STATEMENT OF BASIS

For the issuance of Air Permit # 0427-AOP-R13 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)	
12/6/2022	Modification	Adds metal HAP emissions (chromium,
		cobalt, manganese) to the Finishing Line
		(SN-01 to 12)

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 modification adds metal HAP emissions (chromium, cobalt, and manganese) to the Finishing Line (SN-01 to 12), adding 1.01 lb/hr Total HAPs. Because the facility has a HAP combined annual limit, permitted annual 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
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/m³)	PAER (lb/hr) = 0.11 × 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	2.98	0.3278	1.56	N

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Pollutant	TLV (mg/m ³)	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
Acid				
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.

2nd Tier Screening (PAIL)

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 $(\mu g/m^3) = 1/100$ 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

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c) H₂S Modeling:

The facility does not emit any H₂S 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: Mass Chromium: 0.85 lb/gal Cobalt: 0.14 lb/gal Manganese: 0.06 lb/gal	None	N/A	Max coat usage 19 gal/hr.
13	PM, CO factor through testing SO ₂ , VOC, NO _x : AP-42	0.7056 lb/MMBtu PM 0.2856 lb/MMBtu CO 0.017 lb/MMBtu PM condensable	cyclone with flyash reinjection	50	2011 stack averages with 20% safety factor. No reduction in particulate HAPs assumed
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 flyash 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	various	None	N/A	1.0 lb VOC/ 10 ⁶ bdft
43	AP-42 10.4-2	350 trucks/month 2 truck/hr	Baghouse	75% equipment 80% building contained	22.5 ton/truck capacity, 2.0 lb/ton

 $[\]ast$ Emissions from SN-44 and SN-51 are not modeled because they are limited-use engines.

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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
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
51	AP-42 3.2 NSPS JJJJ	Units in lb/MMBtu PM/PM ₁₀ : 0.01 SO ₂ : 5.88e-4 In g/HP-hr VOC: 1.0 CO: 4.0	-	-	0.59 MMBtu/hr 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.)

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
41	Secondary Current and Voltage	N/A	Daily	Y

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SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
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	Hourly usage of VOC/HAP-containing materials	19 gallons total for all VOC/HAP-containing material per hour	Daily	N
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
01-12	Ethoxyethoxyethylcrylate content for primers	0.5 lb/gal	As necessary	N
13	Wood Waste Usage limits	15,600 tons/yr	Monthly	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	nmber Dried 76,470,000 board feet/yr		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	tenance See Specific Conditions #50 and #51		N
51	Hours of Operation	500 hours per calendar year	As necessary	N

17. OPACITY:

SN	SN Opacity		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

19. GROUP A INSIGNIFICANT ACTIVITIES:

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

	Group A	Emissions (tpy)							
Source Name	Category	PM/ SO ₂		VOC	CO	NO_x	HAPs		
		PM_{10}	SO_2	VOC	CO	NO_X	Single	Total	
1,000 gallon diesel tank	A-3								
Chemical storage	A-13	-		0.016					

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	Group A	Emissions (tpy)							
Source Name	Category	PM/	$-1 SO_2 + VOC$		VOC CO	NO_x	HAPs		
		PM_{10}			CO	NOx	Single	Total	
room and exhaust fan									
Small (11 gallon) Solvent Distillation Unit	A-11			0.065					
Drums and small containers for coating and cleanup solvent storage and handling	A-2		1					1	
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-R12	



Fee Calculation for Major Source

Revised 03-11-

573.93

Facility Name: AHF Products Permit Number: 0427-AOP-R13

AFIN: 06-00014

Annual Chargeable Emissions
(top)

Annual Chargeable Emissions
(tpv)

\$/ton factor 27.27 (tp Modificati

Permit Type on Permit Fee \$ 1000

Minor Modification Fee \$500Minimum Modification Fee \$1000Renewal 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 Invoice \$

Total Permit Fee Chargeable Emissions (tpy) 0

Initial Title V Permit Fee Chargeable

Emissions (tpy)

HAPs not included in VOC or PM: Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene

Chloride, Phosphine, Tetrachloroethylene, Titanium

Tetrachloride

Air Contaminants: All air contaminants are chargeable unless they are included in

other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

	Check if	Old	New	Change in	Permit Fee Chargeab le	Annual Chargeab le
Pollutant (tpy)	Chargeabl e Emission	Perm it	Perm it	Emissio ns	Emission s	Emission s
PM		135.9	135.9	0		
PM_{10}		135.9	135.9	0	0	135.9
PM _{2.5}		0	0	0		
SO_2		9.3	9.3	0	0	9.3
VOC		243.2	243.2	0	0	243.2
СО		102.4	102.4	0		
NO_X		178.4	178.4	0	0	178.4
Lead		0.03	0.03	0		
Total HAPs		23.75	23.75	0		
Chlorine	~	0.29	0.29	0	0	0.29
Hydrochloric Acid	~	6.84	6.84	0	0	6.84