any amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.
3. At such reasonable time(s) as the Secretary may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in the permit application and/or applicable regulations. Test(s) shall be conducted in such a manner as the Secretary may specify or approve and shall be filed in a manner acceptable to the Secretary. The Secretary, or his/her duly authorized representative, may at his option witness or conduct such test. Should the Secretary exercise his option to conduct such test(s), the operator shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. For any tests to be conducted by the permittee, a test protocol shall be submitted to the DAQ by the permittee at least thirty (30) days prior to the

test and shall be approved by the Secretary. The Secretary shall be notified at least fifteen (15) days in advance of the actual dates and times during which the test will be conducted.

4. In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.
5. The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.
6. The permittee shall notify the Secretary, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized under this permit.
7. The permittee shall notify the Secretary, in writing, at least fifteen (15) calendar days prior to actual startup of the operations authorized under this permit.
8. This permit is transferable in accordance with the requirements outlined in Section 8.1 of 45CSR13.
9. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7.

ISSUED BY:



WILLIAM F. DURHAM  
WV DIVISION OF ENVIRONMENTAL PROTECTION  
DIVISION OF AIR QUALITY

DATE SIGNED:

