



**STATE OF TENNESSEE
AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE**

PERMIT TO CONSTRUCT / MODIFY AND OPERATE AIR CONTAMINANT SOURCE(S)

Permit Number: 080265
Facility (Permittee): S&S Firewood LLC
Facility ID: 26-0217
Facility Address: 245 Red Hawk Lane, Winchester
Franklin County
Facility Classification: True Minor
Federal Requirements: 40 CFR 63 Subpart JJJJJ
Facility Description: Firewood Supplier

Permit 080265, consisting of 23 pages is hereby issued September 23, 2022, pursuant to the Tennessee Air Quality Act and by the Technical Secretary, Tennessee Air Pollution Control Board, Department of Environment and Conservation. This permit expires on April 01, 2032. The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations (TAPCR).

Michelle W. Owenby
Technical Secretary
Tennessee Air Pollution Control Board

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

Section I – Sources Included in this Permit

FACILITY DESCRIPTION			
Source Number	Source Description	Status	Control Device/Equipment
01	Wood-Fired Boiler #1	New	None

Section II – Permit Record

Permit Type	Description of Permit Action	Issue Date
Initial	Initial Construction and Operating Permit Issuance	September 23, 2022

Section III - General Permit Conditions

G1. Responsible Person

The application that was utilized in the preparation of this permit is dated April 7, 2022 (revised May 31, 2022) and is signed by James Michael Strickland, CEO, the Responsible Person for the permittee. The Responsible Person may be the owner, president, vice-president, general partner, plant manager, environmental/health/safety coordinator, or other person that is able to represent and bind the facility in environmental permitting affairs. If this Responsible Person terminates their employment or is assigned different duties and is no longer the person to represent and bind the permittee in environmental permitting affairs, the new Responsible Person for the permittee shall notify the Technical Secretary of the change in writing. The Notification shall include the name and title of the new Responsible Person assigned by the permittee to represent and bind the permittee in environmental permitting affairs, and the date the new Responsible Person was assigned these duties.

Should a change in the Responsible Person occur, the new Responsible Person must submit the Notification provided in Appendix 1 of this permit no later than 30 days after the change. A separate notification shall be submitted for each subsequent change in Responsible Person.

TAPCR 1200-03-09-.03(8)

G2. Application and Agreement Letters

This source shall operate in accordance with the terms of this permit, the information submitted in the approved permit application referenced in **Condition G1**, and any documented agreements made with the Technical Secretary.

TAPCR 1200-03-09-.01(1)(d)

G3. Submittals

Unless otherwise specified within this permit, the permittee shall submit, preferably via email and in Adobe Portable Document format (PDF), all applicable plans, checklists, certifications, notifications, test protocols, reports, and applications to the attention of the following Division Programs at the email addresses indicated in the table below:

Permitting Program	Compliance Validation Program	Field Services Program
<ul style="list-style-type: none">• Notifications• Startup certifications• Applications• NSPS reports• MACT/GACT/NESHAP reports• Emission Statements	<ul style="list-style-type: none">• Test protocols• Emission test reports• Visible emission evaluation reports	<ul style="list-style-type: none">• Semiannual reports• Annual compliance certifications/status reports
Division of Air Pollution Control William R. Snodgrass TN Tower, 15 th Floor 312 Rosa L. Parks Avenue Nashville, TN 37243 Air.Pollution.Control@tn.gov		Columbia Environmental Field Office Division of Air Pollution Control 1421 Hampshire Pike Columbia, TN 38401 APC.ColuEFO@tn.gov

The permittee shall submit the information identified above as requested in this permit. In lieu of submitting this information to the email addresses above, the permittee may submit the information to the attention of the respective Division Programs at the mailing addresses listed above.

TAPCR 1200-03-09-.03(8)

G4. Notification of changes

The permittee shall notify the Technical Secretary for any of the following changes to a permitted air contaminant source which would not be a modification requiring a new construction permit:

- change in air pollution control equipment that does not result in an increase or otherwise meet the definition of a modification
- change in stack height or diameter
- change in exit velocity of more than 25 percent or exit temperature of more than 15 percent based on absolute temperature.

The permittee must submit the Notification provided in Appendix 2 of this permit 30 days before the change is commenced.

TAPCR 1200-03-09-.02(7)

G5. Permit Transference

- A. This permit is not transferable from one air contaminant source to another air contaminant source or from one location to another location. The permittee must submit a construction permit application for a new source to the Permitting Program not less than 90 days prior to the estimated starting date of these events. If the new source will be subject to major New Source Review, the application must be submitted not less than 120 days in advance of the estimated starting date of these events.

TAPCR 1200-03-09-.03(6)(b) and 1200-03-09-.01(1)(b)

- B. In the event an ownership change occurs at this facility, the new owner must submit the notification provided in Appendix 3 of this permit. The written notification must be submitted by the new owner to the Permitting Program no later than 30 days after the ownership change occurs. If the change in ownership results in a change in Responsible Person for the facility, notification of the change in Responsible Person must also be submitted, as specified in **Condition G1**.

TAPCR 1200-03-09-.03(6)(a) and (b)

G6. Operating Permit Application Submittal

- A. The permittee shall apply for an operating permit renewal not less than 60 days prior to the permit's expiration date.

TAPCR 1200-03-09-.02(3)(a)

- B. Operation of each air contaminant source shall be in accordance with the provisions and stipulations set forth in this permit, all provisions of the Tennessee Division of Air Pollution Control Regulations, and all provisions of the Tennessee Air Quality Act.

TAPCR 1200-03-09-.02(6)

G7. Startup Certification for New or Modified Source(s) – Not Applicable

G8. Fees

The air contaminant source(s) identified in this permit shall comply with the requirements for payment of applicable annual emission fees to the Tennessee Division of Air Pollution Control based on the Administrative Fees Schedule I provided in Appendix 5 of this permit. The fee must be paid to the Division in full by the first day of the month that the fee is due (determined from Appendix 5). (Note: not all facilities are required to pay annual emission fees)

TAPCR 1200-03-26-.02

G9. General Recordkeeping Requirements

- A. All recordkeeping requirements for all data required to be recorded shall follow the following schedules:

For Daily Recordkeeping	For Weekly Recordkeeping	For Monthly Recordkeeping
No later than seven days from the end of the day for which the data is required.	No later than seven days from the end of the week for which the data is required.	No later than 30 days from the end of the month for which the data is required.

- B. The information contained in logs, records, and submittals required by this permit shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request. Computer-generated logs are acceptable. Compliance is assured by retaining the logs, records, and submittals specified in this permit for a period of not less than five years at the facility's address.

TAPCR 1200-03-10-.02(2)(a)

G10. Routine Maintenance Requirements

The permittee shall maintain and repair the emission source, associated air pollution control device(s), and compliance assurance monitoring equipment as required to maintain and assure compliance with the specified emission limits.

TAPCR 1200-03-09-.03(8)

Compliance Method: Records of all repair and maintenance activities required above shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five years. The date each maintenance and repair activity began shall be entered in the log no later than seven days following the start of the repair or maintenance activity, and the completion date shall be entered in the log no later than seven days after activity completion.

G11. Visible and Fugitive Emissions

- A. Unless otherwise specified, visible emissions from this facility shall not exhibit greater than 20% opacity, except for one six-minute period in any one-hour period, and for no more than four six-minute periods in any 24-hour period. A stack is defined as any chimney, flue, conduit, exhaust, vent, or opening of any kind whatsoever, capable of, or used for, the emission of air contaminants.

TAPCR 1200-03-05-.01(1) and 1200-03-05-.03(6)

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

- B. The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Reasonable precautions shall include, but are not limited to, the following:
- (a) Use, where possible, of water or chemicals for control of dust in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land;
 - (b) Application of asphalt, water, or suitable chemicals on dirt roads, material stock piles, and other surfaces which can create airborne dusts;
 - (c) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.

The permittee shall not cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five minutes per hour or 20 minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in TAPCR 1200-03-20. A malfunction is defined as, any sudden and unavoidable failure of process equipment or for a process to operate in an abnormal and unusual manner. Failures that are caused by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

TAPCR 1200-03-08-.01(1) and 1200-03-08-.01(2)

Compliance Method: Fugitive emissions shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.

C. Fugitive emissions from roads and parking areas shall not exhibit greater than 10% opacity.

TAPCR 1200-03-08-.03

Compliance Method: When required to demonstrate compliance, fugitive emissions from roads and parking areas shall be determined by utilizing Tennessee Visible Emissions Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982, and August 24, 1984.

G12. Facility-wide Limitations – Not Applicable

G13. NSPS/NESHAP/MACT/GACT Standards

The following source(s) are subject to and shall comply with all applicable requirements of each NSPS/NESHAP/MACT/GACT standard as indicated in the table below, including the General Provisions identified in Appendix 8. The applicable requirements of each standard are incorporated into this permit pursuant to TAPCR 1200-03-09-.03(8):

Source	NESHAP/MACT/GACT	NSPS
01	MACT JJJJJ	Not Applicable

TAPCR 1200-03-09-.03(8)

Compliance Method: Compliance methods are provided in the conditions in **Section IV** of this permit.

G14. VOC and NO_x Emission Statement – Not Applicable

G15. Permit Supersedes Statement

This permit supersedes all previously issued permits for this source(s).

TAPCR 1200-03-09-.03(8)

G16. Source Testing Requirements – Not Applicable

Section IV – Federal and/or State Only Requirements

40 CFR 63 Subpart JJJJJ: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
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F1-1. Source 01 is subject to and must comply with 40 CFR 63 Subpart JJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources. **Conditions F1-2 and F1-3** have been identified as applicable to Source 26-0217-01 to meet the requirements of 40 CFR 63 Subpart JJJJJ.

TAPCR 1200-03-09-.03(8)

F1-2. Industrial, commercial, and institutional boilers, as listed in 40 CFR §63.11200 and defined in 40 CFR §63.11237, located at an area source of hazardous air pollutants are subject to National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 63, Subpart JJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources. The boiler located at this facility meets the definition of an “*industrial*” boiler and is subject to the requirements of 40 CFR part 63, subpart JJJJJ under the “*biomass*” subcategory. Under the Provisions of 40 CFR part 63, subpart JJJJJ, the boiler is considered to be a “new” source located at an “Area Source.” This unit is considered to be “new” because construction commenced on or after June 4, 2010.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11194

F1-3. Emission Limits, Work Practice Standards, Emission Reduction Measures, & Management Practices

A. The permittee must comply with the work practice standards, emission reduction measures, and management practices specified in Table 2 of 40 CFR Part 63, Subpart JJJJJ, as summarized below:

For a boiler in the following subcategory:	The permittee must:
New biomass-fired boilers that do not meet the definition of seasonal boiler or limited-use boiler, or use an oxygen trim system that maintains an optimum air-to-fuel ratio	Conduct a tune-up of the boiler biennially as specified in §63.11223.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11201(b)

General Compliance Requirements

B. At all times the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11205(a)

Compliance Requirements

C. If the permittee owns or operates an existing or new biomass-fired boiler or an existing or new oil-fired boiler, the permittee must conduct a performance tune-up according to §63.11223(b).

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11214(b)

D. For affected sources subject to the work practice standard or the management practices of a tune-up, the permittee must conduct a performance tune-up according to §63.11223(b), and keep records as required in §63.11225(c) to demonstrate continuous compliance. The permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11223(a)

- E. The permittee must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (1) through (7) of this condition. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the issuance date of this permit.
- (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.
 - (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.
 - (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
 - (5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
 - (6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (i) through (iii).
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler.
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
 - (7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11223(b)

Notification, Reporting, and Recordkeeping Requirements

F. The permittee must submit the notifications specified in paragraphs (1) through (3) of this condition to the administrator.

- (1) The permittee must submit all of the notifications in §§63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to the permittee by the dates specified in those sections except as specified in paragraphs (2) and (3) of this condition.
- (2) An Initial Notification must be submitted no later than 120 days after issuance of this permit.
- (3) The permittee must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in §63.11196 unless the permittee owns or operates a new boiler subject only to a requirement to conduct a biennial or 5-year tune-up. If the permittee owns or operates a new boiler subject to a requirement to conduct a tune-up, the permittee is not required to prepare and submit a Notification of Compliance Status for the tune-up. The permittee must submit the Notification of Compliance Status in accordance with paragraphs (i) and (iv) of this condition. The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs (i) through (iv) of this condition, as applicable, and signed by a responsible official.
 - (i) The permittee must submit the information required in §63.9(h)(2), except the information listed in §63.9(h)(2)(i)(B), (D), (E), and (F). If the permittee conducts any opacity or visible emission observations, or other monitoring procedures or methods, the permittee must submit that data to the Administrator at the appropriate address listed in §63.13.
 - (ii) “This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler.”
 - (iii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: “No secondary materials that are solid waste were combusted in any affected unit.”
 - (iv) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in [§ 63.13](#).

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11225(a)

G. The permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in paragraphs (1) through (2) of this condition. For boilers that are subject only to the energy assessment requirement and/or a requirement to conduct a biennial or 5-year tune-up according to §63.11223(a) and not subject to emission limits or operating limits, the permittee may prepare only a biennial, or 5-year compliance report as specified in paragraphs (1) and (2) of this condition.

- (1) Company name and address.

- (2) Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR 63 Subpart JJJJJ. The permittee's notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official:
- (i) "This facility complies with the requirements in §63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler."
 - (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."
 - (iii) "This facility complies with the requirement in §§63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11225(b)

H. The permittee must maintain the records specified in paragraphs (1) through (4) of this condition.

- (1) As required in §63.10(b)(2)(xiv), the permittee must keep a copy of each notification and report that the permittee submitted to comply with 40 CFR 63 Subpart JJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted.
- (2) The permittee must keep records to document conformance with the work practices, emission reduction measures, and management practices required by §63.11214 and §63.11223 as specified in paragraph (i) of this condition.
 - (i) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.
- (3) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.
- (4) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in §63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11225(c)

- I. The permittee's records must be in a form suitable and readily available for expeditious review. The permittee must keep each record for 5 years following the date of each recorded action. The permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The permittee may keep the records off site for the remaining 3 years.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11225(d)

J. If the permittee intends to commence or recommence combustion of solid waste, the permittee must provide 30 days prior notice of the date upon which the permittee will commence or recommence combustion of solid waste. The notification must identify:

- (1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will commence burning solid waste, and the date of the notice.
- (2) The currently applicable subcategory under 40 CFR 63 Subpart JJJJJJ.
- (3) The date on which the permittee became subject to the currently applicable emission limits.
- (4) The date upon which the permittee will commence combusting solid waste.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11225(f)

K. If the permittee has switched fuels or made a physical change to the boiler and the fuel switch or change resulted in the applicability of a different subcategory within 40 CFR 63 Subpart JJJJJJ, in the boiler becoming subject to 40 CFR 63 Subpart JJJJJJ, or in the boiler switching out of 40 CFR 63 Subpart JJJJJJ due to a fuel change that results in the boiler meeting the definition of gas-fired boiler, as defined in §63.11237, or the permittee has taken a permit limit that resulted in becoming subject to 40 CFR 63 Subpart JJJJJJ or no longer being subject to 40 CFR 63 Subpart JJJJJJ, the permittee must provide notice of the date upon which the permittee switched fuels, made the physical change, or took a permit limit within 30 days of the change. The notification must identify:

- (1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice.
- (2) The date upon which the fuel switch, physical change, or permit limit occurred.

TAPCR 1200-03-09-.03(8) and 40 CFR §63.11225(g)

Section V - Source Specific Permit Conditions

Source Number	Source Description
01	0.51 MMBtu/hr. Wood-Fired Boiler #1

S1-1. Input Limitation(s) or Statement(s) of Design

- A. The design heat input rate of the Wood-Fired Boiler #1 is 0.51 MMBTU/hr. Should the permittee need to modify the Wood-Fired Boiler #1 in a manner that increases the design heat input rate, a construction permit shall first be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated April 7, 2022 (revised May 31, 2022) from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the heat input rate for the Wood-Fired Boiler #1. Documentation shall include, but is not limited to, manufacturer's specifications, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. These documents shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

- B. Only dry wood (no bark) shall be used as fuel(s) for the Wood-Fired Boiler #1. Should the permittee need to modify the Wood-Fired Boiler #1 to allow the use of a fuel other than dry wood (no bark), a construction permit shall first be applied for and received in accordance with TAPCR 1200-03-09-.01 prior to making the change.

TAPCR 1200-03-09-.03(8) and the application dated April 7, 2022 (revised May 31, 2022) from the permittee.

Compliance Method: The permittee shall maintain documentation to demonstrate the type(s) of fuel used by the Wood-Fired Boiler #1. Documentation shall include, but is not limited to, manufacturer's specifications, purchase records, operating manuals, or a tag affixed to the unit by the manufacturer. These documents shall be kept readily available/accessible and made available upon request by the Technical Secretary or a Division representative.

S1-2. Production Limitation(s) – *Not Applicable*

S1-3. Operating Hour Limitation(s) – *Not Applicable*

S1-4. Emission Limitation(s)

- A. Particulate matter (PM) emitted from this source shall not exceed 0.21 pounds per hour (lbs./hr.) on a daily average basis.

TAPCR 1200-03-06-.01(7) and the agreement letter with date September 21, 2022. (Appendix 7)

Compliance Method: Compliance with this emission limitation is assured by compliance with Conditions S1-1A., S1-1B., and the emission factor of 0.417 lb./MMBtu from AP-42, Chapter 1.6 Wood Residue Combustion In Boilers, Table 1.6-1.

- B. Volatile organic compounds (VOC) emitted from this source shall not exceed 0.04 tons during any period of 12 consecutive months.

TAPCR 1200-03-06-.03(2)

Compliance Method: Compliance with this emission limitation is assured by compliance with Conditions S1-1A., S1-1B., and the emission factor of 0.017 lb./MMBtu from AP-42, Chapter 1.6 Wood Residue Combustion In Boilers, Table 1.6-3.

- C. Sulfur Dioxide (SO₂) emitted from this source shall not exceed 0.01 pounds per hour (lbs./hr.) on a daily average basis.

TAPCR 1200-03-14-.01(3) and the agreement letter with date September 21, 2022. (Appendix 7)

Compliance Method: Compliance with this emission limitation is assured by compliance with Conditions S1-1A., S1-1B., and the emission factor of 0.025 lb./MMBtu from AP-42, Chapter 1.6 Wood Residue Combustion In Boilers, Table 1.6-2.

- D. Carbon Monoxide (CO) emitted from this source shall not exceed 1.34 tons during any period of 12 consecutive months.

TAPCR 1200-03-06-.03(2)

Compliance Method: Compliance with this emission limitation is assured by compliance with Conditions S1-1A., S1-1B., and the emission factor of 0.60 lb./MMBtu from AP-42, Chapter 1.6 Wood Residue Combustion In Boilers, Table 1.6-2.

- E. Nitrogen Oxides (NO_x) emitted from this source shall not exceed 1.09 tons during any period of 12 consecutive months.

TAPCR 1200-03-06-.03(2)

Compliance Method: Compliance with this emission limitation is assured by compliance with Conditions S1-1A., S1-1B., and the emission factor of 0.49 lb./MMBtu from AP-42, Chapter 1.6 Wood Residue Combustion In Boilers, Table 1.6-2.

S1-5. Source-Specific Visible Emissions Limitation(s)

Unless otherwise specified, visible emissions from this source shall not exhibit greater than 20% opacity, except for one six-minute period in any one-hour period. A stack is defined as any chimney, flue, conduit, exhaust, vent, or opening of any kind whatsoever, capable of, or used for, the emission of air contaminants.

Compliance Method: When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

TAPCR 1200-03-05-.06(2)

(End of conditions)

The permit application gives the location of this source as 35.180810° Latitude and -86.209170° Longitude.

Appendix 1: Notification of Change in Responsible Person

Facility (Permittee): _____ S&S Firewood LLC _____

Facility ID: _____ 26-0217 _____

Former Responsible Person: _____
Name Title

New Responsible Person: _____
Name Title

Email

Date New Responsible Person was assigned this duty: _____

As the Responsible Person of the above-mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

Appendix 2: Notification of Changes

Facility (Permittee): S&S Firewood LLC

Facility ID: 26-0217

Source Number: _____

	Control Equipment	Stack Height (Feet)	Stack Diameter (Feet)	Exit Velocity (Feet/Second)	Exit Temperature (°F)
Current					
Proposed					
Current					
Proposed					
Current					
Proposed					

Comments:

As the Responsible Person of the above-mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

Appendix 3: Notification of Ownership Change

Facility (Permittee): S&S Firewood LLC (Previous Owner)

Facility ID: 26-0217

Facility (Permittee): _____ (New Owner)

Email Address: _____

Secretary of State Control Number: _____ [as registered with the TN Secretary of State]

Date of Ownership Change: _____

Comments:

As the responsible person for the new owner or operator of the above-mentioned facility (permittee):

- I agree to not make any changes to the stationary source(s) that meet the definition of modification as defined in Division 1200-03 or Division 0400-30¹, and
- I agree to comply with the conditions contained in **the permits listed below**, Division 1200-03 and Division 0400-30 of the Tennessee Air Pollution Control Regulations, the Tennessee Air Quality Act, and any documented agreements made by the previous owner to the Technical Secretary.

List all active permits issued to the facility for which the owner wishes to assume ownership:

As the Responsible Person of the above-mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

¹ Appropriate application forms must be submitted prior to modification of the stationary source(s).

Appendix 4: Startup Certification

Not Applicable

Appendix 5: Fees

All minor and conditional major source annual emission fees are due and payable to the Division in full according to SCHEDULE I below² unless otherwise specified in TAPCR 1200-03-26-.02(6)(c). The county that a source is located in determines when the minor source annual emission fee is due. Fees are due the first day of the month listed. If a source is located on contiguous property in more than one county, the county appearing earliest in the calendar year shall be used to determine the due date of the annual emission fee.

SCHEDULE I Month the Annual Emissions Fee is Due (Accounting Period) Counties in the Monthly Grouping

January	Anderson, Bedford, Benton, Bledsoe, Blount, Bradley, and Campbell
February	Cannon, Carroll, Carter, Cheatham, Chester, Claiborne, Clay, and Cocke
March	Coffee, Crockett, Cumberland, Davidson, Decatur, DeKalb, Dickson, Dyer, and Fayette
April	Fentress, Franklin, Gibson, Giles, Grainger, Greene, and Grundy
May	Hamblen, Hamilton, Hancock, Hardeman, Hardin, Hawkins, Haywood, and Henderson
June	Henry, Hickman, Houston, Humphreys, Jackson, Jefferson, Johnson, Knox, Lake, Lauderdale, Lawrence, and Lewis
July	Lincoln, Loudon, McMinn, McNairy, Macon, and Madison
August	Marion, Marshall, Maury, Meigs, Monroe, Montgomery, Moore, and Morgan
September	Obion, Overton, Perry, Pickett, Polk, Putnam, and Rhea
October	Roane, Robertson, Rutherford, Scott, Sequatchie, Sevier, and Shelby
November	Smith, Stewart, Sullivan, Sumner, Tipton, Trousdale, Unicoi, and Union
December	Van Buren, Warren, Washington, Wayne, Weakley, White, Williamson, and Wilson

² Note that some sources with allowable emissions below specific thresholds are not subject to the requirement to pay annual emission fees. Contact the Emission Inventory Program at apc.inventory@tn.gov if you have any questions.

Appendix 6: Emission Statement for VOC and NO_x

Not Applicable

Appendix 7: Agreement Letters

S&S Firewood LLC

09/21/2022

Tennessee Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower, 15th Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243

RE: Permit Agreement Letter
S&S Firewood LLC
245 Red Hawk Lane Winchester, TN 37398
Emission Source Reference No. APC Facility ID # 26-0217-01 - Source # / Permit No. 980265

Dear Technical Secretary:

On behalf of S&S Firewood LLC, the following limitations are agreed upon for the above referenced facility:

- PM emitted by the Wood-Fired Boiler #1 shall not exceed 0.21 pounds per hour (lbs./hr.) on a daily average basis.
- SO₂ emitted by the Wood-Fired Boiler #1 shall not exceed 0.01 pounds per hour (lbs./hr.) on a daily average basis.

S&S Firewood LLC shall assure compliance with these limitations, by AP-42 emission factors, fuel usage/type, and heat input design rate.

Should you have any questions or require additional information, please contact James Michael Strickland via phone at 931-691-9191 or via e-mail at sandsfirewoodllc@gmail.com.

On behalf of S&S Firewood LLC, I agree to the above limitations. I am authorized to represent and bind the facility in environmental affairs.

Signature



Name (Printed)

James M. Strickland

Title

CEO

Date

9/21/22

Appendix 8: General Provisions for 40 CFR Part 63, Subpart JJJJJ

You are required to comply with the following General Provisions of the federal National Emission Standards for Hazardous Air Pollutants (NESHAP):

General Provisions Citation 40 CFR	Subject of Citation	Applies to Subpart	Explanation
§63.1	Applicability	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.2	Definitions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Additional terms defined in § 63.11237.
§63.3	Units and Abbreviations	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.4	Prohibited Activities and Circumvention	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.5	Preconstruction Review and Notification Requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.6(a), (b)(1)-(b)(5), (b)(7), (c), (f)(2)-(3), (g), (i), (j)	Compliance with Standards and Maintenance Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.6(e)(1)(i)	General Duty to minimize emissions	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See § 63.11205 for general duty requirement.
§63.6(e)(1)(ii)	Requirement to correct malfunctions ASAP	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.6(e)(3)	SSM Plan	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.6(f)(1)	SSM exemption	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.6(h)(1)	SSM exemption	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.6(h)(2) to (9)	Determining compliance with opacity emission standards	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.7(a), (b), (c), (d), (e)(2) - (e)(9), (f), (g), and (h)	Performance Testing Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.7(e)(1)	Performance testing	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See § 63.11210.
§ 63.8(a), (b), (c)(1), (c)(1)(ii), (c)(2) to (c)(9), (d)(1) and (d)(2), (e), (f), and (g)	Monitoring Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

§63.8(c)(1)(i)	General duty to minimize emissions and CMS operation	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.8(c)(1)(iii)	Requirement to develop SSM Plan for CMS	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.8(d)(3)	Written procedures for CMS	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes, except for the last sentence, which refers to an SSM plan. SSM plans are not required.
§63.9	Notification Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes, excluding the information required in § 63.9(h)(2)(i)(B), (D), (E) and (F). See § 63.11225.
§63.10(a) and (b)(1)	Recordkeeping and Reporting Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.10(b)(2)(i)	Recordkeeping of occurrence and duration of startups or shutdowns	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.10(b)(2)(ii)	Recordkeeping of malfunctions	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See § 63.11225 for recordkeeping of (1) occurrence and duration and (2) actions taken during malfunctions.
§63.10(b)(2)(iii)	Maintenance records	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.10(b)(2)(iv) and (v)	Actions taken to minimize emissions during SSM	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.10(b)(2)(vi)	Recordkeeping for CMS malfunctions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.10(b)(2)(vii) to (xiv)	Other CMS requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.10(b)(3)	Recordkeeping requirements for applicability determinations	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.10(c)(1) to (9)	Recordkeeping for sources with CMS	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.10(c)(10)	Recording nature and cause of malfunctions	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See § 63.11225 for malfunction recordkeeping requirements.
§63.10(c)(11)	Recording corrective actions	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See § 63.11225 for malfunction recordkeeping requirements.
§63.10(c)(12) and (13)	Recordkeeping for sources with CMS	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.10(c)(15)	Allows use of SSM plan	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.10(d)(1) and (2)	General reporting requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.10(d)(3)	Reporting opacity or visible emission observation results	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.10(d)(4)	Progress reports under an extension of compliance	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

§63.10(d)(5)	SSM reports	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See § 63.11225 for malfunction reporting requirements.
§63.10(e)	Additional reporting requirements for sources with CMS	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.10(f)	Waiver of recordkeeping or reporting requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.11	Control Device Requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.12	State Authorities and Delegations	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.13	Addresses	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.14	Incorporations by Reference	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.15	Availability of Information and Confidentiality	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.16	Performance Track Provisions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.1(a)(5), (a)(7) -(a)(9), (b)(2), (c)(3)- (4), (d), 63.6(b)(6), (c)(3), (c)(4), (d), (e)(2), (e)(3)(ii), (h)(3), (h)(5)(iv), 63.8(a)(3), 63.9(b)(3), (h)(4), 63.10(c)(2)-(4), (c)(9)	Reserved	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

TAPCR 1200-03-09-.03(8)