STATEMENT OF BASIS

for the issuance of Draft Air Permit # 1140-AOP-R1

1. **PERMITTING AUTHORITY:**

Arkansas Department of Environmental Quality 8001 National Drive Post Office Box 8913 Little Rock, Arkansas 72219-8913

2. APPLICANT:

Anthony Timberlands, Inc. 930 Cabe Street Malvern, Arkansas 72104

3. PERMIT WRITER:

Ann Wellinghoff

4. PROCESS DESCRIPTION AND SIC CODE:

SIC Description: Pine Sawmill

SIC Code: 2421

5. SUBMITTALS: November 29, 2001

January 4, 2002 January 9, 2002 January 24, 2002 January 28, 2002 February 19, 2002 February 22, 2002 February 25, 2002

6. REVIEWER'S NOTES:

Anthony Timberlands, Inc. currently operates a pine sawmill located at 930 Cabe Street in Malvern, Hot Spring County, Arkansas. Arkansas Operating Permit #1140-AOP-R1 is the first modification to this facility's initial Title V air permit. This facility is modifying their permit to add a second debarker. This additional debarker will allow an increase in annual production capacity from 90,000,000 board feet to 120,000,000 board feet. In addition, the boiler emissions (SN-02 and SN-03) were updated to reflect the new AP-42 emission factors.

7. **COMPLIANCE STATUS:** The following summarizes the current compliance status of the facility including active/pending enforcement actions and recent compliance activities and issues

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There are currently no enforcement actions against this facility.

8. APPLICABLE REGULATIONS:

A. Applicability

Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, et cetera) (Y/	/N) <u>N</u>	ſ
Has this facility underwent PSD review in the past (Y/N) N Pern	nit#	
Is this facility categorized as a major source for PSD? (Y/N) N $N = 100$ tpy and on the list of 28 (100 tpy)? (Y/N) N $N = 100$ tpy all other (Y/N) N $N = 100$ Tpy all other (Y/N) N $N = 100$ Tpy and (Y/N) N $N = 100$ Tpy all other (Y/N) N $N = 100$ Tpy and (Y/N) N $N = 100$ Tpy all other (Y/N) N $N = 100$ Tpy and (Y/N) N (Y/N) N $N = 100$ Tpy and (Y/N) N (Y/N)		
B. PSD Netting		
Was netting performed to avoid PSD review in this permit? (Y/N) N		

C. Source and Pollutant Specific Regulatory Applicability

Source	Pollutant	Regulation [NSPS, NESHAP (Part 61 & Part 63), or PSD <u>only</u>]
	Not Applicable	

9. EMISSION CHANGES:

The following table summarizes plantwide emission changes associated with this permitting action.

Plantwide Permitted Emissions (ton/yr)					
Pollutant	Change				
PM/PM ₁₀	37.3	55.0	17.7		
SO_2	0.2	0.2	0		

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	Plantwide Permitted Emissions (ton/yr)						
Pollutant	Air Permit 1140-AOP-R0	Air Permit 1140-AOP-R1	Change				
VOC	162.8	216.4	53.6				
СО	7.2	17.6	10.4				
NO_X	28.8	21.2	-7.6				
Methanol	0.05	0.1	0.05				
Diethylene Glycol Monomethyl Ether	2.7	3.7	1				
Cumene	0.05	0.4	0.35				
Xylene	0.05	0.4	0.35				

10. MODELING:

A. Criteria Pollutants

Pollutant	Emission Rate (lb/hr)	NAAQS Standard (μg/m³)	Averaging Time	Highest Concentration (µg/m³)	% of NAAQS
Not Applicable - VOC less than 500 tpy and all other criteria pollutants less than 100 tpy.					

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11. 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 PAER was deemed by the Department 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?
Methanol	262.0	28.82	0.1	Yes
Diethylene Glycol Monomethyl ether	96.66	10.6326	3.7	Yes
Cumene	245.7	27.027	0.4	Yes
Xylene	434.1	47.751	0.4	Yes

2nd Tier Screening (PAIL)

ISCST3 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 was deemed by the Department to be one one-hundredth of the Threshold Limit Value, as listed by the ACGIH.

Pollutant (PAIL, μg/m³) = 1/100 of Threshold Limit Value		Modeled Concentration (μg/m³)	Pass?		
Not Applicable					

12. CALCULATIONS:

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SN	Emission Factor Source (AP-42, Testing, etc)	Emission Factor and units (lbs/ton, lbs/hr, etc)	Control Equipmen t Type (if any)	Control Equipment Efficiency	Comments (Emission factor controlled/uncontrolled, etc)
01	Memo Dated 1-7-1998 in Permit Guidance Manual	0.02 lb/ton	Cyclone	80%	Green Chips Storage Factor
02 and 03	AP-42	Natural Gas Combustio n Factors			Uncontrolled facors
09	AP-42	0.35 lb/ton	Cyclone	80%	Old AP-42 Emission Factor for Log Sawing
10	Memo Dated 1-7-1998 in Permit Guidance Manual	0.5 lb/ton	-	-	Kiln Dried Shavings Loading Factor
11, 12, and 16	ADEQ Softwood Factor	3.5 lb/ 1,000 BF			
13	Sieve Testing of Competitor's Lumber Mill	0.6 lb/ton			Factor accepted since greater than the Kiln Dried Shavings Loading Factor (0.5 lb/ton)
14	Memo Dated 1-7-1998 in Permit Guidance Manual	0.04 lb/ton			Green Chips Loading Factor

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SN	Emission Factor Source (AP-42, Testing, etc)	Emission Factor and units (lbs/ton, lbs/hr, etc)	Control Equipmen t Type (if any)	Control Equipment Efficiency	Comments (Emission factor controlled/uncontrolled, etc)
15	TANKS3	_	_		Previous permit. Emissions are based upon TANKS3 program to get the lb/hr.
17	MSDS				Worst case emissions calculated by multiplying maximum pollutant content times the rate of usage (1,334 gal/yr). Hourly emissions based on 2,000 hrs/yr.

13. TESTING REQUIREMENTS:

This permit requires stack testing of the following sources.

SN(s)	Pollutant	Test Method	Test Interval	Justification For Test Requirement	
Not Applicable					

14. MONITORING OR CEMS

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The following are parameters that must be monitored with CEMs or other monitoring equipment (temperature, pressure differential, etc), frequency of recording and whether records are needed to be included in any annual, semiannual or other reports.

SN	Parameter or Pollutant to be Monitored	Method of Monitoring (CEM, Pressure Gauge, etc)	Frequency*	Report (Y/N)**
		Not Applicable		

^{*} Indicate frequency of recording required for the parameter (Continuously, hourly, daily, etc.)

15. RECORD KEEPING REQUIREMENTS

The following are items (such as throughput, fuel usage, VOC content of coating, etc) that must be tracked and recorded, frequency of recording and whether records are needed to be included in any annual, semiannual or other reports.

SN	Recorded Item	Limit (as established in permit)	Frequency *	Report (Y/N)**
Plantwid e	Lumber Production	, , ,		Y
15	Diesel Fuel Usage	150,000 gallons of diesel fuel per 12 months	Monthly	Y
15	Gasoline Usage	50,000 gallons of gasoline per 12 months	Monthly	Y
17	Dip Chemical Usage	1,334 gallons of dip chemicals per 12 months	Monthly	Y
17	Dip Chemical VOC Content (MSDS)	6.72 lb/gal	As Needed	N
17	Dip Chemical HAP Content (MSDS)	Methanol = 0.10 lb/gal Diethylene glycol monomethyl ether = 5.41 lb/gal Cumene = 0.46 lb/gal Xylene = 0.46 lb/gal	As Needed	N

^{**} Indicates whether the parameter needs to be included in reports.

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SN	Recorded Item	Limit (as established in permit)	Frequency *	Report (Y/N)**
17	HAP Content Substitutions	See Permit	Monthly	N
01, 09, 10, 13, 14	Records of Visible Emissions in Excess of Permitted Opacity	Opacity limits are varied - see following section.	As Needed	N

^{*} Indicate frequency of recording required for the item (Continuously, hourly, daily, etc.)

16. OPACITY

SN	Opacity %	Justification (NSPS limit, Dept. Guidance, etc)	Compliance Mechanism (daily observation, weekly, control equipment operation, etc)	
01, 09	20	Previous Permit Limit	Daily Observations	
02-03	5	Previous Permit Limit	Natural Gas Usage Only	
10, 13, and 14	20	Previous Permit Limit	Weekly Observations (Equipment is used sparingly during the day or is operated once a week; refer to RTC for Permit #1140-AOP-R0)	

17. **DELETED CONDITIONS:**

The following Specific Conditions were included in the previous permit, but deleted for the current permitting action.

^{**} Indicates whether the item needs to be included in reports

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Former SC	Justification for removal
	No Specific Conditions were deleted.

18. VOIDED, SUPERSEDED OR SUBSUMED PERMITS

List all active permits for this facility which are voided/superseded/subsumed by issuance of this permit.

Permit #	
1140-AOP-R0	

19. CONCURRENCE BY:

The following supervisor concurs with the permitting decis	ion:
Lyndon Poole P.F.	