NO₂ BART 24-Hour Short Term Emission Rates at the Packaging Corporation of America Valdosta, Georgia Mill

Emission Unit	ISCST3 Modeling ID	Time Period	Maximum Rated Capacity		Max Fuel Use/time period	in the second se	Max Emission Factor		lb/hour or time period	NO ₂ Emission Rate (g/sec)	Basis for Emission Rate
C.E. Combination Boiler			1.62	Mgal/hr	5.418	Mgal/24hr	47	lb/Mgal #6 Fuel Oil	254.65		Based on maximum daily No. 6 fuel oil usage for baseline period. Assume no control from Over-Fired Air Project.
243 MMBtu/hr					530.3	tons/24 hours	0.22	lb/MMBtu	1049.99		50% Bark moisture assumed for 4,500 Btu/lb
		Total 24-hr	Maximum Actual						1304.64		based on bark firing for 19+-hrs and oil firing for 3+-hrs
		 	al Hourly Average						54.36	6.85	lb/hr and g/sec emission rates for 24-hour air quality modeling based on oil firing for 3-hrs
		 	Maximum Actual	<u> </u>					228.42 76.14	9.59	lb/hr and g/sec emission rates for 3-hour air quality modeling
Riley Bark Boiler		Maximum Actua	al Hourly Average	Mgal/hr	10.206	Mgal/24hr	47	lb/Mgal #6 Fuel Oil	479.68	9.39	Based on maximum daily fuel oil usage for baseline period. Assume no control
			2.4	Mgal/III							from Over-Fired Air Project. 50% Bark moisture assumed for 4,500 Btu/lb
360 MMBtu/hr	· · · · · · · · · · · · · · · · · · ·				785.7	tons/24 hours	0.22	lb/MMBtu	1555.69		based on bark firing for 19-hrs and oil firing for 4-hrs
BART Source			Maximum Actual al Hourly Average						2035.37 84.81	10.69	lb/hr and g/sec emission rates for 24-hour air quality modeling
			Maximum Actual						338.40	10.00	based on oil firing for 3-hrs
			al Hourly Average	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			112.80	14.21	lb/hr and g/sec emission rates for 3-hour air quality modeling
C.E. Power Boiler Stack	CEPBS		1.2333	Mgal/hr	31.5252	Mgal/24hr	47	lb/Mgal #6 Fuel Oil			Based on maximum daily fuel oil usage for baseline period.
			Maximum Actual				· · · · · · · · · · · · · · · · · · ·		1391.16		lb/hr and g/sec emission rates for 24-hour air quality modeling
		the state of the s	al Hourly Average						57.97 173.90	7.30	based on oil firing for 3-hrs
			Maximum Actual al Hourly Average	 					57.97	7.30	lb/hr and g/sec emission rates for 3-hour air quality modeling
#1 Recovery Furnace Stack	#1RFS	Pruximum Actui	249.4	MMBtu/hr	3.03	Mgal/24-hr	47	lb/Mgal #6 Fuel Oil	3/10//	1 /1.50	based on the maximum daily total Recovery Furnace fuel usage of 238.5 bbl/day and using a ratio of the heat inputs to distribute fuel usage.
							,		4' 4.4'		and a say of the paper of additional two made.
					3.03	Mgal for 2-hr	47	lb/Mgal #6 Fuel Oil	142.41		
		Total 24 ha	Maximum Actual		473.00	Tons BLS/hr*22hr	0.1	lb/MMBtu	548.68 691.09		based on BLS firing for 22-hrs and oil firing for 2-hrs
			al Hourly Average						28.80	3,63	lb/hr and g/sec emission rates for 24-hour air quality modeling
			Maximum Actual		*		* * * * * * * * * * * * * * * * * * *		144.56		based on BLS firing for 1-hr and oil firing for 2-hrs
		the contract of the contract o	al Hourly Average	* * * * * * * * * * * * * * * * * * * *					48.19	6.07	lb/hr and g/sec emission rates for 3-hour air quality modeling
#2 Recovery Furnace Stack	#2RFS		249.4	MMBtu/hr	3.03	Mgal/24-hr	47	lb/Mgal #6 Fuel Oil			based on the maximum daily total Recovery Furnace fuel usage of 238.5 bbl/day and using a ratio of the heat inputs to distribute fuel usage.
		* *************************************			3.03	Mgal for 2-hr	47	lb/Mgal #6 Fuel Oil	142.41		
					473.00	Tons BLS/hr*22hr	0.1	lb/MMBtu	548.68		based on BLS firing for 22-hrs and oil firing for 2-hrs
			Maximum Actual						691.09 28.80	3.63	lb/hr and g/sec emission rates for 24-hour air quality modeling
			al Hourly Average Maximum Actual						144.56	3.03	based on BLS firing for 1-hr and oil firing for 2-hrs
			al Hourly Average						48.19	6.07	lb/hr and g/sec emission rates for 3-hour air quality modeling
#3 Recovery Furnace Stack	#3RFS		324.8	MMBtu/hr	3.95	Mgal/24-hr	47	lb/Mgal #6 Fuel Oil			based on the maximum daily total Recovery Furnace fuel usage of 238.5 bbl/da and using a ratio of the heat inputs to distribute fuel usage.
BART Source					3.95	Mgal for 2-hr	47	lb/Mgal #6 Fuel Oil	185.65		
	1 \		· · · · · · · · · · · · · · · · · · ·		622.60	Tons BLS/hr*22hr	0.1	lb/MMBtu	722.22		
		Total 24-hr	Maximum Actual						907.87		based on BLS firing for 22-hrs and natural gas firing for 2-hrs
			al Hourly Average						37.83	4.77	lb/hr and g/sec emission rates for 24-hour air quality modeling based on BLS firing for 1-hr and oil firing for 2-hrs
			Maximum Actual					ļ	188.48	7.03	lb/hr and g/sec emission rates for 3-hour air quality modeling
	#10DT0	Maximum Actu	al Hourly Average	, , , , , , , , , , , , , , , , , , , 	£14.04	tone DI C/don	0	lb/ton BLS	62.83 0.00	7.92 0.00	0.016 lb/ton BLS & Title V Maximum Process Rate from Mill max 24-hr period
#1 Smelt Dissolving Tank Stack	#1SDTS		<u> </u>		514.84	tons BLS/day	U	IO/IOH DL3			throughput based on incremental increase associated with the project
		m Actual and 24-hr	Maximum Actual		16011	Dr 0/1		11. // D. C.	0.00	0.00	based on incremental increase associated with the project 0.016 lb/ton BLS & Title V Maximum Process Rate from Mill max 24-hr period
#2 Smelt Dissolving Tank Stack	#2SDTS		<u> </u>		460.14	tons BLS/day	0	lb/ton BLS	0.00	0.00	throughput
		m Actual and 24-hr	Maximum Actual						0.00	0.00	based on incremental increase associated with the project
#3 Smelt Dissolving Tank Stack	#3SDTS				652.33	tons BLS/day	0	lb/ton BLS	0.00	0.00	0.016 lb/ton BLS & Title V Maximum Process Rate from Mill max 24-hr period throughput
BART Source	3-hr Maximun	m Actual and 24-hr	Maximum Actual				4		0.00	0.00	based on incremental increase associated with the project
#4 Lime Kiln Stack	#4LKS		108	MMBtu/hr	15.16	Mgal/24-hr	47	lb/Mgal #6 Fuel Oil			based on the maximum daily total Lime Kiln fuel usage of 360.9 bbl/day and equates to 21 hours of oil firing at max heat input.
			fuel oil		0.72	Mgal/hr	47	lb/Mgal #6 Fuel Oil	710.64		This value is the sum of the daily emissions rate over a 21-hour period
			natural gas		0.10	MMcf/hr	0.6	lb/MMcf	0.19		3 hours per day of natural gas to make up 24 hours total.
		Total 24-hr	Maximum Actual		<u> </u>				710.83		Total emissions summed over 24-hours of 21 hours of oil and 3 hours of natural
			al Hourly Average						29.62	3.73	firing. Hourly average emissions based on fuel oil firing for 21-hrs and natural gas firing the continuous continuous for the continuous firing for 21-hrs and natural gas firi
			Maximum Actual						101.52		for 3-hrs. Total emissions summed over 3-hours of oil firing.
			al Hourly Average	<u> </u>					33.84	4.26	Hourly average emissions based on fuel oil firing for 3-hrs.
Non-Condensable Gas Incinerator Stack	NCGIS	HAUAIMUM ACIU	l IIIIII AVEIUSE		- 			 	22.07	1	
Condendate Sas Intellerator Stack		1	Maximum Actual	<u> </u>	0.23	lb/ADTUBP	1550	ADTP per day	14.85	1.87	lb/hr and g/sec emission rates for 24-hour air quality modeling