STATEMENT OF BASIS

For the issuance of Air Permit # 0427-AOP-R14 AFIN: 06-00014

1. PERMITTING AUTHORITY:

Division of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT:

AHF, LLC d/b/a AHF Products 688 Hwy 278 Bypass Warren, Arkansas 71671

3. PERMIT WRITER:

Sterling Powers

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Other Millwork (including Flooring)

NAICS Code: 321918

5. ALL SUBMITTALS:

The following is a list of ALL permit applications included in this permit revision.

Date of Application	Type of Application	Short Description of Any Changes
	(New, Renewal, Modification,	That Would Be Considered New or
	Deminimis/Minor Mod, or	Modified Emissions
	Administrative Amendment)	
5/8/2023	Renewal	No Changes to permitted emissions.

6. REVIEWER'S NOTES:

AHF, LLC d/b/a AHF Products, formerly Armstrong Flooring, Inc., formerly Robbins Hardwood Flooring, Inc., is located at 688 Highway 278 Bypass, Warren, Arkansas. The facility manufactures finished hardwood flooring. This permit renewal will add various units to the Insignificant Activities List, including diesel tanks, hydraulic fluid tanks, a chemical foam system, a stick planer, and welding vents; and add a CAM Plan for one of the wood-fired boilers (SN-13). Some HAPs from the sources were reorganized in format and combined into Total HAPs. Permitted emissions are unchanged.

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7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

The last inspection was 07/20/2022. There were no issues found within the facility.

8. PSD/GHG APPLICABILITY:

- a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N If yes, were GHG emission increases significant?
- b) Is the facility categorized as a major source for PSD? N
- Single pollutant ≥ 100 tpy and on the list of 28 or single pollutant ≥ 250 tpy and not on list

If yes for 8(b), explain why this permit modification is not PSD.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
13 and 41	PM	NSPS Subpart Dc, Subpart 64 (CAM)
13 and 41	-	NESHAP Subpart JJJJJJ
44 and 51	-	NESHAP Subpart ZZZZ
51	-	NSPS Subpart JJJJ

10. PERMIT SHIELD – TITLE V PERMITS ONLY:

Did the facility request a permit shield in this application? N (Note - permit shields are not allowed to be added, but existing ones can remain, for minor modification applications or any Rule 18 requirement.)

If yes, are applicable requirements included and specifically identified in the permit? N If not, explain why.

For any requested inapplicable regulation in the permit shield, explain the reason why it is not applicable in the table below.

Source	Inapplicable Regulation	Reason
	N/A	

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11. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

12. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

a) NAAQS

A NAAQS evaluation is not required under the Arkansas State Implementation Plan, National Ambient Air Quality Standards, Infrastructure SIPs and NAAQS SIP per Ark. Code Ann. § 8-4-318, dated March 2017 and the DEQ Air Permit Screening Modeling Instructions.

b) Non-Criteria Pollutants:

1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Department has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Pollutant	TLV (mg/m ³)	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
Acrolein	0.23	0.0253	0.36	N
Benzene	1.59	0.175	0.37	N
Beryllium	0.004	0.0004	8.98E-05	Y
Cadmium	0.46	0.051	3.34E-04	Y
Chlorine	1.45	0.16	0.08	Y
Chromium VI	0.01	0.011	2.85E-04	Y
Ethyl Benzene	434	47.74	3.03	Y
Ethylene Glycol Mono Propyl Ether	85.2*	9.372	3.00	Y
Formaldehyde	1.5	0.165	0.41	N
Hydrochloric Acid	2.98	0.3278	1.56	N

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Pollutant	TLV (mg/m³)	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
MIBK	205	22.55	3.0	Y
Manganese	0.02	0.0022	0.26	N
Mercury	0.025	0.00275	2.85E-4	Y
Phenol	19	2.09	0.03	Y
Toluene	188.0	20.68	3.10	Y
Xylene	434.0	47.74	3.04	Y
Styrene	85.2	9.37	0.18	Y
Pb	0.05	0.0055	0.02	N
Cobalt	0.02	0.0022	0.27	N
Chromium (II)	0.5	0.055	1.61	N

^{*} No TLV listed in ACGIH. Haz chem. Desk Ref. Pg 1040.

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Department to be one one-hundredth of the Threshold Limit Value as listed by the ACGIH.

Pollutant	PAIL (μ g/m ³) = 1/100 of Threshold Limit Value	Modeled Concentration (µg/m³)*	Pass?
Acrolein	2.3	0.384	Y
Benzene	15.9	0.391	Y
Pb	0.5	0.008	Y
Formaldehyde	15	0.417	Y
Hydrogen Chloride	29.8	1.75	Y
Cobalt	0.2	0.096	Y
Chromium (II)	5.0	0.628	Y
Manganese	0.2	0.105	Y

^{*} Emissions from SN-44 and SN-51 are not modeled because they are limited-use engines.

^{2&}lt;sup>nd</sup> Tier Screening (PAIL)

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c) H₂S Modeling:

The facility does not emit any H_2S emissions.

13. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01-12	MSDS	VOC: 7.0 lb VOC/gal Chromium: 0.85 lb/gal Cobalt: 0.14 lb/gal Manganese: 0.06 lb/gal	None	N/A	Max coat usage 19 gal/hr. maximum experimental coating usage: 4220 gal/month 8.13 hours/day 30 days /month
13	PM, CO factor through testing SO ₂ , VOC, NO _x : AP-42 Table 1.6-2, 4	0.706 lb/MMBtu PM/PM ₁₀ 0.025 lb/MMBtu SO ₂ 0.331 lb/MMBtu CO 0.017 lb/MMBtu PM condensable 0.039 lb/MMBtu VOC 0.49 lb/MMBtu NO _X 4.8E-05 lb/MMBtu Lead	cyclone with fly- ash reinjection	50	2011 stack averages with 20% safety factor. No reduction in particulate HAPs assumed 8760 hours
37 & 38	Baghouse exhaust PM concentration	0.006 gr/scf	Baghouses	99%	BH-1 49,250 scfm BH-2 27,000 scfm BH-3 45,000 scfm
41	PM, CO factor through testing SO ₂ , VOC, NO _x : AP-42	0.0022 lb/MMBtu PM 0.21 lb/MMBtu CO 0.017 lb/MMBtu PM condensable	ESP and fly-ash reinjection	96.4	2011 stack averages with 20% safety factor. No reduction in particulate HAPs assumed
14-29 & 46-50	PM, VOC: Arkansas recommended emission factors	0.0002 lb/board feet PM/PM ₁₀ 0.001 lb/board VOC	None	N/A	1.0 lb VOC/ 10 ⁶ bdft 8760 hours

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
43	AP-42 10.4-2 350 trucks/month 2 truck/hr 0.4 lb PM/ton		Baghouse	75% equipment 80% building contained	22.5 ton/truck capacity, 2.0 lb/ton
44	AP-42 3.2 and 3.3	Units in lb/MMBtu PM/PM ₁₀ : 0.31 SO ₂ : 0.29 VOC: 0.36 CO: 0.95 NO _x : 4.41	-	-	2.67 MMBtu/hr 500 hours per year operation
	AP-42 3.2	Units in lb/MMBtu PM/PM ₁₀ : 0.01 SO ₂ : 5.88e-4			0.59 MMBtu/hr
51	NSPS JJJJ	In g/HP-hr VOC: 1.0 CO: 4.0 NOx: 2.0	-	-	500 hours per year operation

14. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
13 & 41	РМ,СО	1, 5,10	5 years	Verify estimates and control effectiveness of particulate control
13 & 41	NO_x	10E	Initial	Verify emission rates.
13 & 41	Energy assessment	-	One time	§63.11201

15. MONITORING OR CEMS:

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

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SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
13	Opacity	Observer	Daily	Y
41	Secondary Current and Voltage	N/A	Daily	Y
44 and 51	Hours of Operation	Non-resettable hour meter	As necessary	N

16. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
01-12	VOC content	7.0 lb/gal	As necessary	Y
01-12	VOC Usage	189.9 tpy	Monthly	Y
01-12	HAPs Usage	Plantwide Total limit	Monthly	Y
01-12	HAP content for coating, solvent, and adhesive material	Units in lb/gal Ethyl benzene = 0.16 Ethylene Glycol Mono Propyl Ether = 0.16 Toluene = 0.16 Xylene = 0.16 Methyl Isobutyl Ketone = 0.16 Chromium = 0.85 Cobalt = 0.14 Manganese = 0.06	As necessary	N
13	Wood Waste Usage limits	15,600 tons/yr	Monthly	Y
13	Opacity	No Visible Emissions	Daily	Y
41	Wood Waste Usage Limits	31,300 tons/yr	Monthly	Y
41	ESP Operating Parameters	10 mADC 20 kV	Daily	Y
13 & 41	Records of biennial tune- ups	-	No more than 25 months after the previous tune-up	N

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
14-29 & 46-50	Hardwood Lumber Dried	76,470,000 board feet/yr	Monthly	Y
43	Trucks Loaded	350 trucks/month	Monthly	N
44	Hours of Operation	500 hours per 12-month rolling period	As necessary	N
44	Records of Maintenance	See Specific Conditions #50 and #51	As necessary	N
51	Hours of Operation	500 hours per calendar year	As necessary	N

17. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
37	5%	Reg.18.501	Daily Observation
38	5%	Reg.18.501	Daily Observation
14-29 & 46-50	10%	Reg.18.501	Weekly Observation
13 & 41	20%	Reg.19.304 and 40 C.F.R. § 60.43c	Daily Observation
43	10%	Reg.18.501	Observation when Loading
44	20%	Reg.18.501	Observation during operation
51	5%	Reg.18.501	Observation during operation

18. DELETED CONDITIONS:

Former SC	Justification for removal
	N/A

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19. GROUP A INSIGNIFICANT ACTIVITIES:

The following is a list of Insignificant Activities including revisions by this permit.

	Group A			missions	ons (tpy)			
Source Name	Category	PM/	SO_2	VOC	СО	NO _x	H	IAPs
	<i>2</i> ,	PM ₁₀	302	VOC		NO _x	Single	Total
High Mass Oven	A-1	0.004	0.003	0.003	0.043	0.052		9.73E-04
Drums and small containers for coating and cleanup solvent storage and handling	A-2			-				
Drums and small containers of oil	A-2							
Diesel Tank (1000 gal)	A-3							
DEF Fluid Tank (330 gal)	A-3							
Motor Oil (15w-40)	A-3							
Lico Hydraulic Fluid Tank (150 gal)	A-3							
Tilt Hydraulic Fluid Tank (100 gal)	A-3							
Tilt Hydraulic Fluid Tank (100 gal)	A-3							
Searcy Stacker Hydraulic Fluid Tank (150 gal)	A-3							
Truck Bin Hydraulic Fluid Tank (100 gal)	A-3							
Propane Tank (800 gal)	A-3							
Gasoline Tanks (5 gal)	A-4							
Coating and Stain Empty Drums	A-8							
Small (11 gallon) Solvent Distillation Unit	A-11			0.065				
Chemical Foam System	A-12							
Chemical storage room and exhaust fan	A-13			0.016				

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	Group A	Emissions (tpy)						
	Category	PM/	SO_2	VOC	СО	NO _x	HAPs	
		PM_{10}					Single	Total
Stick Planer	A-13	0.014						
Rubber Roll Turning	A-13							
Green Planer	A-13	0.014						

20. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

The following is a list of all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #
0427-AOP-R13



Fee Calculation for Major Source

Revised 03-11-16

Facility Name: AHF Products LLC

Permit Number:

AFIN:

\$/ton factor	Renewal N	28.14		Annual Chargeable Emissions (tpy)	602.43	
Permit Type	Changes	10		Permit Fee \$	0	
M. M. III. d. F. A		500				
Minor Modification Fee \$		500				
Minimum Modification Fee \$		1000				
Renewal with Minor Modification \$		500				
Check if Facility Holds an Active Minor Source or Minor Source General Permit	~					
If Hold Active Permit, Amt of Last Annual Air Permit Total Permit Fee Chargeable Emissions	Invoice \$		400			
(tpy)		0				

HAPs not included in VOC or PM:

Initial Title V Permit Fee Chargeable

Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

Air Contaminants:

Emissions (tpy)

All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

					Permit	
					Fee	Annual
				Change		
	Classic is	014	Ni	Change	Chargea	Chargea
	Check if	Old	New	in	ble	ble
	Chargeable	Per	Per	Emissi	Emissio	Emissio
Pollutant (tpy)	Emission	mit	mit	ons	ns	ns
		135.	135.			
PM		9	9	0		
		135.	135.			
PM_{10}		9	9	0	0	135.9
PM _{2.5}		0	0	0		
SO_2		9.3	9.3	0	0	9.3
		243.	243.			
VOC		2	2	0	0	243.2
		102.	102.			
СО		4	4	0		
		178.	178.			
NO_X		4	4	0	0	178.4
Lead		0.03	0.03	0		

Total HAPs		23.7	23.7	0		
Chlorine	~	0.29	0.29	0	0	0.29
Hydrochloric Acid	~	6.84	6.84	0	0	6.84
Cobalt	~	9.5	9.5	0	0	9.5
Maganese	~	9.5	9.5	0	0	9.5
Chromium	~	9.5	9.5	0	0	9.5
Acrolein		9.5	9.5	0		