STATEMENT OF BASIS

For the issuance of Air Permit # 1803-AOP-R19 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:

Alexander Sudibjo

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Reconstituted Wood Product Manufacturing
NAICS Code: 321219

5. ALL SUBMITTALS:

Date of Application	Type of Application (New, Renewal, Modification, Deminimis/Minor Mod, or Administrative Amendment)	Short Description of Any Changes That Would Be Considered New or Modified Emissions
7/10/2017	Administrative Amendment	N/A

6. REVIEWER'S NOTES:

With this administrative amendment, the facility is adding a screw conveyor for the sander baghouse as an insignificant activity.

7. COMPLIANCE STATUS:

As of July 10, 2017, there are no compliance issues with the facility.

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? Y

- *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. This permit does not include a major modification as defined by 40 CFR §52.21(b)(2).

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, 18, 19	HAPs	NESHAP Subpart ZZZZ
18	-	NSPS Subpart JJJJ
01A	-	NESHAP DDDDD

10. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

11. AMBIENT AIR EVALUATIONS:

a) Reserved.

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/m^3), 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?
Lead	0.05	0.006	0.03	N
Acetaldehyde	45.04	4.9544	8.30	N

Pollutant	TLV (mg/m^3)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
Acrolein	0.23	0.0253	2.85	N
Benzene	1.60	0.176	1.50	N
Chlorine	1.45	0.160	0.19	N
Formaldehyde	15	1.65	4.85	N
Hexane	176.24	19.3864	0.26	Y
Hydrochloric acid	2.983	0.328	4.56	N
Methanol	262.09	28.8299	16.87	Y
Phenol	19.25	2.1175	3.72	N
Propionaldehyde	47.53	5.2283	0.92	Y
Styrene	85.202	9.372	0.46	Y
Toluene	75.362	8.290	0.62	Y
Vinyl Acetate	35.21	3.8731	1.13	Y
Arsenic	0.01	0.0011	5.31e-3	N
Beryllium	5.0e-5	5.5e-6	2.64e-3	N
Cadmium	0.002	0.0002	1.01e-2	N
Manganese	0.2	0.022	0.41	N
Mercury	0.01	0.0011	8.77e-4	Y
Acetone	1187.12	130.5832	2.57	Y
Ammonia	17.41	1.915	3.00	N

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.
Emissions from emergency sources are not included in the model.

Pollutant	PAIL ($\mu g/m^3$) = 1/100 of Threshold Limit Value	Modeled Concentration ($\mu g/m^3$)	Pass?
Lead	0.5	0.026	Y
Acetaldehyde	450.41	31.76	Y
Acrolein	2.3	0.304	Y
Benzene	15.98	0.139	Y
Chlorine	14.5	0.017	Y
Formaldehyde	15.0*	10.528	Y
Hydrochloric acid	29.83	0.394	Y
Phenol	192.5	1.369	Y
Arsenic	0.1	4.7e-4	Y
Beryllium	5.0e-4	3.0e-4	Y
Cadmium	0.02	1.14e-3	Y
Manganese	2.0	0.039	Y
Ammonia	174.1	65.76	Y

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	Stack Testing (March 2008 and Feb 2013)	<u>Units in lb/ODT</u> PM (filterable): 3.96e-1 PM (condensable): 3.94e-1 PM_{10}: 7.9e-1 NOx: 8.03e-1 CO: 4.94e-1 VOC: 2.01e-1	2 RTOs & multiclones	85% (PM/PM_{10}) 90% (VOC) 40% (CO) 90% (HAPs)	695,009 ODT/yr 79 ODT/hr 1,752,000 MMBtu/yr 200 MMBtu/hr 412 MMscf/yr 4.71e-2 MMscf/hr
	NCASI Wood Products (Feb 2013)	SO_2: 1.9e-2 lb/ODT Lead: 7.16e-5 lb/ODT Various HAPs			
01	AP-42, 1.4	SO_2: 0.72 lb/MMscf			

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
Natural Gas Emissions		Lead: 6.0e-4 lb/MMscf Various HAPs			20% Safety Factor
01 Wood Residuals	AP-42, 1.6	Lead: 5.76e-5 lb/MMBtu Various HAPs			
01A	AP-42, 1.4	<u>Units in lb/MMscf</u> PM (condensable): 6.84 PM (filterable): 2.28 PM_{10}: 9.12 NOx: 120 CO: 101 SO_2: 7.2e-1 VOC: 6.6 Lead 6.0e-4 Various HAPs	None	N/A	515 MMscf/yr 5.88e-2 MMscf/hr 20% Safety Factor
02 OSB Press	Uncaptured Emissions NCASI Wood Products (Jan + Feb 2013)	<u>Units in lb/MSF</u> PM (filterable): 2.81e-1 PM (condensable): 2.76e-1 $PM_{10}/PM_{2.5}$: 5.57e-1 CO: 7.89e-2 NOx: 6.73e-2 VOC: 1.79 Various HAPs	Multiclones RTO/TCO	75% (PM) 90% (VOC) 75% (CO) 95% capture efficiency	600,000 MSF/yr 90 MSF/hr 103 MMscf/yr 0.0118 MMscf/hr 20% Safety Factor
	Captured Emissions NCASI Wood Products (Jan + Feb 2013)	<u>Units in lb/MSF</u> PM (filterable): 3.3e-2 PM (condensable): 5.24 e-2 $PM_{10}/PM_{2.5}$: 8.53e-2 CO: 7.89e-2 NOx: 6.73e-2 VOC: 6.79e-2			
02 RTO (Natural Gas)	AP-42, 1.4	0.72 lb/MMscf SO_2 Various HAPs			
02 OSB Press	Manufacturer's Info	Force Field component MSDS		95.21% (VOC)	20 MMSF production
03	Stack Testing (2005)	4.8e-1 lb/hr PM (filterable)	Bag Filter	80.00% for PM/PM_{10}	600,000 MSF/yr

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
	NCASI Wood Products (Feb 2013)	1.97e-3 lb/MSF PM (condensable) 7.05e-2 lb/MSF VOC Various HAPs		99.96% for PM/PM_{10}	90 MSF/hr 13,623 dscfm 20% Safety Factor
04	Stack Testing (2005)	1.5e-3 gr/dscf PM (filterable)	Receiver	80.00% for PM/PM_{10}	600,000 MSF/yr 90 MSF/hr 24,084 dscfm 20% Safety Factor
	NCASI Wood Products (Feb 2013)	1.97e-3 lb/MSF PM (condensable) 7.05e-2 lb/MSF VOC Various HAPs	Bag Filter	99.83% for PM/PM_{10}	
05	Stack Testing (2005)	1.70e-3 gr/dscf PM (filterable)	Receiver	80.00% for PM/PM_{10}	600,000 MSF/yr 90 MSF/hr 33,800 dscfm 20% Safety Factor
	NCASI Wood Products (Feb 2013)	1.97e-3 lb/MSF PM (condensable) 7.05e-2 lb/MSF VOC Various HAPs	Bag Filter	99.83% for PM/PM_{10}	
06	Stack Testing (2005)	3.0e-3 gr/dscf PM (filterable)	Receiver	80.00% for PM/PM_{10}	600,000 MSF/yr 90 MSF/hr 15,175 dscfm 20% Safety Factor
	NCASI Wood Products (Feb 2013)	1.97e-3 lb/MSF PM (condensable) 7.05e-2 lb/MSF VOC Various HAPs	Bag Filter	99.88% for PM/PM_{10}	
07	Stack Testing (2005)	6.9e-3 gr/dscf PM	Receiver	80.00% for PM/PM_{10}	600,000 MSF/yr 90 MSF/hr 835 dscfm 20% Safety Factor
	AP-42, Table 10.6.1-7	1.45e-1 lb/MSF VOC 8.76e-4 lb/MSF Methanol	Bag Filter	99.96% for PM/PM_{10}	
08	Stack Testing (2005)	5.3e-3 gr/dscf PM (filterable)	Receiver	80.00% for PM/PM_{10}	695,009 ODT/yr 79 ODT/hr 600,000 MSF/yr 90 MSF/hr 14,248 dscfm 20% Safety Factor
	NCASI Wood Products (Feb 2013)	4.7e-3 lb/ODT PM (condensable) Various HAPs			
	AP-42, 10.6	6.84e-2 lb/MSF VOC	Bag Filter	99.46% for PM/PM_{10}	

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)			Control Equipment	Control Equipment Efficiency	Comments
09	Stack Testing (2005)	3.2e-3 gr/dscf PM/PM_{10}			Receiver	80.00% for PM/PM_{10}	600,000 MSF/yr 90 MSF/hr 13,623 dscfm 20% Safety Factor
	AP-42, 10.6	1.45e-1 lb/MSF VOC 9.0e-4 lb/MSF Methanol			Bag Filter	99.96% for PM/PM_{10}	
10	AP-42, 10.3	0.024 lb/ton PM 0.011 lb/ton PM_{10}			None	N/A	<u>Debarker throughput</u> 1,178,220 ton logs/yr 135 ton logs/hr <u>Bark Hog throughput</u> 117,822 ton bark/yr 13 ton bark/hr
11 Inside Spray Booth	Technical Data Sheets	PM/PM_{10}: 2.75e-2 lb/gal VOC: 3.1e-1 lb/gal Ammonia: 8.5e-2 lb/gal			Filter/ Enclosure	98%	85,324 gal/yr 0.18 gal/MSF 8.5 lb/gal 54% solids content 70% sprayer efficiency 20% Safety Factor
11 Outside Spray Booth	Technical Data Sheets	PM/PM_{10}: 5.61e-1 lb/gal VOC: 3.1e-1 lb/gal Ammonia: 8.5e-2 lb/gal			Filter/ Enclosure	75%	7,833gal/yr 0.018 gal/MSF 8.5 lb/gal 66% solids content 60% sprayer efficiency 20% Safety Factor
12 Roads	AP-42, Section 13.2.1 Paved Roads	PM PM_{10}	<u>sL</u> 0.74 0.74	<u>k</u> 0.011 0.0022	Sweeping, water truck, speed limits	N/A	@365 days/yr 334.3 mile/day 122,006.5

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)			Control Equipment	Control Equipment Efficiency	Comments
							mile/yr No rain
	AP-42, Section 13.2.2 Unpaved Roads and measured silt data	PM PM_{10}	sL 1.5 1.5	k 4.9 1.5			@365 days/yr 82.9 mile/day 30,243.9 mile/yr 105 days rain
13	NCASI TB 424 Section 13.2.4	8.150 lb PM/day/acre 0.650 acre 7.5% silt # dry days: 260 days/yr % Time Wind = 13			None	N/A	Outside Bark Storage
14	OSHA Testing indicates 0.21 ppm VOC/HCHO	0.21 ppm VOC 0.21 ppm CH_2O Fan Speed 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 $MMft^3/min$
15	MSDS	0.22% by wt content VOC 0.10% by wt Acetaldehyde 0.03% by wt CH_2O 0.07% by wt Methanol 0.10% by wt Vinyl Acetate			None	N/A	7,884,000 panels/yr 900 panels/hr 1.25 lb adhesive/panel
16	NCASI Wood Products (Feb 2013)	PM (filterable): 2.76e-3 lb/ODT PM_{10}/ $PM_{2.5}$: 5.24e-3 lb/ODT :5.24e-3 lb/ODT Various HAPs			None	N/A	20% Safety Factor 600,000 MSF/yr 90 MSF/hr 695,009 ODT/yr 79 ODT/hr
	AP-42, Table 10.6.1-7 (03/2002) Blender PF &	VOC: 1.92e-1 lb/MSF					

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
	MDI				
17	AP-42, 3.4	Units in lb/HP-hr PM (filterable): 8.4e-4 PM (condensable): 5.39e-5 PM_{10}/ $PM_{2.5}$: 8.94e-4 NOx: 2.88e-2 SO2: 1.46e-5 CO: 6.6e-3 VOC: 8.46e-3 Various HAPs	None	N/A	20% Safety Factor 1,341 HP 9.4 MMBtu/hr 500 hr/yr
18	40 CFR 90.103	CO: 519 g/kW-hr NOx: 13.4 g/kW-hr	None	N/A	20% Safety Factor 17 kW 0.23 MMBtu/hr 500 hr/yr
	AP-42, 3.2-3	Units in lb/MMBtu PM/PM_{10}: 2.33e-1 SO_2: 7.06e-4 VOC: 3.55e-2 Various HAPs			
19	AP-42, 3.3	Units in lb/MMBtu PM/PM_{10}: 3.72e-1 NOx: 5.29 SO_2: 3.48e-1 CO: 1.14 VOC: 4.32e-1 Various HAPs	None	N/A	20% Safety Factor 1.86 MMBtu/hr 266 HP 500 hr/yr
20	Wash Water Sample Analysis	TOC content: 1,668.82 mg/L	None	N/A	2,268,000 gal/yr capacity
	AP-42, 1.4	Units in lb/MMscf PM: 7.6 PM_{10}: 5.7 NOx: 100 SO_2: 0.6 CO: 84 VOC: 5.5	None	N/A	2.95 MMBtu/hr NG burner

13. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

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	CEM	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

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	CEM	At least every 15 minutes & reduce the data to 3-hour block average to confirm compliance with minimum temps	Y

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
	operating temperature			
01	Isolation Damper	CEM	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
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	SSM Plan, SAM Reports and immediate reports of malfunctions	Report 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

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
01	Minimum Operating Temperature of RTO A & RTO B	Based on Minimum Temperature recorded during March 2008 performance test, 1550 °F and 1552 °F, respectively, until subsequent tests establish new minimum temp.	Every 15 minutes & reduce the data to 3-hour block average, Record Daily	N
01 & 02	Inlet Fan Static Pressure readings	n/a	Recorded hourly and averaged every 12 hours.	N
01A	Venting to Atmosphere and Fuel used	Only Natural Gas allowed to vent directly to atmosphere	As occurs	N
02	Minimum Operating 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 documentation	17.4 tpy	Monthly	N
		0.31 VOC/gal	On going	
	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	Ongoing	

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
11	Notification	According to the schedule in 40 CFR §63.2280 and according to 40 CFR Part 63, Subpart A	Ongoing	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 in grams HAP/liter solids (lb HAP/gal solids) is 1. 0 (0.00) 2. 0 (0.00) 3. 5 (0.04) 4. 0 (0.00) 5. 57 (0.48)	Monthly and 12 month rolling	N
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	Hours of Operation	Nte 500 operating hours per calendar year, based on non-resettable hour meter	As Necessary	N
18	Hours of Operation	Nte 500 operating hours per calendar year, based on non-resettable hour meter	As Necessary	N
19	Hours of Operation	Nte 500 operating hours per calendar year, based on non-resettable hour meter	As Necessary	N

16. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
01 and 02	10%	§18.501 and A.C.A.	Weekly Observations
01 and 02	20%	§19.503 and A.C.A.	Daily Observation During "Bakeout"

SN	Opacity	Justification for limit	Compliance Mechanism
03 thru 09	10%	§18.501 and A.C.A.	Weekly Observations
10	20%	§19.503 and A.C.A.	Weekly Observations
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
18	5%	§18.501 and A.C.A.	Use of propane as fuel
19	20%	§19.503and A.C.A.	Use of diesel fuel only
20	5%	§18.501 and A.C.A.	Use of natural gas as fuel

17. DELETED CONDITIONS:

Former SC	Justification for removal
None	

18. GROUP A INSIGNIFICANT ACTIVITIES:

Source Name	Group	Emissions (tpy)						
		PM/ PM_{10}	SO_2	VOC	CO	NO_X	HAPs	
							Single	Total
Portable Heaters	A-1	0.004	0.156	0.017	0.011	0.040	--	--
Used Oil Tank (200 gal)	A-2	--	--	0.0009	--	--	--	--
Diesel Fueling Tank (3,000 gal)	A-3	--	--	0.003	--	--	--	--
Emergency Generator Diesel Tank (2,000 gal)	A-3	--	--	0.0009	--	--	--	--
Fire Pump Diesel Tank (4,600 gal)	A-3	--	--	0.004	--	--	--	--
Kerosene Tank (291 gal)	A-3	--	--	0.0009	--	--	--	--
Thermal Oil Tank (1,000 gal)	A-3	--	--	0.0009	---	--	--	--
Coolant Tote (451 gal)	A-3	--	--	0.0004	---	--	--	--
Maintenance Welding and Cutting	A-7	0.125	--	--	--	--	0.07	0.07

Source Name	Group	Emissions (tpy)						
		PM/ PM_{10}	SO_2	VOC	CO	NO_X	HAPs	
							Single	Total
Gasoline Fueling Tank (600 gal)	A-13	--	--	0.25	--	--	0.25	0.25
Two (2) MDI Resin Tank (20,000 gal)	A-13	--	--	2e-7	--	--	5e-7	5e-7
Sanderdust Truck Loading	A-13	2.82e-3						

19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

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

Permit #
1803-AOP-R18

APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

Fee Calculation for Major Source

Revised 03-11-16

Facility Name: Georgia-Pacific Wood Products, LLC
d/b/a/ Fordyce OSB
Permit Number: 1803-AOP-R19
AFIN: 07-00212

$/ton factor	23.93	Annual Chargeable Emissions (tpy)	2210.9
Permit Type	AA	Permit Fee $	0

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)	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.)*

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
PM		566.6	566.6	0	0	566.6
PM_{10}		519.3	519.3	0		
$PM_{2.5}$		0	0	0		
SO_2		34.7	34.7	0	0	34.7
VOC		1146.6	1146.6	0	0	1146.6
CO		952.5	952.5	0		
NO_X		427.8	427.8	0	0	427.8
Lead	☐	0.09	0.09	0		

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
Acetaldehyde	☐	35.96	35.96	0		
Acrolein	☐	12.34	12.34	0		
Benzene	☐	6.38	6.38	0		
Chlorine	☑	0.83	0.83	0	0	0.83
Formaldehyde	☐	19.33	19.33	0		
Hexane	☐	1.13	1.13	0		
Hydrochloric Acid	☑	20	20	0	0	20
Methanol	☐	61.65	61.65	0		
Phenol	☐	14.89	14.89	0		
Propionaldehyde	☐	3.82	3.82	0		
Styrene	☐	2	2	0		
Toluene	☐	2.57	2.57	0		
Vinyl Acetate	☐	4.93	4.93	0		
Arsenic	☐	0.05	0.05	0		
Beryllium	☐	0.02	0.02	0		
Cadmium	☐	0.07	0.07	0		
Manganese	☐	1.7	1.7	0		
Mercury	☐	0.03	0.03	0		
Combined HAPs	☐	4.9	4.9	0		
Acetone	☑	9.47	9.47	0	0	9.47
Ammonia	☑	4.9	4.9	0	0	4.9
	☐	0	0	0		
	☐	0	0	0		
	☐	0	0	0		
	☐	0	0	0		
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