STATEMENT OF BASIS

For the issuance of Air Permit # 2348-AOP-R5 AFIN: 70-00032

1. PERMITTING AUTHORITY:

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

2. APPLICANT:

Anthony Forest Products Company, LLC 5482 Junction City Highway El Dorado, Arkansas 71730

3. PERMIT WRITER:

Sterling Powers

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Sawmills NAICS Code: 321113

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)	
8/18/2025	Minor Mod	• Remove SN-17
		 Add SN-18 fire pump engine

6. REVIEWER'S NOTES:

Anthony Forest Products Company, LLC (AFP) owns and operates a sawmill located at 5428 Junction City Hwy, in Union County, Arkansas. This permit modification proposes to remove SN-17 (diesel 200 BHP Emergency Fire Pump Engine) and replace it with the new unit SN-18, a diesel 197 BHP Emergency Fire Pump Engine, a newer version of the same engine.

Permitted emissions will decrease by 0.1 tpy SO₂.

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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.

Last inspection was August 20, 2024. No violations were reported or found during the inspection.

8. PSD/GHG APPLICABILITY:

- a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? Y If yes, were GHG emission increases significant? N
- b) Is the facility categorized as a major source for PSD? Y
- 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.

A PSD analysis demonstrates that the emissions do not exceed the PSD significant emission rate (SER) for any NSR regulated pollutants.

Actual-to-Projected- Actual (ATPAT)	PM	PM10	PM2.5	SO2	VOC	СО	NOX
Total BAE	0	0	0	0	0	0	0
Total PAE	0.02	0.02	0.02	0.1	0.32	0.28	0.32
SER Threshold	25	15	10	40	40	100	40
Pass? Y/N	Y	Y	Y	Y	Y	Y	Y

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
01, 02	Initial Notification is the only requirement.	NESHAP Subpart DDDD
18	HAPs	NESHAP Subpart ZZZZ NESHAP Subpart IIII

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10. UNCONSTRUCTED SOURCES:

I I a a a a a stant a d	Permit	Extension	Extension	If Greater than 18 Months without
Unconstructed	Approval	Requested	Approval	Approval, List Reason for
Source	Date	Date	Date	Continued Inclusion in Permit
N/A				

11. 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/A 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		

12. COMPLIANCE ASSURANCE MONITORING (CAM) – TITLE V PERMITS ONLY:

List sources potentially subject to CAM because they use a control device to achieve compliance and have pre-control emissions of at least 100 percent of the major source level. List the pollutant of concern and a brief summary of the CAM plan (temperature monitoring, CEMs, opacity monitoring, etc.) and frequency requirements of § 64.

Source	Pollutant Controlled	Cite Exemption or CAM Plan Monitoring and Frequency
N/A		

13. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

14. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

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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 × TLV	Proposed lb/hr	Pass?
Acrolein ²	0.2292	0.0252	0.29	Fail
Formaldehyde	1.5	0.165	0.71	Fail
Methanol ¹	262.08	28.829	7.38	Pass
POM ²	0.200	0.022	1.41E-04	Pass
Selenium ²	0.200	0.022	3.18E-06	Pass

¹ Annual emission greater than 10 tpy

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	2.292	2.28975	Yes
Formaldehyde	15.00	5.64144	Yes

² Under 1 mg/m³ TLV

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15. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
01, 02	ADEQ Memo: VOC emissions from Lumber Drying Kilns from T Rheaume dated 10/31/2014 AP-42 Tables 1.4- 1, -2, -3 Natural Gas	BACT Limit: 3.8 lb VOC/MBF ¹ EF lb/10 ⁶ scf BACT PM: 7.6 SO ₂ : 0.6 CO: 84 NO _X : 50 Formaldehyde: 7.50E-02 Selenium: 2.40E-05 POM: 8.82E-05	None	N/A	3 kilns limited by throughput: 315 MMBF/yr Each Kiln 18.5 MBF/hr x 3.8 lb VOC/MBF = lb VOC/hr 45 MMBtu/hr Low NO _X Burners To convert from lb/10 ⁶ scf to lb/MMBtu divide by 1020. ¹ Includes natural gas VOC
01, 02,	Assume $PM_{10} = PM$ NCDENR Wood Kiln Emission Calculation Factor Sheet for Softwood	Lb/MBF BACT Limit: PM/ PM ₁₀ : 0.022 Acrolein: 0.0075 Methanol: 0.199 Formaldehyde: 0.0183	None	N/A	Lumber Drying Kilns Max Annual Thruput = 315 MMBF/yr Max Hourly Thruput = 18.5 MBF/hr @ SN-01, 02, and 03
04	ADEQ Memo from CHurt to TRheaume dated 08/22/2003 and NC-DENR 1 TCEQ Wood Ind. EF, App A3	$\frac{\text{lb/ton log Thruput}}{\text{BACT Limit PM: 0.02}}$ $PM_{10}\text{: 0.0004}$ $(PM_{10} = 2\% \text{ PM})$	95%1	Enclosed Hood	1,417,500 tpy 405 tph max Log Thruput @ 4.5 tons/MBF
05	AP-42 Sec 10.3-1	lb/ton log Throughput BACT Limit PM: 0.35 PM ₁₀ : 0.007 (PM ₁₀ = 2% PM)	90%1	Sawmill located	1,455,300 tpy 378 tph max

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SN	Emission Factor Source (AP-42, testing, etc.) Wood Ind. EF, App A3	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff. in Building	Comments log Thruput @4.2
	Cyclone			3	tons/MBF
06	Air flow rates and outlet grain loading based on January 2020 Renewal permit application. Retesting is being required because of age of test and equipment (20 years).	Planer Mill - EF based on air flow = 77,280 dscfm outlet = 0.00004 gr/scf BACT PM: 0.004 gr/dscf PM ₁₀ : 0.0274 lb/hr, 1.198 tpy PM: 0.278 lb/hr, 1.219 tpy	Cyclone	99.99%	1.2x safety factor built in
09	AP-42 13.2.2.2. Eq. 1a ¹ (11/06) and AP-42 13.2.2.1 Eq. 1 ² (1/11)	'Haul Roads' Unpaved¹ s: 8.4 W: varies k: 4.9 (PM) k: 1.5 (PM ₁₀) k: 0.15 (PM _{2.5}) a: 0.70 (PM) a: 0.90 (PM _{10 & 2.5}) b: 0.45and Paved Roads² k: 0.011 (PM) k: 0.0022 (PM ₁₀) k: 0.00054 (PM _{2.5}) sL: 8.2 W: varies	Road Watering Plan	90%	E = k (s/12) ^a x (W/3) ^b Eq 1a UNPAVED where E = size- specific EF (lb/VMT) s = surface material silt content (%) W = mean vehicle wt. (tons) M = surface mat 'l moisture content (%) S = mean vehicle speed (mph) C = EF for 1980's vehicle fleet exhaust, brake and tire wear. E = k (sL)0.91 x (W)1.02 Equation (1)PAVED where: E = PM emission factor (lb/VMT), k = particle size multiplier

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
					sL = road surface silt loading (g/m²), and W = ave wt. (tons) of vehicles traveling road.
11	AP-42 10.3-1	Lb/ton BACT PM: 0.02 PM ₁₀ : 0.00044 (incl 10% safety factor)	None	N/A	'Material Processing' Fugitive emissions from Debarking and Chipping
12	Pile handling – AP-42 13.2.4 Wind erosion - AP-42 13.2.5	Bark Pile PM (lb/hr) Handling: 0.00015 Sawdust Pile (lb/hr) Handling: 0.00012 Wind Erosion: 1.89 Sawdust Total: 1.90 Chip Pile PM (lb/hr) Handling: 0.0015 Wind Erosion: 2.43	None	N/A	'Storage Piles' By-product sold as dry material
13	ADEQ Emission Factors outlined in 8/22/2003 memo from CHurt to TRheaume	Dried Shavings Lb/ton Storage BACT PM: 0.0011 PM ₁₀ : 0.00009 Loadout BACT PM: 0.0022 PM ₁₀ : 0.00018	None	N/A	'Storage Bin' Based on permitted annual throughput Conservative estimate 75,000 tpy woodwaste generated
14	TANKS 4.0.9d	Oil	None	None	11 light color Tanks
15	TANKS 4.0.9d	Diesel fuel	None	None	2 light color Tanks
16	TANKS 4.0.9d HAP speciation factors from EPA document "Gasoline	Gasoline <u>HAPs to VOC ratio by wt</u> . Total HAPs: 23%	None	None	1 light color Tank

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
	Distribution Industry"				
18	AP-42, Table 3.3-1	PM: 0.2 g/kw-hr PM ₁₀ : 0.2 g/kw-hr VOC: 4.0 g/kw-hr NOx: 4.0 g/kw-hr CO: 3.5 g/kw-hr Lb/MMBtu Acrolein: 9.25E-05 Benzene: 9.33E-04 Formaldehyde: 1.18E-03 POM: 1.68E-04	None	N/A	197 bhp 500 hours/yr 147 bkW max output

16. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
06	PM	Method 5	One Time	§19.702

17. 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)
N/A				

18. 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)
Facility	Annual Lumber Throughput	Maximum 315 MMBF /	Monthly	Yes

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
511	Treestada Itelli	rolling 12	ricquency	100011 (1/11)
		months		
		Maintain valid		
		gas tariff,		
		purchase		
	Combust only	contract, fuel		
01.00	pipeline quality	analysis or		NT
01, 02	natural gas in	other	On-going	No
	burners	appropriate		
		documentation,		
		or perform		
		periodic testing		
		Record		
	Develop,	1. Facility name and location.		
	maintain, and	2. Record the		
	follow a	activity SN or		
	routine and	description.		
	repair	3. Date and time of maintenance or		No
01, 02	maintenance	observation.	As performed	
,	and	4. Maintenance	F	
	housekeeping	activity		
	Plan	performed, including		
	BACT: Proper Maintenance	replacement parts.		
		5. Name of person		
	and Operation	conducting the		
		maintenance. Initial		
01, 02	NESHAP	Notification	One-time	Yes
01,02	Subpart DDDD	§63.9(b)	One-time	1 68
	Annual Log	Maximum		
	Throughput	1,417,500 tons		
04	BACT: Hood	/ rolling 12	Monthly	Yes
	Enclosure	months		
	Annual Log	Maximum		
0.5	Throughput	1,455,300 tons	3.6 -41.1	*7
05	BACT:	/ rolling 12	Monthly	Yes
	Building	months		
	-	Must be		
	Manufacturers'	operated and	Voor Maryal	
	Operating Manuals and	maintained in	Keep Manual for Life of	
06	Maintenance	accordance	Unit(s) On-	No
	Logs	with	going	
	BACT: Proper	manufacturers'	gomg	
	27101.110pc1	specs and good		

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
	Maintenance	air pollution	•	1
	and Operation	control and op		
		practices for		
		minimizing		
		emissions.		
		Must up-date		
		maintenance		
		logs on an as		
		performed		
		basis. Must		
		operate at all		
		times		
		contiguous		
		equipment is in		
		operation.		
	Road Watering	Maintain Road		3.7
09	Plan	Watering Plan	On-going	No
		Records		
		Keep dust from		
00	Road Dust	extending		NT
09	(PM/PM_{10})	beyond	On-going	No
	,	property		
	If Dust	boundary		
	Suppression	Shall contain		
09	Agent used,	no VOC, no	Current, legible	No
0)	Maintain	HAP, no air	MSDS	110
	MSDS	contaminants		
	Total Operating			
	Hours	.		
1.0	(emergency	500 Total	3.6 44	3.7
18	and non-	Hours per	Monthly	No
	emergency	calendar year		
	combined)			
	During Extended			
18	Emergency Use	No limit during	If occurs	Yes
18	in excess of	Emergency	11 occurs	1 68
	500 hours			
	NESHAP	Must be in		
18	Subpart ZZZZ	compliance	Monthly	No
	1 - ====	upon startup		
1.0	D: 15 1	Only ULSD	Keep legible	3.7
18	Diesel Fuel	fuel with the	MSDS	No
		sulfur content		

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
		no greater than 0.0015% sulfur by weight.		
18	Good Combustion Practices	Follow OEM manual	As occurs	No
Facility	Permit Renewal Submit at least 6 months before expiration	Permit is valid for 5 years, beginning on date permit issued and ends five (5) years later, GP #3, unless renewal submitted 6 months prior to expiration date	Every 5 years	Yes
11	BACT: Wind barrier	Keep barrier to prevent wind erosion	On going	No
12	Storage Piles	Keep dust down by wet suppression	Daily, as needed	No
13	Storage Bin	Enclosed Bin for Transport	On going	No
14	Oil Tanks	Nte 14,788 gallons in 24- hours and nte 175,056 gallons of oil per rolling 12 months	On going	No
15	Diesel Tanks	Nte 1,000 gallons in 24- hours and nte 52,000 gallons of diesel per rolling 12 months	On going	No
16	Diesel Tank	Nte 9,000 gallons in 24-hours and nte 468,000 gallons of	On going	No

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
		gasoline per rolling 12 months		

19. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
01, 02	5%	§18.501 and A.C.A. §8-4-203 as referenced by §8-4- 304 and §8-4-311	Use natural gas fuel only
04, 05, 06, 11, 12, 13	5%	§18.501 and A.C.A. §8-4-203 as referenced by §8-4- 304 and §8-4-311	Weekly Observation
09 offsite	0%	§18.501 and A.C.A. §8-4-203 as referenced by §8-4- 304 and §8-4-311	Annual ADEQ Observation
18	20%	§19.503 and A.C.A. §8-4-203 as referenced by §8-4- 304 and §8-4-311	Observation <i>if</i> fire pump runs 3 consecutive hours, otherwise none required

20. DELETED CONDITIONS:

Former SC	Justification for removal
N/A	

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21. GROUP A INSIGNIFICANT ACTIVITIES:

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

	Group			Emission	ns (tp	y)		
Source Name	A	PM/PM ₁₀	02	VOC	CO	NO	HAPs	
	Cat.	FIVI/FIVI10	SO_2	VOC	СО	NO_x	Single	Total
500 Gallon Gasoline Tank	A-13			0.13				
Fire Pump Engine Diesel	A-3			0.000135				
Tank – 260 Gallon	A-3			0.000133				
Hydraulic Oil – 350 Gallon	A-3			0.000135				
Hydraulic Oil – 275 Gallon	A-3			0.000135				
Hydraulic Oil – 340 Gallon	A-3			0.000135				
Hydraulic Oil – 370 Gallon	A-3			0.000135				
Compressor Oil – 130 Gallon	A-3			0.000135				
Hydraulic Oil – 60 Gallon	A-3			0.000135				
Hydraulic Oil – 100 Gallon	A-3			0.000135				
Hydraulic Oil – 160 Gallon	A-3			0.000135				
Hydraulic Oil – 130 Gallon	A-3			0.000135				
Lubricating Oil – 300 Gallon	A-3			0.000135				
Hydraulic Oil – 50 Gallon	A-3			0.00001				
Total				0.14				

22. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

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

Permit #
2348-AOP-R4



Fee Calculation for Major Source

Revised 03-11-16

Facility Name: Anthony Forest Products

Permit Number: 2348-AOP-R5

AFIN: 70-00032

\$/ton factor	28.14	Annual Chargeable Emissions (tpy)	685.7	
	Minor			
Permit Type	Mod	Permit Fee \$	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 Invo Total Permit Fee Chargeable Emissions (tpy) Initial Title V Permit Fee Chargeable Emissions (tpy)	-0.1	0		

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.)

					Permit Fee	Ammuol
	Check if			Change	Chargeab	Annual Chargeab
	Chargeab	Old	New	in	le	le
	le	Perm	Perm	Emissio	Emission	Emission
Pollutant (tpy)	Emission	it	it	ns	S	S
PM		56.6	56.6	0	0	56.6
PM ₁₀		12.9	12.9	0		
PM _{2.5}		0		0		
SO ₂		0.6	0.5	-0.1	-0.1	0.5
VOC		599.2	599.2	0	0	599.2
СО		48.9	48.9	0		
NOx		29.4	29.4	0	0	29.4
Total HAPs		46.31	46.32	0.01		