Aemilia Hamel

From: Air.Pollution Control

Sent: Tuesday, 31 May, 2022 12:12

To: APC Permitting

Subject: FW: [EXTERNAL] Facility 26-0217 S&S Firewood application corrections

Attachments: APC 100 Strickland Wood Kiln-signed.pdf; APC 101 Emission Point Strickland (1).pdf; APC 102

Process or Fuel Burning Strickland-signed.pdf; S&S Firewood LLC - Wood Kiln Data (1).xlsx

From: S&S Firewood, LLC <sandsfirewoodllc@gmail.com>

Sent: Tuesday, May 31, 2022 11:48 AM

To: Elizabeth Terranova <Elizabeth.Terranova@tn.gov>; Air.Pollution Control <Air.Pollution.Control@tn.gov>

Subject: [EXTERNAL] Facility 26-0217 S&S Firewood application corrections

*** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. ***

Good morning,

I am attaching the requested documents that have been adjusted to reflect the corrected information. This is for the construction application for S&S Firewood LLC with corrected APC 101 to address questions asked per the letter dated April 19, 2022. Also, there are a total of four boilers on the property. The three other boilers are not currently in operation, but we are planning to bring one more into operation. We would also like a construction permit for a new source of air emissions so we can apply for that as well prior to use. Please let me know if there is anything else needed to continue.

Thank you,





*Megan Strickland*S&S Firewood, LLC | Office Manager

phone: 931.691.9191

245 Red Hawk Ln Winchester, TN 37398

w: https://www.sandsfirewood.com/

e: sandsfirewoodllc@gmail.com

fb: https://www.facebook.com/sandsfirewood/

APC 100



DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF AIR POLLUTION CONTROL

William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243 Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION FACILITY IDENTIFICATION

Туре	or print and sub	mit. Atta	ich a	ppropriate so	urce description	n forms.			
		SITE	INFO	DRMATION					
1. Organization's legal r S&S Firewood LLC - 001276		ontrol n	umb	er [as registe	red with the TN	Secretary of State (SOS)]			
2. Site name (if different S&S Firewood LLC	from legal name	≘)							
3. Is a construction per (see instructions for a			g su	bmitted?	/es No				
4. Site address (St./Rd./H 245 Red Hawk Lane	Hwy.)					County name Franklin			
City Winchester			Zip 3739	code 98		5. NAICS or SIC code 321999			
	Latitude 35.180810	•			Longitude -86.209170				
CONTACT INFORMATION (RESPONSIBLE PERSON)									
7. Responsible person// James Michael Strickland		Phone number with area code 931-446-6525							
Mailing address (St./Rd./Hwy.) 245 Red Hawk Lane					Fax number v N/A	Fax number with area code N/A			
City Winchester		State TN		Zip code 37398	Email address mstrickland2208@gmail.com				
	CONT	ACT INF	ORM	IATION (TECH	INICAL)				
8. Principal technical co Christopher Strickland	ontact				Phone number with area code 931-691-9313				
Mailing address (St./F 245 Red Hawk Lane	Rd./Hwy.)				Fax number with area code N/A				
City Winchester		State TN		Zip code 37398	1	Email address sweetandsunnyfarms@gmail.com			
	CON	NTACT IN	IFOR	MATION (BII	LING)				
9. Billing contact Megan Strickland					Phone number with area code 931-691-9191				
Mailing address (St./Rd./Hwy.) 245 Red Hawk Lane					Fax number with area code N/A				
City Winchester		State TN		Zip code 37398	Email addres sandsfirewoo	s dllc@gmail.com			

AIR CONTAMINANT SOURCE(S) INFORMATION 10. Description of air contaminant source(s) and Unique Source ID(s). List, identify, and briefly describe process emission sources, fuel burning installations, and incinerators that are contained in this application and include a Unique Source ID for each source. The Unique Source ID is a name/number/letter, which uniquely identifies the air contaminant source(s), like Boiler #1, Paint Line #1, Engine #1, etc. (see instructions for more details) Wood-fired kiln for drying of wood for firewood as a product. Provides radiant heat via hot water radiant piping to buildings for drying wood. Wood-fired Kiln #1 11. Is the air contaminant source(s) in a nonattainment area? If "Yes", then minor source BACT must be addressed. Yes No V 12. Normal Hours/Day Days/Week Weeks/Year Days/Year operation: 50 300 Dec. - Feb. 13. Percent annual March - May June – August Sept. - Nov. 30% 30% throughput 20% 20% TYPE OF PERMIT REQUESTED (check appropriate box) 14. Operating Date construction started Date completed Date of ownership change (if applicable) permit Last permit number(s) Emission Source Reference Number(s) Last permit number(s) Emission Source Reference Number(s) Construction I permit If you chose Construction permit above, then choose either New Construction, Modification, or Location Transfer New Construction | Starting date Completion date 1 Modification Date modification started or will start Date completed or will complete Location Transfer Transfer date Address of last location

New application. Application being submitted emissions as calculated indicate source is a considered a wood-fire boiler, 40 CFR 63 Submitted in the commercial, and Institutional Boundary in the commercial in th	n insignificant source of air enubrate in insignificant source of air enubrate in insignification is in insignification.	missions. However, as it can be
16. Comments		
Source is used for heating water which is pitreatment of wood for use as firewood. Fire used is pine (listed as white pine per Engine of 1/2 rick/day. Due to wood being planned length in order to best fit in fireplaces. As sifeet of wood within a full cord which is a 4 fapproximately 1/3 of a full cord. Emission factors from AP-42 Chapter 1.6 ar should be considered an insignificant source CFR 63 Subpart JJJJJJ National Emission Stan Institutional Boilers.	ewood and used pallets are busering Toolbox options). Source to be used as firewood, size ouch, rick would be considered feet high, 8 feet long, and 4 feat considered as no controls. The considered as no controls. The considered as no controls.	urned in the wood-fired kiln. All wood ce averages 1/3 rick/day with a maximum of wood would average 16 inches in a face cord and less than the 128 cubic et deep stack of wood. A face cord is Emission calculations indicate source it can be considered a wood-fire boiler, 40
	SIGNATURE	
Based upon information and belief formed mentioned facility, certify that the informat knowledge. As specified in TCA Section 39-	ion contained in this applicati	ion is accurate and true to the best of my
17. Signature (application must be signed	before it will be processed)	Date 04/07/2022
Signer's name (type or print)	Title	Phone number with area code
James Michael Strickland	CEO	931-446-6525
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15. Describe changes that have been made to this equipment or operation(s) since the last construction

or operating permit application:



DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF AIR POLLUTION CONTROL

William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243 Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION EMISSION POINT DESCRIPTION

	Type or print and submit for each stack or air contaminant source. Submit with the APC 100.										
	GENERAL IDENTIFICATION AND DESCRIPTION										
1.	Organization's	s le	gal name an	d SOS coi	ntr	ol number [as r	egistere	d with	the TN Secretary	of	f State (SOS)]
S&	S Firewood LLC	- 0	01276137								
	2. Unique Source ID (name/number/letter which uniquely identifies this air contaminant source, like Boiler #1) Nood-fired Kiln #1										
	3. Unique Emission Point ID (name/number/letter which uniquely identifies this emission point, like Stack #1) Wood-fired Kiln #1										
4.	Brief descript	ion	of air conta	minant se	our	ce (Attach a dia	gram if	approp	riate):		
	ood-fired kiln fo ildings for dryir			for firew	000	d as a product. F	Provides	radiant	t heat via hot wa	ter	r radiant piping to
5.	Emission poin	t	Latitude			Longitude		6. Dis	stance to neare:	st	property line (Ft.)
	location		35.180810			-86.209170		70 ft.			
	STACK AND EMISSION DATA										
7.	Stack or emission	He (F	eight above gr t.)	rade	l	Diameter (Ft.) Temperatu			1 1		Direction of exit (Up, lown or horizontal)
	point data: →	35	ft				~600		35%	U	lp
	Data at exit	Flo	ow (actual Ft. ³	/Min.)	Ve	elocity (Ft. /Sec.)		Moistu	re (Grains/Ft. ³)		Moisture (Percent)
	conditions: \rightarrow		39 CFM		9.2	226		ambier			ambient
	Data at standard conditions: →	Flo	ow (Dry std. F	t. ³ /Min.)	Ve	elocity (Ft. /Sec.)		Moisture (Grains/Ft. ³)			Moisture (Percent)
8.		evic	e and record	ling instr	um	ent (check all	that ap	ply):			
	Opacity		02	NO_X		Strip	Electr		Other (speci	_	No monitor
	monitor	n	nonitor	monitor		chart	dat <u>a l</u>	ogger	in comments	5)	(none)
Cu	emission limit	s. í nito	nclude opera oring the heat	ting parar	net	ers of control d	evice (fl	ow rate,	temperature, pr	res	re compliance with ssure drop, etc.). well as within the

10. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see

instructions for more details)

instructions for	more details	5)			-	-	~·····	·
Air contaminants	Average Emissions (Lbs./Hr.)	Maximum Emissions (Lbs./Hr.)	Concen- tration	Average Emissions (Ton/Yr.)	Potential Emissions (Ton/Yr.)	Emissions Estimation Method Code *	Control Devices *	Control Effi- ciency %
Particulate matter (PM)	0.1342	0.20	**	0.18	0.89	3		
Sulfur dioxide (SO ₂)	0.0084	0.01	***	0.01	0.06	3		
Carbon monoxide (CO)	0.2013	0.31	PPM	0.27	1.34	3		
Volatile organic compounds (VOC)	0.0057	0.01	PPM	0.01	0.04	3		
Nitrogen oxides (NO _x)	0.1644	0.25	PPM	0.22	1.09	3		
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)								
Lead (Pb)								
Greenhouse gases (CO ₂ equivalents)								
Hazardous air pollutant (specify) Formaldehyde	0.0015	0.0022		0.0020	0.0098	3		
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify)								
Other (specify)								
Other (specify)								
Other (specify)								

11. Comments

Source is used for heating water which is piped into greenhouse style building for providing radiant heat for heat treatment of wood for use as firewood. Firewood and used pallets are burned in the wood-fired kiln. All wood used is pine (listed as white pine per Engineering Toolbox options). Source averages 1/3 rick/day with a maximum of 1/2 rick/day. Due to wood being planned to be used as firewood, size of wood would average 16 inches in length in order to best fit in fireplaces. As such, rick would be considered a face cord and less than the 128 cubic feet of wood within a full cord which is a 4 feet high, 8 feet long, and 4 feet deep stack of wood. A face cord is approximately 1/3 of a full cord.

Emission factors from AP-42 Chapter 1.6 and considered as no controls. Emission calculations indicate source should be considered an insignificant source of air emissions. However, it can be considered a wood-fire boiler, 40 CFR 63 Subpart JJJJJJ National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers.

SIGNATURE

If this form is being submitted at the same time as an APC 100 form, then a signature is not required on this form. Date this form regardless of whether a signature is provided. If this form is NOT being submitted at the same time as an APC 100 form, then a signature is required.

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

12. Signature		Date 05/31/2022
Signer's name (type or print) James Michael Strickland	Title CEO	Phone number with area code 931-446-6525

- * Refer to the tables in the instructions for estimation method and control device codes.
- ** Exit gas particulate matter concentration units: Process Grains/Dry Standard Ft 3 (70 0 F), Wood fired boilers Grains/Dry Standard Ft 3 (70 0 F), all other boilers Lbs. /Million BTU heat input.
- *** Exit gas sulfur dioxide concentrations units: Process PPM by volume, dry bases, and boilers Lbs. /Million BTU heat input



DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF AIR POLLUTION CONTROL

William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243 Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION PROCESS OR FUEL BURNING SOURCE DESCRIPTION

· · · · · · · · · · · · · · · · · · ·									
Type or print. Submit with the APC 100.									
GENERAL IDENTIFICATION AND DESCRIPTION									
 1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)] 2. Emission Source Reference Number S&S Firewood LLC - 001276137 									
3. Is this air contaminant source subject to an NSPS or NESHAP rule? Yes No									
If Yes, list rule citation, including F	If Yes, list rule citation, including Part, Subpart, and applicable Sections:								
40 CFR 63 Subpart JJJJJJ NESHAP for Industrial, Commercial, and Institutional Boilers									
4. Unique Source ID (see instruction	ns)	5. Unique Emission Point	t ID (see ins	tructions)					
Wood-fired Kiln #1		Wood-fired Kiln #1							
6. Description of air contaminant	source								
Wood-fired kiln for drying of wood for	or firewood as a prod	duct. Provides radiant heat v	/ia hot wate	r radiant piping					
to buildings for drying wood.									
- tig									
7. Type of air contaminant source	(Check only one op	tion to the right)		•					
Process Emission Source: For each p		irce, submit a separate appli	ication.						
(Check at right and complete lines 8,				L					
Process Emission Source with in pro-									
heated. For each process emission s	ource, submit a sepa	arate application. (Check at r	right and						
complete lines 8 through 14) Non-Process fuel burning source: Pro	oducts of combustio	in do not contact materials h	nested						
Complete this form for each boiler o				V					
Description Form (APC 101) for each		·							
	S EMISSION SOURC	E DESCRIPTION AND DATA							
8. Type of operation:	. 🗔	Normal batch time	1	mal batches/day					
Continuous	Batch 🗸	72 hours		every 3 days					
9. Process material inputs and	Diagram	Input rates	(pounds/ho						
In-process solid fuels	reference	Design		Actual					
A. Wood									
В.									
C. 1									
D.									
E.									
F.									
G.									
Totals									

^{*} A simple process flow diagram must be attached.

DECCDI	DTION OF B	OUE	D RIIDNE	P FNGIN	IE OR OTH	FR FILE	BURNING S	าเเ	RCF	
10. Boiler or burner da										
Serial Number	ica. (Compi	ete III	163 10 (111)		of firing**		m for each bo	110	i, burner, etc.,	
							t to be started by someone manually)			
Rated horsepower		Rate	ed input c	apacity (1	0 ⁶ BTU/Hr.)	⁶ BTU/Hr.) Other rating (specify capacity and				
N/A			0.51	MMBTU/				N/		
Date constructed set in place where curr 01/01/2022	1 100 100	te ma	nufacture N/A	·d	Date of las		cation (explain longer stack (n comments below) 22/2022	
** Source with a common stack will have the same stack number. *** Cyclone, spreader (with or without reinjection), pulverized (wet or dry bottom, with or without reinjection), other stoker (specify type, hand fired, automatic, or other type (describe below in comments).										
							BURNING SO			
11. Fuel data: (Complet								1000		
Primary fuel type (s							pe(s) (specify)			
Fuels used	Annual us	age	Hourl	y usage	%	%	BTU value		(For APC use only)	
			Design	Average	Sulfur	Ash	of fuel		SCC code	
Natural gas:	10 ⁶ Cu. Ft.		Cu. Ft.	Cu. Ft.	///////////////////////////////////////	1	1,000			
#2 Fuel oil:	10 ³ Gal.		Gal.	Gal.		1/1//				
#5 Fuel oil:	10 ³ Gal.		Gal.	Gal.		1/1/1				
#6 Fuel oil:	10 ³ Gal.		Gal.	Gal.		1/1/1				
Coal:	Tons		Lbs.	Lbs.						
Wood:	Tons 638.55	5	Lbs. 79.63	Lbs. 52.56	///////////////////////////////////////	1	6383/lb			
Liquid propane:	10 ³ Gal.		Gal.	Gal.	////////	/////	85,000			
Other (specify type & units):										
12. If Wood is used as 0% bark	a fuel, spec	ify t	ypes and	estimate	percent by	weigh	t of bark			
13. If Wood is used wit	th other fu	els, s	pecify pe	rcent by	weight of v	vood ch	arged to the	bu	irner.	

14. Comments

Source is used for heating water which is piped into greenhouse style building for providing radiant heat for heat treatment of wood for use as firewood. Firewood and used pallets are burned in the wood-fired kiln. All wood used is pine (listed as white pine per Engineering Toolbox options). Source averages 1/3 rick/day with a maximum of 1/2 rick/day. Due to wood being planned to be used as firewood, size of wood would average 16 inches in length in order to best fit in fireplaces. As such, rick would be considered a face cord and less than the 128 cubic feet of wood within a full cord which is a 4 feet high, 8 feet long, and 4 feet deep stack of wood. A face cord is approximately 1/3 of a full cord.

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15. Signature		Date
Jame Michael Street		04/07/2022
Signer's name (type or print)	Title	Phone number with area code
James Michael Strickland	CEO	931-446-6525

Company: S&S Firewood LLC Wood fired boiler System: Boiler #1 Wood kiln dryer Material burned Wood waste

Hours of operation 9.00 Hours/Day Facility operates 10 hours/day, Boilers are run 24 hours/day. Boilers are interchangeably run in low fire hold, rotating on a monthly basis.

Hour of operation 2700.00 hours/year Facility operates 6 days/week, 50 weeks/year

Avg. Rate of fuel consumption: 0.33 Rick/day Max wood is 1/2 rick/day. Avg is 1/3 (ranges from 1/2 to 1/4 rick/day)

Rick to Cord conversion 0.33 cord per rick A cord is 128 cubic feet of wood, usually 4 feet x 8 feet x 4 feet. A rick is usually 4 feet x 8 feet, but often only 16 inches deep so as to fit into a fireplace. Avg. Rate of fuel consumption: 0.11 cord/day

Avg. Rate of fuel consumption: 0.24 Ton/Day 0.03 Ton/hour

Avg. Rate of fuel consumption:

Total yearly fuel usage: 638.55 tons of wood/year

Wood Heating value 0.0064 MMBTU/lb. Calculated with values from https://www.engineeringtoolbox.com/wood-combustion-heat-d_372.html

Pine weighs 2.15 tons/cord.

Boiler rating hp 0.51 MMBTU/hr. Boiler rating

Max wood usage 0.04 tons/hr. Based on amount used and weight of pine/cord (https://www.revenue.nh.gov/mun-prop/property/documents/timber-conversion-formulas.pdf]

Wood is logs or used pallets, no bark with a 8% moisture content. This is considered dry wood. Wood is Pine

Heating value Heating value

Wood MMBTU/cord Weight/cord MMBTU/lb. Percentage of use

100% MMBTU/cord: https://www.engineeringtoolbox.com/wood-combustion-heat-d_372.html Pine, White 14.3 2240 0.0064

Emissions (factors from AP-42 1.6 Wood Residue Combustion. Dry wood, no controls)

			Average				
	Emission factor	Emission Factor	emission	Average yearly	Max Emissons	Potential to	Emit
	(lbs./MMBTU)	(lbs./ton of wood)	(lbs./hr.)	emissions (tons/year)	(lbs./hr.)	(Tons/year)	
Particulates	0.400	5.1071	0.134204365	0.18		0.20	0.89
NOx	0.490	6.2563	0.164400347	0.22		0.25	1.09
SO2	0.025	0.3192	0.008387773	0.01		0.01	0.06
co	0.600	7.6607	0.201306548	0.27		0.31	1.34
VOC	0.017	0.2171	0.005703686	0.01		0.01	0.04
CO2	195.000	2489.7321	65.42462798	88.32	9	9.13	434.18
Total Criteria pollutants				0.69			3.41

Average

Hazardous Air Pollutants

			Average			
	Emission factor	Emission Factor	emission	Average yearly	Max Emissons	Potential to Emit
	(lbs./MMBTU)	(lbs./ton of wood)	(lbs./hr.)		(lbs./hr.)	(Tons/year)
Acetaldehyde	0.0008	0.0106	0.0003	0.0004	0.0004	0.0018
Acetophenone	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Acrolein	0.0040	0.0511	0.0013	0.0018	0.0020	0.0089
Benzene	0.0042	0.0536		0.0019	0.0021	0.0094
Bis-(2-Ethylhexyl) phthalate	0.0000	0.0000		0.0000	0.0000	0.0000
Carbon tetrachloride	0.0000	0.0006	0.0000	0.0000	0.0000	0.0001
Chlorine	0.0008	0.0101	0.0003	0.0004	0.0004	0.0018
Chlorobenzene	0.0000	0.0004	0.0000	0.0000	0.0000	0.0001
Chloroform	0.0000	0.0004	0.0000	0.0000	0.0000	0.0001
2,4-Dinitrophenol	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ethylbenzene	0.0000	0.0004	0.0000	0.0000	0.0000	0.0001
Formaldehyde	0.0044	0.0562	0.0015	0.0020	0.0022	0.0098
Ethyl dibromide	0.0001	0.0007	0.0000	0.0000	0.0000	0.0001
Naphthalene	0.0001	0.0012	0.0000	0.0000	0.0000	0.0002
Pentachlorophenol	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Phenol	0.0001	0.0007	0.0000	0.0000	0.0000	0.0001
Propionaldehyde	0.0001	0.0008	0.0000	0.0000	0.0000	0.0001
Styrene	0.0019	0.0243	0.0006	0.0009	0.0010	0.0042
Toluene	0.0009	0.0117	0.0003	0.0004	0.0005	0.0020
Methyl Chloroform	0.0000	0.0004	0.0000	0.0000	0.0000	0.0001
2,4,6 Trichlorophenol	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vinyl Chloride	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000
Xylene	0.0000	0.0003	0.0000	0.0000	0.0000	0.0001
Arsenic	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000
Beryllium	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cadmium	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Chromium	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000
Cobalt	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Lead	0.0000	0.0006	0.0000	0.0000	0.0000	0.0001
Manganese	0.0016	0.0204	0.0005	0.0007	0.0008	0.0036
Mercury	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nickel	0.0000	0.0004	0.0000	0.0000	0.0000	0.0001
Antimony	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Selenium	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Formaldehyde is highest single HAP emitted Potential to emit: 19.59 lbs.