STATEMENT OF BASIS

For the issuance of Draft Air Permit # 1803-AOP-R9 AFIN: 07-00212

1. **PERMITTING AUTHORITY:**

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

2. APPLICANT:

Georgia-Pacific Wood Products, LLC Fordyce OSB #1 Georgia-Pacific Road Fordyce, Arkansas 71742

3. PERMIT WRITER:

Patty Campbell, PE

4. PROCESS DESCRIPTION AND NAICS CODE:

NAICS Description:Reconstituted Wood Product ManufacturingNAICS Code:321219

5. SUBMITTALS:

8/9/2011, 8/30/2011, 10/27/2011, and 11/2/2011

6. **REVIEWER'S NOTES**:

Georgia-Pacific Wood Products, LLC Fordyce OSB operates a facility located at #1 Georgia-Pacific Road, Calhoun County, Fordyce, AR 71742. This permitting action is necessary to modify the permit as follows:

1. Update the Press (SN-02) Hydraulic System with several improvements: an improved filtering unit for the hydraulic oil, a more sophisticated control system, a replacement PVL pump, "soft-start" components for the eight existing hydraulic pumps and an additional ninth "swing" pump. These multiple changes to the hydraulic system will increase the maximum hourly production rate from 76.8 to 77.2 MSF/hr (3/8" basis). There is no increase in pound/hour (lb/hr) or tons per year (tpy) emissions because of the 20% safety factor, Specific Conditions (SC) #18, #19, #20, #27 and #28;

- 2. Remove outdated language, i.e., "submit [to] . . . Compliance Section Manager" and replace with ". . . in accordance with Plantwide Condition (PWC) #3", SC #9, #10, #11, #27 and #28;
- 3. Clarify that stack test records are to be submitted in their entirety to the Department in accordance with General Provision (GP) #7 and maintained on-site in accordance with GP #6 but keep no less than the latest performance test of the unit for SN-01 and SN-02, SC #9, #10, #11, #27 and #28;
- Minimum 3-hour block average firebox operating temperature established during the most recent performance tests for SN-01 as follows: RTO A 1550 °F [March 2008] and RTO B 1552 °F [March 2008], SC #12.a.ii. Subsequent performance test that demonstrates compliance with permit may change the minimum operating temperature;
- 5. Minimum 3-hour block average firebox operating temperature established during the most recent performance tests for SN-02 as follows: RTO mode 1498 °F [March 2008] and TCO mode 1250 °F [March 2004], SC #29.a.ii. Subsequent performance test that demonstrates compliance with permit may change the minimum operating temperature;
- 6. Add recordkeeping of HAPs at SN-11 used must be below 2011 reportable Threshold Limit Values (TLVs) and below de minimis levels, SC #68;
- 7. Add ammonia content limit in the edge seal materials (SN-11) to a maximum allowable of one percent (1.0%) ammonia by weight, SC #71;
- 8. Updated *Paved* Roads PM/PM₁₀ emissions (SN-12) based on latest revisions to AP-42 Section 13.2.1 (01/2011), SC #73 and #74; and
- 9. Increase VOC and formaldehyde emissions in Product Storage Area (SN-14) by adding six new 40,000 acfm exhaust fans, SC #80 and #81.

The total permitted annual emission rate changes associated with this modification include: -108.0 tons per year (tpy) PM, -21.2 tpy PM_{10} , 1.4 tpy VOC, 1.03 tpy formaldehyde, 0.0055 tpy POM and 4.00 tpy ammonia.

7. COMPLIANCE STATUS:

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

There are no active or pending air enforcement actions at this time.

8. **PSD APPLICABILITY**:

a. Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N 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, explain why this permit modification is not PSD?

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
Facility	PM/PM_{10} , VOC, CO and NO_X	PSD
Facility	HAPs	NESHAP Subpart DDDD
15	HAPs	NESHAP Subpart QQQQ
17	HAPs	NESHAP Subpart ZZZZ

10. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

11. MODELING:

Criteria Pollutants

Pollutant	Emission Rate (lb/hr)	NAAQS Standard (µg/m ³)	Averaging Time	Highest Concentration (µg/m ³)	% of NAAQS
PM10	136.8**	150	24-Hour	133	88.7
СО	226.0**	10,000	8-Hour	137.12	1.37
		40,000	1-Hour	267.35	0.67
NO _X	143.9**	100	Annual	7.54	7.54

*North Little Rock background values 2008 were used, since there are few PM_{10} monitors in Arkansas, the monitors from the urban areas (Little Rock) overestimate the background conditions in rural areas. The facility originally requested to use a 3-year average since attainment/nonattainment is determined on that basis. Background value averaging will not be allowed since it is not appropriate, per Thomas Rheaume 07/31/2009.

**The above modeling was conducted Permit #1803-AOP-R7, issued 03/24/2010. There are no changes in VOC, CO and NO_X hourly emissions in Permit #1803-AOP-R8. (PC, 4/2011)

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?
Acetaldehyde	45.04*	4.9544	2.71**	Y
Acrolein	0.23	0.0253	1.11*	N
Ammonia	17.41	1.915	1.3***	Y
Benzene	1.60	0.176	0.14*	Y
Cadmium	0.002	0.0002	0.03*	N
Formaldehyde	1.5	0.165	7.15***	N
Hexane	176.24	19.3864	0.96*	Y
Methanol	262.09	28.8299	13.41**	Y
Phenol	19.25	2.1175	2.96*	N
РОМ	0.20	0.022	0.011* (02)	Y
Propionaldehyde	47.53	5.2283	0.20*	Y
Vinyl Acetate	35.21	3.8731	1.24**	Y
Acetone	1187.12	130.5832	2.20*	Y

* Emissions unchanged as of Permit #1803-AOP-R7, renewal, March 24, 2010.

**Emissions updated as of Permit #1803-AOP-R8, re change to SN-15, April 2011.

***Emissions updated as of Permit #1803-AOP-R9, re changes to SN-11, 12 & 14, August 2011.

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/m ³)	Pass?
Acrolein	2.3	0.486	Y
Cadmium	0.02	2.3E-4	Y
Formaldehyde	15.0**	10.042*	Y
Phenol	192.5	1.38	Y

* Modeled on August 16, 2011 for Permit #1803-AOP-R9 by PC.

**Surrogate screening value adopted by ADEQ (Steve Patrick memo of 10/19/1998).

Other Modeling: None

12. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01 OSB 5 Dryers	2002 PSD Application (Permit #1803-AOP- R2)	18.81 lb/hr PM/PM ₁₀ 14.66 lb/hr NO _X 31.89 lb/hr VOC	2 RTOs & multiclones	90% (PM/PM ₁₀) 90% (VOC)	90% (PM/PM10)PM10 control efficiency of multiclones is 33.3%90% (VOC)PM10 control efficiency due only to the RTO is 85%
	AP-42, Table1.6-2	0.025 lb/MMbtu SO ₂		40% (CO)	
	AP-42, Table 10.6.1-2	5.3 lb/ODT CO		90% (Acetone)	

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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
	AP-42, Table 10.6.1-3	$\begin{array}{c} 0.172 \ \text{lb/ODT} \ \text{Acetaldehyde} \\ 0.200 \ \text{lb/ODT} \ \text{Acetone} \\ 0.128 \ \text{lb/ODT} \ \text{Acrolein} \\ 0.0113 \ \text{lb/ODT} \ \text{Benzene} \\ 0.405 \ \text{lb/ODT} \ \text{CH}_2\text{O} \\ 0.142 \ \text{lb/ODT} \ \text{Methanol} \\ 0.0284 \ \text{lb/ODT} \ \text{Phenol} \\ 0.0172 \ \text{lb/ODT} \\ \text{Propionaldehyde} \end{array}$			Total PM ₁₀ control efficiency (operated in series) is 90%
	AP-42, Table 1.4-2 0.6 lb/MMscf SO ₂				
01 Natural Gas Emissions	AP-42, Table 1.4-3	2.1E-03 lb/MMscf Benzene 7.5E-02 lb/MMscf CH ₂ O 1.8 lb/MMscf Hexane			
	AP-42, Table 1.4-4	1.1E-03 lb/MMscf Cadmium			
	AP-42, Table 1.4-1	100 lb/MMscf NO _X 84 lb/MMscf CO			
014	AP-42, Table 1.4-2	7.6 lb/MMscf PM/PM ₁₀ 0.6 lb/MMscf SO ₂ 5.5 lb/MMscf VOC	None	NI/A	NI/A
01A	AP-42, Table 1.4-3	2.1E-03 lb/MMscf Benzene 7.5E-02 lb/MMscf CH ₂ O 1.8 lb/MMscf Hexane	None		
	AP-42, Table 1.4-4	1.1E-03 lb/MMscf Cadmium			
02 OSB	AP-42, Table 10.6.1-4	0.11 lb/MSF PM/PM ₁₀	Multiclones	75% (PM)	
Press	AP-42, Table 10.6.1-5	0.0014 lb/MSF NO _X 0.0026 lb/MSF CO	RTO/TCO	90% (VOC)	@8,760 hrs/yr

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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
	AP-42, Table 10.6.1-6	0.21 lb/MSF VOC 0.0052 lb/MSF Acetaldehyde 0.0035 lb/MSF Acetone 0.044 lb/MSF CH ₂ O 0.50 lb/MSF Methanol 0.072 lb/MSF Phenol		75% (CO)	Maximum Annual OSB Throughput = 600,000 million SF/yr Maximum Hourly Throughput =
	AP-42, Table 1.4-1	100 lb/MMscf NO _x 84 lb/MMscf CO			77,200 SF/hr = 77.2 MSF/hr
02 RTO	AP-42, Table 1.4-2	7.6 lb/MMscf PM/PM ₁₀ 0.6 lb/MMscf SO ₂ 5.5 lb/MMscf VOC			Safety Factor = 1.2 for OSB press and OSB RTO
(Natural Gas)	AP-42, Table 1.4-3	2.1E-03 lb/MMscf Benzene 7.5E-02 lb/MMscf CH ₂ O 1.8 lb/MMscf Hexane			Press RTO - 12 MMBTU/hr =
	AP-42, Table 1.4-4	1.1E-03 lb/MMscf Cadmium			
	Air Flow	13,623 dscfm 0.01 grains/dscf			Screen Fines/ Saw
03	Throughput	145,208 tpy 33,152 lb/hr 77.2 MSF/hr	Receiver	80.00% for PM/PM ₁₀ 99.96% for PM/PM ₁₀	Trim Transfer Pnuematics Calculations were provided for both Throughput and Air flow/Grain loading. The maximum
	AP-42, Table 10.6.1-7 (03/2002) Raw Fuel Bin	0.06 lb/MSF VOC 0.0003 lb/MSF CH ₂ O 0.0015 lb/MSF Acetone 0.0015 lb/MSF Methanol	Bag Filter		
			Receiver	80.00% for PM/PM ₁₀	used.
04	Throughput	6,203 lb/hr	Bag Filter	99.83% for PM/PM ₁₀	@8,760 hrs/yr Safety Factor 1.2

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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
05	05 Air flow/ 33,800 dscfm Grain loading 0.01 grain/dscf		Receiver Bag Filter	80.00% for PM/PM ₁₀ 99.83% for PM/PM ₁₀	
	Air flow/ Grain loading	15,175 dscfm 0.01 grain/dscf			
06	Throughput	23,315 tpy 5,323 lbs/hr 77.2 MSF/hr	Receiver	80.00% for PM/PM ₁₀	
	AP-42, Table 10.6.1-7 (03/2002) Sanderdust Metering Bin	0.12 lb/MSF VOC 0.00073 lb/MSF Methanol	Bag Filter	99.88% for PM/PM ₁₀	
	Throughput	23,315 tpy 5,323 lb/hr 77.2 MSF/hr	Receiver	80.00% for PM/PM ₁₀	
07	AP-42, Table 10.6.1-7 (03/2002) Sanderdust Metering Bin	0.12 lb/MSF VOC 0.00073 lb/MSF Methanol	Bag Filter	99.96% for PM/PM ₁₀	
08	Air flow/ Grain loading	14,248 dscfm 0.01 grain/dscf	Receiver Bag Filter	80.00% for PM/PM ₁₀ 99.46% for PM/PM ₁₀	
09	Throughput	33,152 lb/hr	Receiver Bag Filter	80.00% for PM/PM ₁₀ 99.96% for PM/PM ₁₀	

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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	
10	Production	134.5 to 13.45 to	ns logs/hr I 1s bark/hr F	Debarker Bark Hog	Nona	NI/A	Assume bark equals 10% by
10	AP-42	0.0 0.0)24 lb/ton F 11 lb/ton P	PM M ₁₀	INOLIC	IN/A	weight of total logs
	Inside Spray Booth	0.	176 gal/MS 13.7 gal/hr	SF		54% (s 30% 98% (fil	olids content) (exhaust) ter efficiency)
11 Paint / Ink	Outside Spray 0.018 gal/MSF Booth 1.4 gal/hr		SF	None	66% (solids content) 60% (sprayer transfer efficiency) 75% (reduction from building enclosure)		
Tunnt / Tink	Throughput	78 MSF/hr			Total emissions are sum of painting inside and outside spray		
	Testing	8.5 lb/gal Paint/Ink Density 0.31 lb/gal VOC 0.085 lb/gal HAPs				booth VOC content determined from Highest 0.31 lb VOC/gallon Paint Safety Factor – +20%	
	AP-42, Section 13.2.1 (01/2011) Paved Roads	PM PM ₁₀	<u>lb/VMT</u> Varies	<u>k</u> 0.0110 0.0022	Sweeping, water		@8,760 hrs/yr 192.2 mile/day 70,135 mile/yr No rain
12 Roads	AP-42, Section 13.2.2 (11/2006) Unpaved Roads	PM PM ₁₀	<u>lb/VMT</u> 10.0 <u>k</u> 3.07 4.9		truck, speed limits	N/A	@2,400 hrs/yr 76.0 mile/day 7,600 mile/yr 100 days rain
13	AP-42 Table 11.9-4 AP-42 Table 11.9-1 AP-42 Section 13.2.4	0.38 tons/acre-year 0.72U TSP ≤ 30 μm 0.000046 lb/ton PM/PM ₁₀		None	N/A	Outside Bark Storage	

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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
14	OSHA Testing indicates 0.21 ppm VOC/HCHO	0.21 ppm VOC 0.21 ppm CH ₂ O <u>Fan Speed</u> 1 @40,000 acfm 6 @48,356 acfm max total fan flow = 330,136 acfm HCOC 0.3476 lb/hr or 1.523 tpy non-point sources in whse	None	N/A	Fin Prod Storage Assume Formaldehyde concentration the same as VOC. VOC conc = 0.21 ft ³ /MMft ³ Fan Speed = 0.330136 MMft ³ /min
	Throughput	1125 lb adhesive/hour			Overlay Application
15	Production	oduction $\begin{array}{c} 0.22\% \text{ by wt content VOC} \\ 0.11\% \text{ by wt Acetaldehyde} \\ 0.03\% \text{ by wt CH}_2\text{O} \\ 0.07\% \text{ by wt Methanol} \\ 0.11\% \text{ by wt Vinyl Acetate} \end{array}$ None		N/A	Max op speed 120 ft/m (900 panels/hr) @ 1.25 lbs adhesive/panel @8760 hr/yr
	Throughput	77.2 MSF/hr			Blender @8,760 hrs/yr Safety Factor = 1.2
16	AP-42, Table 10.6.1-7 (03/2002) Blender PF & MDI	0.16 lb/MSF VOC 0.0018 lb/MSF Acetone 0.0036 lb/MSF CH ₂ O 0.063 lb/MSF Methanol	None	N/A	
	Throughput	500 hrs/yr			
17	AP-42, Section 3.3	-42, on 3.3 7,000 Btu/hp-hr			Diesel-fired
	AP-42, Table 3.3-1	0.0022 lb/hp-hr PM/PM ₁₀ 0.00205 lb/hp-hr SO2 0.00247 lb/hp-hr VOC 0.00668 lb-hp-hr CO 0.031 lb/hp-hr NO _x	None	N/A	Generator

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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
	AP-42, Table 3.3-2	HAPs 7.67E-04 lb/MMBtu Acetaldehyde 9.25E-04 lb/MMBtu Acrolein 9.33E-04 lb/MMBtu Benzene 0.00118 lb/MMBtu CH2O 0.000168 lb/MMBtu POM			

13. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
01, 02	PM ₁₀ NO _X VOC [THC (as carbon)]	5 or 201 7E 25A	Every 5 years, alternate RTOs	63 DDDD
01,02	СО	10	Every 5 years, each RTO	Basis for Calculations
02	PM ₁₀ NO _X VOC [THC (as carbon)] zco	5 or 201 7E 25A 10	If TCO is operated, then within 180 days of operation, per PWC #3, after that every 5-yrs.	63 DDDD for CO basis of calc.
01, 02	Total HAPs	25A	Once	IPT
01, 02	Opacity	9	Every 5 years	63 DDDD
01, 02	Formaldehyde	Acetylacetone Method; Or other test method upon the Department's approval.	Every 5 years	Basis for Calculations

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14. 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	RTO A and RTO B Minimum Temperatures - 1550°F and 1552°F respectively Subsequent performance test that demonstrates compliance with permit may change the minimum operating temperature	CEM	At least every 15 minutes & reduce the data to 3-hour block average to confirm compliance with minimum temps	Y
01	Isolation Damper	СЕМ	As occurs changes in damp position: "Open" or "Closed"	N
02	RTO Minimum Temperature [1498 °F] TCO Minimum Temperature [1250 °F] Subsequent performance test that demonstrates compliance with permit may change the minimum operating temperature	CEM	At least every 15 minutes & reduce data to 3-hour block average to confirm compliance w/minimum temp TCO not operating currently.	Y

15. **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	OSB Throughput	600 MMSF/yr on a 3/8-inch basis OSB	Monthly and 12 rolling months	Y
01 & 02 RTO	Performance Tests	PM ₁₀ , VOC, NO _X , and formaldehyde (one of 2 RTOA/B with 5 dryers operating)	Every 5 years Keep latest test	Y entire report

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
01 & 02 RTO	Performance Tests	CO (both RTO A & B separately with 5 dryers operating @90%+)	Every 5 years Keep latest test	Y entire report
01, 02	02SSM Plan, SAM Reports and immediate reports of malfunctionsReport malfunctions (Submit start- up, shutdown & malfunction events inconsistent with SSM Plan) Keep current SSM Plan onsite and keep revised SSM Plans for 5 years		Every 6 months	Y
01	01 Minimum Operating 01 Temperature of RTO A & RTO B Based on Minimum T recorded during Ma performance test, 15 1552 °F, respective subsequent tests esta minimum tem		Every 15 minutes & reduce the data to 3- hour block average, Record Daily	N
01 & 02 Pressure readings		n/a	Recorded hourly and averaged every 12 hours.	N
01A	01A Venting to Atmosphere Only Natural Gas all and Fuel used directly to atmo		As occurs	N
02 Minimum Operating 02 Temperature of TCO & RTO		Based on Minimum Temperature recorded during March 2004 on TCO performance test, 1250 °F and March 2008 on RTO performance test, 1498 °F, until subsequent tests establish new minimum temp.	Every 15 minutes & reduce the data to 3- hour block average, Record Daily	N
11	VOC emitted & MSDS or equivalent	17.4 tpy	Monthly	N
	documentation	0.31 VOC/gal	On going	

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
	Use only non-HAP coatings (see SC #67) & MSDS or equivalent documentation	Non-HAP coating is defined as coating with HAP contents below 0.1% by mass for OSHA defined carcinogens as specified in 29 CFR 1910.1200(d)(4), and below 1.0% by mass for other HAP compounds.	As necessary	
	MSDS or equivalent documentation of SN-11 ammonia containing materials	Ammonia content of material not to exceed one percent (1.0%) by weight	On going	
	Add recordkeeping of HAPs at SN-11	Must be below reportable threshold limit values (TLVs) and below de minimis levels	Record 2011 one time and keep on-site	
11	Notification	According to the schedule in 40 CFR §63.2280 and according to 40 CFR Part 63, Subpart A	On going	Y
15	If the affected source applies coating to products in the following subcategory: 1. Exterior Siding and Primed Doorskins 2. Flooring 3.Interior Wall Paneling or Tileboard 4.Other Interior Panels 5. Doors, Windows, and Miscellaneous	Must limit organic HAP emissions to the atmosphere to no more than the applicable emission limit(s) in the following table <u>in grams HAP/liter solids (lb HAP/gal solids) is</u> 1. 7 (0.06) 2. 93 (0.78) 3. 183 (1.53) 4. 20 (0.17) 5. 231 (1.93)	Monthly and 12 month rolling	Ν
15	VOC Acetaldehyde Formaldehyde Methanol Vinyl Acetate [May be MSDS sheets & spreadsheet]	Shall not exceed following Content Limit VOC -0.22 % by weight Acetaldehyde - 0.11 % by weight Formaldehyde -0.03 % by weight Methanol - 0.07 % by weight Vinyl Acetate - 0.11% by weight	Monthly	N
17	Operating Hours of Diesel Generator	Nte 500 operating hours per rolling 12 months, based on non- resettable hour meter	Monthly	N

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16. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
01 and 02	10%	§18.501 and A.C.A.	Weekly
01 and 02	20%	§19.503 and A.C.A.	Daily Observation During "Bakeout"
03 thru 09	10%	§18.501 and A.C.A.	Weekly
10	20%	§19.503 and A.C.A.	Weekly
12 (off-site)	5%	A.C.A.	Water sprays, etc
13	20%	§19.503 and A.C.A.	None
17	20%	§19.503and A.C.A.	Use of diesel fuel only

17. DELETED CONDITIONS:

Former SC	Justification for removal
29 .a. ii.	Remove the 3-hour block average catalytic oxidizer temperature for SN-02 above 800 °F for TCO mode. Outdate info.

18. GROUP A INSIGNIFICANT ACTIVITIES:

		Emissions (tpy)							
Source Name	A	PM/	50	VOC	CO	NO	Η	APs	
		PM10	502			NOX	S	Total	
Portable Heaters	A-1		0.17	0.018	0.012	0.043			
Coolant Tank	A-2			0.0001					
Used Oil Tank	A-2			0.0008					
Diesel Fueling Tank	A-3			0.002					
Emergency Generator Diesel Tank	A-3			0.001					

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Fire Pump Diesel Tank	A-3			0.004			
Kerosene Tank	A-3			0.0008			
Thermal Oil Tank	A-3			0.0008			
Maintenance Welding and Cutting	A-7	0.125					 0.069
Gasoline Fueling Tank	A-13			0.25			
Emergency Fire Pump	A-13	0.12	0.12	0.14	0.38	1.74	0.003

19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

List all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #	
1803-AOP-R8	

20. CONCURRENCE BY:

The following supervisor concurs with the permitting decision.

Paula Parker, P.E.

APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

Fee Calculation for Major Source

Facility Name: Georgia-Pacific Wood Products, LLC Fordyce OSB Permit Number: 1803-AOP-R9 AFIN: 07-00212

\$/ton factor Permit Type	22.65 Modification	Annual Chargeable Emissions (tpy) Permit Fee \$	<u>2094.7</u> 1000
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	Г		
If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$	0		
Total Permit Fee Chargeable Emissions (tpy) Initial Title V Permit Fee Chargeable Emissions (tpy)	-102.6		

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
РМ	N	723.1	615.1	-108	-108	615.1
PM ₁₀	Г	549.1	527.9	-21.2		
SO ₂	v	33.2	33.2	0	0	33.2
VOC	₹	1008.7	1010.1	1.4	1.4	1010.1
со	Г	944.7	944.7	0		
NO _X	ম	423.8	423.8	0	0	423.8
Acetaldehyde	Г	11.68	11.68	0		
Acrolein	Г	4.51	4.51	0		
Benzene	Г	0.43	0.43	0		
Cadmium	Г	0.03	0.03	0		
Formaldehyde	Г	29.43	30.46	1.03		
Hexane	Г	3.76	3.76	0		
Methanol	Г	55.03	55.03	0		
Phenol	Г	10.54	10.54	0		
РОМ	Г	0.0145	0.02	0.0055	1	
Propionaldehyde	Г	0.6	0.6	0		
Vinyl Acetate	Г	5.43	5.43	0		
Combined HAPs	L	.4	4	0		

Revised 08-30-11

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
Acetone	2	8.5	8.5	0	0	8.5
Ammonia	v	0	4	4	4	4
pc 11/21/11	Г	0	0	0		

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