Permit No. 2975 and PSD-TX-778M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission *	Source	Air Contaminant	<u>Emissic</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
SM01	No. 1 Smelt Tank Scrubber	TSP PM ₁₀ VOC (note b) SO ₂ SO ₃ TRS (note a) NO _x NH ₃	10.9 10.9 3.3 7.5 0.2 1.8 1.8 2.1	47.7 47.7 14.3 24.7 0.9 7.9 7.9 8.9
SMO2**	No. 2 Smelt Tank Scrubber	TSP PM ₁₀ VOC SO ₂ SO ₃ TRS NO _x NH ₃	18.9 18.9 6.0 13.4 0.4 3.1 3.3	82.6 82.6 26.1 58.7 1.9 13.9 14.3
CLT01, WLT01, an		No. 1 Black L	iquorVOC	1.7
HLT01	7.5 Storage Tank (5)	TRS	1.1	5.0
CLTO2, WLTO2, an		No. 2 Black L	iquorVOC	2.1
HLT02	9.3 Storage Tanks (5)	TRS	1.4	6.2
SCT01 and SS01	No. 1 Soap Tanks (5)	VOC TRS	0.5 0.3	2.2 1.5

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Emission *	Source	Air	Contaminant		<u>Emissi</u>	on Rates
- Point No. (1)	Name (2)		Name (3)	_	1b/hr	TPY
SCT02, SST02, a	ınd		No. 2 Soap	- Tanks		VOC
SS02			1.7 TRS		7.2 1.1	4.8
FOTO2 and FORTO	1 Fuel Oil Tanks (5)	TRS	VOC 0.5		0.7 2.1	3.1
BAT01	No. 1 Boiler Ash Ta 5.3	nk (5	5)	V	OC	1.2
			TRS		1.2	5.3
PATO1	No. 1 Precipitator Ash Tank (5)		VOC TRS		1.2 1.6	5.3 7.0
(note c)	Misc. Black Liquor ervice Vessels (5)		VOC TRS		2.8 1.9	12.4 8.4
PB02	Power Boiler No. 2		TSP PM_{10} VOC NO_x SO_2 CO	1 3 7	11.0 11.0 76.4 32.0 70.0 37.0	486.2 486.2 334.6 1454.2 3372.6 5856.0
LK02**	Lime Kiln No. 2 PM ₁₀	VOC	TSP 26.3 NO _x SO ₂ SO ₃ CO TRS 4.0	1	26.3 15.2 33.3 1.2 0.2 4.2 2.5 17.5	115.2 145.9 5.3 1.1 18.5 11.1

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Emission	Source	Air	Contaminant	<u>Emissi</u>	on Rates
<u>*</u> Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
BG01	Lime System Baghouse	No.	1	TSP	1.0
	4.3		PM_{10}	1.0	4.3
BG02	Lime System Baghouse 4.3	No.	2	TSP	1.0
	4.5		PM_{10}	1.0	4.3
LS01**	No. 1 Lime Slaker	PM ₁₀	TSP 0.2	0.2 1.0	1.0
		NH ₃	7.6	33.1	
LS02**	No. 2 Lime Slaker	PM ₁₀	TSP 0.2	0.2 1.0	1.0
		NH ₃	14.1	61.8	
CP01	No. 1 Causticizier Tanks (5)		NH ₃	2.1	9.1
CP02	No. 2 Causticizier Tanks (5)		NH ₃	3.9	17.0
(note f)	A-Line Brown Stock Washer (5)		VOC TRS	28.2 28.3	123.1 124.5
(note g)	B-Line Brown Stock Washer (5)	CO	VOC TRS 6.0	80.6 30.2 26.3	352.9 133.4
BP14	B-Line Bleach Plant Scrubber (North) (5)	VOC	Cl ₂ /ClO ₂ CO 2.1 TRS	4.3 19.2 9.2 0.1	18.9 84.3
			באוו	0.1	0.2

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Emission	Source	Air Contaminant	<u>Emiss</u>	ion Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)	Name (3)	lb/hr	TPY
BP15	B-Line Bleach Plant Scrubber (South) (5)	C1 ₂ /C10 ₂ C0	4.3 19.2	18.9 84.3
		OC 2.1	9.2	
		TRS	0.1	0.2
BP16	A-Line Bleach Plant Scrubber (5)	C1₂/C10₂ C0	12.1 26.3	52.9 115.0
		/OC 2.9 TRS	12.6 0.1	0.3
DD0.3.5.1	Mathaual Ctauana Taul			
BP0351	Methanol Storage Tank	c CH₃OH	0.3	1.4
BP0368	Hydrogen Peroxide Tar	ık H ₂ O ₂	<0.1	0.2
WLOXT1	White Liquor (5)	NH_3	0.1	0.4
EX5 and EX7 (note j)	Extruder Vents and Fugitives (4)	VOC NO _x CO 3.2	6.4 1.2 13.9	28.0 5.3
PM1 and PM3d	Paper Machines Nos. 1		29.0	127.0
(note k)	and 3 (5)	NO_x	0.1 1.0	0.4
		CO		4.4
RB01A	No. 1 Recovery Boiler North Stack ***	PM_{10}	30.9 30.9	135.3 135.3
		VOC NO _x	10.4 34.7	45.6 152.1
		SO_2 SO_3	172.0 0.7	251.1 3.1
		CO	325.4	1425.1
		TRS	6.7	29.3

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
_ <u>Point No.</u>	(1) Name (2)	Name (3)	lb/hr TPY
RBO1B	No. 1 Recovery Boi	PM ₁₀ VOC NO _x SO ₂ SO ₃ CO TRS	30.9 135.3 30.9 135.3 10.4 45.6 34.7 152.1 172.0 251.1 0.7 3.1 325.4 1425.1 6.7 29.3
RBO2A**	No. 2 Recovery Boi [°] West Stack ***	ler TSP PM ₁₀ VOC NO _x SO ₂ SO ₃ CO TRS	42.5 176.9 42.5 176.9 23.9 99.5 112.4 467.7 377.0 522.8 14.1 19.6 218.5 908.9 3.3 13.9
RBO2B**	No. 2 Recovery Boi [°] East Stack ***	PM ₁₀ VOC NO _x SO ₂ SO ₃ CO TRS	42.5 176.9 42.5 176.9 23.9 99.5 112.4 467.7 377.0 522.8 14.1 19.6 218.5 908.9 3.3 13.9
NCG01**	NCG Oxidation Unit Scrubber	VOC NO_x SO_2 CO	<0.1 0.3 3.1 13.6 16.0 70.1 6.6 29.0

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		SO₃	6.0	26.3
		TRS	0.9	4.0
NCG02**	Condensate Tank	TRS	<0.1	0.4
REJCYC1A and	Reject Cyclones	TSP	1.6	7.0
REJCYC1B	(note h) (5)	PM_{10}	1.6	7.0
		VOC	1.1	5.0
		TRS	<0.1	0.1
(note e)	Material Handling and	TSP	1.7	7.5
,	Misc. Vessels (4)	PM_{10}	0.8	3.4
	NH	3 6.0	26.2	
NCGF1**	NCG Fugitives (4)	TRS	0.4	1.6
CPS1	Misc. Wood Handling	TSP	16.2	63.0
(note i)	Fugitives (4)	PM_{10}	8.2	28.0
BP01	Bleach Plant	C1 ₂	0.2	1.0
DI OI	Fugitives (4)	C10 ₂	0.2	1.0
DTC1	Patch Disastas	VOC	1 6	7 1
DIG1	Batch Digestor Fugitives (4)	VOC TRS	1.6 0.6	7.1 2.5
	rugicives (+)	1113	0.0	L. J
WWTS1	Waste Water Treatment	VOC	8.1	35.2
	Fugitives (4)	TRS	8.9	39.0

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from plot plan.

⁽²⁾ Specific point source name. For fugitive sources use area name or fugitive source name.

⁽³⁾ $T\tilde{SP}$ - total suspended particulate, including PM_{10} .

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr TPY
PM_{10}	- particulate matter less	s than 10 microns in d	iameter.
VOC	 volatile organic compou 	ınds as defined in Gen	eral Rule 101.1
SO_2	- sulfur dioxide		
SO₃	- sulfur trioxide		
TRS	- total reduced sulfur		
NO_x	- nitrogen oxides		
NH_3	- ammonia		
$C1_2$	- chlorine		
$C10_2$	- chlorine dioxide (chlor	ine peroxide)	
CO	- carbon monoxide		
H_2S	- hydrogen sulfide		
CH₃OH	- methanol		
H_2O_2	- hydrogen peroxide		
(4) [المال معام المصم بالأمرم معمسة	الممسملة فمسمم مما يعمما

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The VOC and TRS emission rates for this point are considered to be estimates only and are not intended to be enforceable limits.
 - * Unless otherwise specified, emission rates are based on operating 8,760 hours per year or 817,803 air dried unbleached tons per year (736,022 bone dry unbleached tons per year) of pulp.
 - ** These facilities are also covered by PSD-TX-778M1.
- *** Emissions from the Nos. 1 and 2 Recovery Boilers are split between the two stacks for accounting purposes. The emission rates from the boilers are limited to the sum of the emissions from the two stacks rather than each stack, since the individual stack emissions may vary.

Notes:

- (a) All TRS emission rates are reported as H_2S unless otherwise specified.
- (b) All VOCs are reported as carbon unless otherwise specified.
- (c) Black Liquor Digestor Fill Tank (BLDF01), Spill Collection Tank

(CT01), Swing Tank (ST01), Spare Liquor Storage (SLST01), Evaporator Boil-Out Tank (BOR01), Black Liquor Dump Tank (DT01), and Weak Liquor Soap Concentrator Tank (WLSC01).

- (d) The SO_2 hourly rates for the power boiler are based on combustion of total reduced sulfur compounds during periods when the NCG oxidizer is inoperable.
- (e) Green liquor clarifiers (2), green liquor storage tanks (3), weak wash storage tanks (2), white liquor clarifiers (2), white liquor storage tanks (4), white liquor/digestor fill tank, mud washers (2), conveyors, elevators, hot lime silos (2), and spare liquor storage tank (SLSTO1) when used to store white liquor.
- (f) Consists of the washers, screen dilution tank, decker hood and seal pit, washed stock chest, low density chest, waste stock chest, and brown stock high density tanks (2).
- (g) Consists of the washers, screen dilution tank, decker hood and seal pit, washed stock chest, low density chest, waste stock chest, and the oxygen blow tank (with its associated equipment: the roll press, press level tank, press filtrate tank, and the surge tank).
- (h) Only one cyclone will be in operation at a time.
- (i) These fugitives occur from the chip handling operations, the log processing, and from the rejects bin.
- (j) Includes the pre-treater stacks (2), the laminator stacks (2), the post-treater stack, and fugitives.
- (k) The Nos.1 and 3 Paper Machines consist of 18 exhaust vents and fugitive emissions.

Dated ____