STATEMENT OF BASIS

For the issuance of Draft Air Permit # 0688-AOP-R20 AFIN: 30-00015

1. PERMITTING AUTHORITY:

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

2. APPLICANT:

Arauco North America, Inc. 1275 Willamette Road Malvern, Arkansas 72104

3. PERMIT WRITER:

Alexander Sudibjo

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Reconstituted Wood Product Manufacturing

NAICS Code: 321219

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)	
9/10/2025	Minor Mod	Increased ODT throughput at SN-12

6. REVIEWER'S NOTES:

With this minor modification, the facility is relocating one of the rip saws and shaper saw from the moulding facility (SN-100) to the MDF facility. These two saws will be connected to the sawdust pickup baghouse (SN-12). This modification will not alter the fabric filter or its maximum airflow capacity but will increase the oven-dried ton throughput at SN-12. The facility's permitted annual emissions are increasing by 5.2 tpy VOC, 0.97 tpy acetone, 0.65 tpy formaldehyde, 3.22 tpy methanol, and 1.3 tpy phenol.

AFIN: 30-00015 Page 2 of 11

7. COMPLIANCE STATUS:

As of September 10, 2025, there are no compliance issues with the facility. ECHO (https://echo.epa.gov/detailed-facility-report?fid=110000597881) shows no air violations identified as of July 11, 2024.

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)
	N/A (natural gas-fired sources)	NSPS, Subpart Dc
SN-37 & SN-38	There are no specific emission limits or pollutants identified, but the rule generally regulates HAPs	NESHAP, Subpart DDDDD
Plantwide	HAPs	NESHAP, Subpart DDDD
SN-35B	CO PM NMHC + NO _x	NSPS, Subpart IIII

10. UNCONSTRUCTED SOURCES:

Linconstructed	Permit	Extension	Extension	If Greater than 18 Months without	
Unconstructed Source	Approval	Requested	Approval	Approval, List Reason for	
	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 8 CAR pt. 40 requirement.)

If yes, are applicable requirements included and specifically identified in the permit?

AFIN: 30-00015 Page 3 of 11

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			
None of the control devices in the facility are subject to CAM because the emissions that enter the control devices are less than 100 tpy.					

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.

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).

AFIN: 30-00015 Page 4 of 11

Pollutant	TLV (mg/m³)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
Acetaldehyde	45.04	4.95	9.03	No
Acetone	1187	130	0.99	Yes
Cadmium	0.01	1.1E-03	0.04	No
Formaldehyde	1.5	0.165	11.36	No
Hexane	176.2	19.3	9.18	Yes
Methanol	262	28.8	12.82	Yes
MIBK	81.9	9.01	8.89	Yes
Phenol	19.2	2.11	10.1	No

^{2&}lt;sup>nd</sup> 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?
Cadmium	0.1	0.050	Yes
Acetaldehyde	450.4	1.59	Yes
Formaldehyde	15	10.65	Yes
Phenol	192.0	23.19	Yes

a) H₂S Modeling:

A.C.A. §8-3-103 requires hydrogen sulfide emissions to meet specific ambient standards. Many sources are exempt from this regulation, refer to the Arkansas Code for details.

Is the facility exempt from the H₂S Standards
If exempt, explain: the facility does not have H₂S emissions.

AFIN: 30-00015 Page 5 of 11

15. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01	2017 Stack Test SO ₂ based on 2002 Stack Test	Hourly lb/ODT 0.68 PM/PM ₁₀ 0.063 VOC 1.226 CO 1.143 NOx Annual lb/ODT 0.45 PM/PM ₁₀ 0.042 VOC 0.817 CO 0.762 NOx 1.08 lb/hr SO ₂	RCO	90%	
	AP-42 1.4	lb/MMscf 5.0E-04 lead 1.1E-03 cadmium	None	N/A	SN-01: 22.71 ODT/hr
	NCASI TB 770	lb/ODT 0.014 acetone	None	N/A	SN-26: 28 ODT/hr SN-01 + SN-26:
26	2017 Stack Test SO ₂ based on 2002 Stack Test	Hourly lb/ODT 0.16 PM/PM ₁₀ 0.10 VOC 0.12 CO 1.37 NOx Annual lb/ODT 0.11 PM/PM ₁₀ 0.07 VOC 0.08CO 0.91 NOx 0.28 lb/hr SO ₂	RCO	90%	371,372 ODT/yr 4.0 MMBtu/hr each RCO
	AP-42 1.4	<u>lb/MMscf</u> 5.0E-4 lead 1.1E-3 cadmium	None	N/A	
	NCASI TB 770	lb/ODT 0.014 acetone	None	N/A	

AFIN: 30-00015 Page 6 of 11

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
04,	ADEQ Grain Loading Factor + SF	0.001 grain/ dscf PM/PM ₁₀	Baghouse	99.2% and higher	38,500 cfm each
09, 22, 22a, 27, & 28	NCASI TB 770	lb/ODT 0.056 VOC 8.9E-3 formaldehyde 6.9E-3 methanol	None	N/A	SN-04: 25 ODT/hr SN-09: 29 ODT/hr SN-22: 25 ODT/hr SN-22a: 25 ODT/hr SN-27:29 ODT/hr SN-28: 29 ODT/hr
	ADEQ Grain Loading Factor + SF	0.001 grain/ dscf PM/PM ₁₀	Baghouse	99.96%	38,500 cfm
12	NCASI TB 770	lb/ODT 0.368 VOC 0.075 acetone 0.018 formaldehyde 0.25 methanol 0.1 phenol	None	N/A	SN-12: 9.27 ODT/hr
	ADEQ Grain Loading Factor + SF	0.001 grain/ dscf PM/PM ₁₀	Baghouse	99.96%	93,000 cfm
NCASI TB 770		lb/Msf 0.0057 VOC 8.5E-4 acetone 4.0E-4 formaldehyde 1.8E-3 methanol 3.5E-3 phenol	None	N/A	SN-13: 79 Msf/hr
14	ADEQ Grain Loading Factor + SF 0.001 grain/ dscf PM/PM ₁₀		Baghouse	99.9%	3,000 cfm
16	ADEQ Grain Loading Factor + SF	0.001 grain/dscf PM/PM ₁₀	Baghouse	99.99%	38,500 cfm
18	ADEQ Grain Loading Factor	0.05 gr/dscf PM/PM ₁₀	Cyclone		3,200 cfm
19	AP-42 13.2.4	<u>lb/ton</u> 2.5E-4 PM 1.2E-4 PM ₁₀	None	N/A	Material throughput 42.5 tph 302,623 tpy
29	Testing	0.001 grain/ft ³ PM/PM ₁₀	Baghouse	99.99%	38,500 cfm

AFIN: 30-00015 Page 7 of 11

	Emission Factor	D D .	G . 1	Control		
SN	Hmission		Control Equipment	Equipment Efficiency	Comments	
	NCASI TB 770	1b/ODT 0.13 VOC 4.2E-3 acetone 4.4 E-3 acetaldehyde 3.4E-2 formaldehyde 1.7E-2 methanol	None	N/A	SN-29: 29 ODT/hr	
32	ADEQ Grain Loading Factor + SF	0.001 grain/dscf PM/PM ₁₀	Baghouse	99.98%	10,500 cfm	
34	Hourly lb/VMT 0.75 PM 0.15 PM ₁₀		Street Sweeper	None applied	$sL = 3 g/m^2$ W = 23.5 ton P = 105 days N = 365 days 3.66 VMT/hr	
		0.14 PM ₁₀			8,548 VMT/yr	
NSPS IIII AP-42		g/HP-hr 0.6 PM/PM ₁₀ 0.59 VOC 3.7 CO 7.22 NO _x 0.29 lb/MMBtu SO ₂	None	N/A	150 HP 7.7 gal/hr 500 hr/yr 0.137 MMBtu/gal	
	3.3	Various HAPs				
37	AP-42 1.4	1b/MMscf 7.6 PM/PM ₁₀ 0.6 SO _x 5.5 VOC 84 CO Various HAPs	None	N/A	62 MMBtu/hr	
	Vendor Data $\frac{\text{lb/MMscf}}{36 \text{ NO}_x}$					
38	AP-42 1.4	lb/MMscf 7.6 PM/PM ₁₀ 0.6 SO _X 5.5 VOC 84.0 CO 50.0 NO _X Various HAPs	None	N/A	92 MMBtu/hr	
100	Nederman Technical Spec	0.001 grain/dscf PM/PM ₁₀	Baghouse	99.9%	12,000 cfm	

AFIN: 30-00015 Page 8 of 11

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
101 102 103	Mass Balance	0.1 lb VOC/gal	None	N/A	2,400 gal/day 800 gal/line
104	AP-42 13.2.1	Hourly lb/VMT 0.92 PM 0.18 PM ₁₀ Annual lb/VMT 0.86 PM 0.17 PM ₁₀	None	N/A	sL = 3.0 g/m ² W = 28.88 ton P = 105 days N = 365 days 0.88 VMT/hr 1,560 VMT/yr
105	AP-42 13.2.2	Hourly lb/VMT 10.5 PM 3.0 PM ₁₀ Annual lb/VMT 7.49 PM 2.14 PM ₁₀	None	N/A	s = 8.4 g/m ² W = 28.54 ton P = 105 days 2.96 VMT/hr 5,622 VMT/yr

16. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
	PM ₁₀ NO _x CO Opacity	201A or 5, & 202 7E 10 9	No later than February 1, 2013, and once every 5-years thereafter.	Necessary to verify emissions
01	VOC (inlet and outlet)*	25A	Once every 5- years thereafter on the same schedule as the PM ₁₀ , NO _x , CO, and opacity.	Necessary to verify emissions
26	PM ₁₀ NO _x CO VOC (inlet and outlet)* Opacity	201A or 5, & 202 7E 10 25A 9	No later than February 1, 2013, and once every 5-years thereafter.	Necessary to verify emissions

AFIN: 30-00015 Page 9 of 11

SN	Pollutants	Test Method	Test Interval	Justification
37	СО	10	Initial test**	Necessary to verify emissions

^{*} Inlet and outlet VOC testing is only required if the facility ever fails a VOC test.

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)
01 & 26	Min. avg. Combustion Temperature 671°F (SN-01) & 744°F (SN-26)	CPMS	Combustion Temp: Recorded – 15 min. Averaged – 3 hr (block)	No
01 & 26	Pressure Differential	CPMS	Pressure Differential: Recorded – 1 hr Averaged – 24 hr	No
	Catalytic Activity	Test	Annually	No

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)
01 & 26	Material Throughput	371,372 tons	Monthly	Yes
04, 09, 12, 13,	Opacity observations	5 %	Daily	Yes
14, 16, 22, 22a, 27, 28, 29, 32, 100	Equipment inspections, maintenances, and repairs	Weekly inspections	Monthly	Yes
18	Hours of Operation	4,000 hr per rolling 12 months	Monthly	Yes
19	Green wood chips received	302,623 tons per rolling 12 months	Monthly	Yes

^{**} Vendor guarantee for CO emissions was listed as three times higher than AP-42. Facility agreed to stack test to demonstrate that CO emissions are lower than the vendor guarantee.

AFIN: 30-00015 Page 10 of 11

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
	Natural Gas	543.2 MMft ³ /yr	Monthly	Yes
	Burned	790.2 MMft ³ /yr	Monuny	
37 & 38	Notification/reports			
	pursuant to	N/A	As Needed	No
	§ 63.7555			
	Hours of operation	500 hours per	Monthly	Yes
	Tiours or operation	calendar year	Within	1 03
	Maintenance plan			
	and records of			
35B	conducted			
	maintenance (if	N/A	As Needed	No
	necessary per 40			
	C.F.R.			
	§ 60.4211(g)(2))			
101, 102, 103	VOC emissions	10.2 lb/hr 43.8 tpy	Monthly	Yes

19. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
01 & 26	10%	Reg.18.501	Weekly Observations
04, 09, 12, 13, 14, 16, 22, 22a, 27, 28, 29, 32, 100	5%	Reg.18.501	Weekly Observations
18	5%	Reg.18.501	Weekly Observations
37 & 38	5%	Reg.18.501	Natural gas only
34, 104, 105	No visible emissions off-site	Dept. Guidance	Dust Suppression
35B	20%	Reg.18.501	Annual observations

20. DELETED CONDITIONS:

Former SC	Justification for removal
	N/A

AFIN: 30-00015 Page 11 of 11

21. GROUP A INSIGNIFICANT ACTIVITIES:

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

			Emissions (tpy)					
Source Name	Group A Category	PM/	50	MOC		NO	HAPs	
	PM ₁₀		SO_2	VOC	CO	NO _x	Single	Total
Moulding Dept Line 1 Ovens (2 @ 1.29 MMBtu/hr each)	A-1	0.08	0.01	0.06	0.93	1.11	0.06	0.06
Moulding Dept Line 2 Ovens (2 @ 1.29 MMBtu/hr each)	A-1	0.08	0.01	0.06	0.93	1.11	0.06	0.06
Moulding Dept Line 3 Ovens (2 @ 1.29 MMBtu/hr each)	A-1	0.08	0.01	0.06	0.93	1.11	0.06	0.06
Diesel Storage Tank (300 gal)	A-3			0.01			0.01	0.01
Diesel Storage Tank (1,000 gal)	A-3			0.01			0.01	0.01
Resin Tanks (6 @10,000 gallons each)	A-13			0.04			0.04	0.04
Gasoline Storage Tank (1,000 gal)	A-13			0.29			0.29	0.29
Woodwaste Loadout	A-13	0.37						
Cooling Towers (2 @ 1,500 gpm each)	A-13	0.46						

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 #	
0688-AOP-R19	



Facility Name: Arauco North America Incorporated

Permit Number: 688-AOP-R20

AFIN: 30-00015

\$/ton factor	28.14	Annual Chargeable Emissions (tpy)	523.3
Permit Type	Minor 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 Invoice \$	0		
Total Permit Fee Chargeable Emissions (tpy)	6.17		
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.)

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
PM		116.9	116.9	0	0	116.9
PM_{10}		97.5	97.5	0		
PM _{2.5}		0	0	0		
SO_2		8.3	8.3	0	0	8.3
VOC		149.7	154.9	5.2	5.2	154.9
со		246.7	246.7	0		
NO_X		239	239	0	0	239
Lead		0.000351	0.000351	0		

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
Acetone	>	3.23	4.2	0.97	0.97	4.2
Acetaldehyde		39.51	39.51	0		
Cadmium		0.04	0.04	0		
Formaldehyde		48.94	49.59	0.65		
Hexane		40.15	40.15	0		
Methanol		52.83	56.05	3.22		
MIBK		38.94	38.94	0		
Phenol		42.92	44.22	1.3		
Total Other HAPs		0.03	0.03	0		