

Appendix H2: Stationary Source Emissions Estimates

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Appendix H2, Sheet 01: Emissions Summary

Table 1: Phase 1 Stationary Source Emissions						
Source	Maximum Emissions (Pounds Per Day)					
	VOC	NOx	CO	SO2	PM10	PM2.5
Tray Shrink Packers	0.1	1.0	0.3	0.0	0.1	0.1
Boilers	2.1	3.4	6.7	0.4	4.5	4.5
Emer Gen	2.1	21.5	2.8	0.0	0.4	0.4
Total	4.3	26.0	9.8	0.4	4.9	4.9

Table 2: Phase 2 Stationary Source Emissions						
Source	Maximum Emissions (Pounds Per Day)					
	VOC	NOx	CO	SO2	PM10	PM2.5
Tray Shrink Packers	0.1	1.0	0.3	0.0	0.1	0.1
Boilers	4.3	6.9	13.3	0.7	8.9	8.9
CHP Generators	7.4	5.2	14.8	0.4	6.7	6.7
Emer Gen	2.1	21.5	2.8	0.0	0.4	0.4
Total	13.9	34.6	31.2	1.1	16.0	16.0

Appendix H2, Sheet 02: Tray Shrink Packers Emissions Estimates

TABLE 1: SOURCE INFORMATION

Source	Manufacturer	Model	Amount	Operating Hours	
				Day	Annual
Tray Shrink Packers	--	--	3	16	11,520

Source: Reyes Coca Cola (2024)

Note: Operating hours assume 16 hours per day, 240 days per year

TABLE 2: NATURAL GAS CONSUMPTION ESTIMATES

Source	Rated Fuel Input Capacity (SCF)		
	Per Hour	Per Day	Per Year
Tray Shrink Packer (1)	167	2,672	1,923,840

Source	Rated Fuel Input Capacity (MMBTU)		
	Per Hour	Per Day	Per Year
Tray Shrink Packer (1)	0.17	2.75	1,981.56

Source: Reyes Coca Cola (2024)

TABLE 3: EMISSION FACTORS

Source	SCAQMD Pollutant Emission Factors (lbs/MMSCF)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Tray Shrink Packer	7.00	130.00	35.00	0.60	7.50	7.50

Source: Cleaver Brooks (2023)

TABLE 4: EMISSIONS ESTIMATES

Source	Maximum Emissions (Pounds per Hour)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Tray Shrink Packer	0.001	0.022	0.006	0.000	0.001	0.001
Tray Shrink Packer	0.001	0.022	0.006	0.000	0.001	0.001
Tray Shrink Packer	0.001	0.022	0.006	0.000	0.001	0.001
Total	0.004	0.065	0.018	0.000	0.004	0.004

Source	Maximum Emissions (Pounds per Day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Tray Shrink Packer	0.019	0.347	0.094	0.002	0.020	0.020
Tray Shrink Packer	0.019	0.347	0.094	0.002	0.020	0.020
Tray Shrink Packer	0.019	0.347	0.094	0.002	0.020	0.020
Total	0.056	1.042	0.281	0.005	0.060	0.060

Source	Maximum Emissions (Pounds per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Tray Shrink Packer	13.467	250.099	67.334	1.154	14.429	14.429
Tray Shrink Packer	13.467	250.099	67.334	1.154	14.429	14.429
Tray Shrink Packer	13.467	250.099	67.334	1.154	14.429	14.429
Total	40.401	750.298	202.003	3.463	43.286	43.286

Source	Maximum Emissions (Tons per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Tray Shrink Packer	0.01	0.13	0.03	0.00	0.01	0.01
Tray Shrink Packer	0.01	0.13	0.03	0.00	0.01	0.01
Tray Shrink Packer	0.01	0.13	0.03	0.00	0.01	0.01
Total	0.02	0.38	0.10	0.00	0.02	0.02

Appendix H2, Sheet 03: Boiler Emissions Estimates- Maximum Hourly Maximum Daily, and Annual Average**TABLE 1: SOURCE INFORMATION**

Source	Manufacturer	Model	Boiler-HP		Operating Hours		
			Rated	Average	Max Daily	Annual Average	Annual Max Potential
Boiler (Phase 1 Primary)	Cleaver Brooks	CBEX-2W	600	300	24	7,297	8,760
Boiler (Phase 1 Backup)	Cleaver Brooks	CBEX-2W	600	300	24	365	0
Boiler (Phase 2 Primary)	Cleaver Brooks	CBEX-2W	600	300	24	7,297	8,760
Boiler (Phase 2 Backup)	Cleaver Brooks	CBEX-2W	600	300	24	365	0

Source: PES (2024)

TABLE 2: NATURAL GAS CONSUMPTION ESTIMATES

Source	Rated Fuel Input Capacity (MMBTU/Hour)	
	Maximum	Average
Boiler (P1 Primary 600 hp)	24.8	12.4
Boiler (P1 Backup 600 hp)	24.8	12.4
Boiler (P2 Primary 600 hp)	24.8	12.4
Boiler (Phase 2 Backup)	24.8	12.4

Source	Natural Gas Consumption (MMBTU) Without Cogen Thermal Recovery				
	Max Hour	Average Hour	Max Day	Annual Average	Annual Max Potential
Boiler (P1 Primary 600 hp)	24.8	12.4	594.6	90,387.9	108,510.1
Boiler (P1 Backup 600 hp)	24.8	12.4	594.6	4,519.4	0.0
<i>Phase 1 Subtotal</i>	<i>24.8</i>	<i>12.4</i>	<i>594.6</i>	<i>94,907.3</i>	<i>108,510.1</i>
Boiler (P2 Primary 600 hp)	24.8	12.4	594.6	90,387.9	108,510.1
Boiler (Phase 2 Backup)	24.8	12.4	594.6	4,519.4	0.0
<i>Phase 2 Subtotal</i>	<i>24.8</i>	<i>12.4</i>	<i>594.6</i>	<i>94,907.3</i>	<i>108,510.1</i>
Phase 1 and Phase 2 Total	49.5	24.8	1,189.1	189,814.7	217,020.2

Source	Natural Gas Consumption (MMBTU) With Cogen Thermal Recovery				
	Max Hour	Average Hour	Max Day	Annual Average	Annual Max Potential
Boiler (P1 Primary 600 hp)	24.8	12.4	594.6	90,387.9	108,510.1
Boiler (P1 Backup 600 hp)	24.8	12.4	594.6	4,519.4	0.0
<i>Phase 1 Subtotal</i>	<i>24.8</i>	<i>12.4</i>	<i>594.6</i>	<i>94,907.3</i>	<i>108,510.1</i>
Boiler (P2 Primary 600 hp)	18.8	6.4	451.2	42,611.9	56,195.4
Boiler (Phase 2 Backup)	18.8	6.4	451.2	4,519.4	0.0
<i>Phase 2 Subtotal</i>	<i>18.8</i>	<i>6.4</i>	<i>451.2</i>	<i>47,131.3</i>	<i>56,195.4</i>
Phase 1 and Phase 2 Total	43.6	18.8	1,045.8	142,038.7	164,705.5

Source: PES (2024), Reyes Coca Cola (2024)

TABLE 3: EMISSION FACTORS

Source	Manufacturer's Specified Emission Factors (lbs/MMBTU)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (600 hp)	0.0036	0.0058	0.0112	0.0006	0.0075	0.0075

Source: Cleaver Brooks (2023)

TABLE 4: BOILER EMISSIONS - MAXIMUM HOUR (WITHOUT COGEN THERMAL RECOVERY)

Source	Air Pollutant Emissions (Max Pounds per Hour)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	0.1	0.1	0.3	0.0	0.2	0.2
Boiler (P1 Backup 600 hp)	--	--	--	--	--	--
<i>Phase 1 Subtotal</i>	<i>0.1</i>	<i>0.1</i>	<i>0.3</i>	<i>0.0</i>	<i>0.2</i>	<i>0.2</i>
Boiler (P2 Primary 600 hp)	0.1	0.1	0.3	0.0	0.2	0.2
Boiler (P2 Backup 600 hp)	--	--	--	--	--	--
<i>Phase 2 Subtotal</i>	<i>0.1</i>	<i>0.1</i>	<i>0.3</i>	<i>0.0</i>	<i>0.2</i>	<i>0.2</i>
Phase 1 and 2 Total	0.2	0.3	0.6	0.0	0.4	0.4

TABLE 4: BOILER EMISSIONS - MAXIMUM HOUR (WITH COGEN THERMAL RECOVERY)

Source	Air Pollutant Emissions (Max Pounds per Hour)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	0.1	0.1	0.3	0.0	0.2	0.2
Boiler (P1 Backup 600 hp)	--	--	--	--	--	--
<i>Phase 1 Subtotal</i>	<i>0.1</i>	<i>0.1</i>	<i>0.3</i>	<i>0.0</i>	<i>0.2</i>	<i>0.2</i>
Boiler (P2 Primary 600 hp)	0.1	0.1	0.2	0.0	0.1	0.1
Boiler (P2 Backup 600 hp)	--	--	--	--	--	--
<i>Phase 2 Subtotal</i>	<i>0.1</i>	<i>0.1</i>	<i>0.2</i>	<i>0.0</i>	<i>0.1</i>	<i>0.1</i>
Phase 1 and 2 Total	0.2	0.3	0.5	0.0	0.3	0.3

TABLE 5: BOILER EMISSIONS - MAXIMUM DAILY (WITHOUT COGEN THERMAL RECOVERY)

Source	Air Pollutant Emissions (Max Pounds per Day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	2.1	3.4	6.7	0.4	4.5	4.5
Boiler (P1 Backup 600 hp)	--	--	--	--	--	--
<i>Phase 1 Subtotal</i>	<i>2.1</i>	<i>3.4</i>	<i>6.7</i>	<i>0.4</i>	<i>4.5</i>	<i>4.5</i>
Boiler (P2 Primary 600 hp)	2.1	3.4	6.7	0.4	4.5	4.5
Boiler (P2 Backup 600 hp)	--	--	--	--	--	--
<i>Phase 2 Subtotal</i>	<i>2.1</i>	<i>3.4</i>	<i>6.7</i>	<i>0.4</i>	<i>4.5</i>	<i>4.5</i>
Phase 1 and 2 Total	4.3	6.9	13.3	0.7	8.9	8.9

TABLE 5: BOILER EMISSIONS - MAXIMUM DAILY (WITH COGEN THERMAL RECOVERY)

Source	Air Pollutant Emissions (Max Pounds per Day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	2.1	3.4	6.7	0.4	4.5	4.5
Boiler (P1 Backup 600 hp)	--	--	--	--	--	--
<i>Phase 1 Subtotal</i>	<i>2.1</i>	<i>3.4</i>	<i>6.7</i>	<i>0.4</i>	<i>4.5</i>	<i>4.5</i>

Boiler (P2 Primary 600 hp)	1.6	2.6	5.1	0.3	3.4	3.4
Boiler (P2 Backup 600 hp)	--	--	--	--	--	--
<i>Phase 2 Subtotal</i>	<i>1.6</i>	<i>2.6</i>	<i>5.1</i>	<i>0.3</i>	<i>3.4</i>	<i>3.4</i>
Phase 1 and 2 Total	3.8	6.1	11.7	0.6	7.8	7.8

TABLE 6: BOILER EMISSIONS - ANNUAL AVERAGE (WITHOUT COGEN THERMAL RECOVERY)

Source	Air Pollutant Emissions (Annual Average Pounds per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	325.4	524.3	1,012.3	54.2	677.9	677.9
Boiler (P1 Backup 600 hp)	16.3	26.2	50.6	2.7	33.9	33.9
<i>Phase 1 Total</i>	<i>341.7</i>	<i>550.5</i>	<i>1,063.0</i>	<i>56.9</i>	<i>711.8</i>	<i>711.8</i>
Boiler (P2 Primary 600 hp)	325.4	524.3	1,012.3	54.2	677.9	677.9
Boiler (P2 Backup 600 hp)	16.3	26.2	50.6	2.7	33.9	33.9
<i>Phase 2 Subtotal</i>	<i>341.7</i>	<i>550.5</i>	<i>1,063.0</i>	<i>56.9</i>	<i>711.8</i>	<i>711.8</i>
Phase 1 and 2 Total	683.3	1,100.9	2,125.9	113.9	1,423.6	1,423.6

Source	Air Pollutant Emissions (Annual Average Tons per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	0.2	0.3	0.5	0.0	0.3	0.3
Boiler (P1 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 1 Total</i>	<i>0.2</i>	<i>0.3</i>	<i>0.5</i>	<i>0.0</i>	<i>0.4</i>	<i>0.4</i>
Boiler (P2 Primary 600 hp)	0.2	0.3	0.5	0.0	0.3	0.3
Boiler (P2 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 2 Subtotal</i>	<i>0.2</i>	<i>0.3</i>	<i>0.5</i>	<i>0.0</i>	<i>0.4</i>	<i>0.4</i>
Phase 1 and 2 Total	0.3	0.6	1.1	0.1	0.7	0.7

TABLE 6: BOILER EMISSIONS - ANNUAL AVERAGE (WITH COGEN THERMAL RECOVERY)

Source	Air Pollutant Emissions (Annual Average Pounds per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	325.4	524.3	1,012.3	54.2	677.9	677.9
Boiler (P1 Backup 600 hp)	16.3	26.2	50.6	2.7	33.9	33.9
<i>Phase 1 Total</i>	<i>341.7</i>	<i>550.5</i>	<i>1,063.0</i>	<i>56.9</i>	<i>711.8</i>	<i>711.8</i>
Boiler (P2 Primary 600 hp)	153.4	247.1	477.3	25.6	319.6	319.6
Boiler (P2 Backup 600 hp)	16.3	26.2	50.6	2.7	33.9	33.9
<i>Phase 2 Subtotal</i>	<i>169.7</i>	<i>273.4</i>	<i>527.9</i>	<i>28.3</i>	<i>353.5</i>	<i>353.5</i>
Phase 1 and 2 Total	511.3	823.8	1,590.8	85.2	1,065.3	1,065.3

Source	Air Pollutant Emissions (Annual Average Tons per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	0.2	0.3	0.5	0.0	0.3	0.3
Boiler (P1 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 1 Total</i>	<i>0.2</i>	<i>0.3</i>	<i>0.5</i>	<i>0.0</i>	<i>0.4</i>	<i>0.4</i>
Boiler (P2 Primary 600 hp)	0.1	0.1	0.2	0.0	0.2	0.2
Boiler (P2 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 2 Subtotal</i>	<i>0.1</i>	<i>0.1</i>	<i>0.3</i>	<i>0.0</i>	<i>0.2</i>	<i>0.2</i>
Phase 1 and 2 Total	0.3	0.4	0.8	0.0	0.5	0.5

TABLE 7: BOILER EMISSIONS - ANNUAL MAXIMUM POTENTIAL (WITHOUT COGEN THERMAL RECOVERY)

Source	Air Pollutant Emissions (Annual Maximum Potential Pounds per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	390.6	629.4	1,215.3	65.1	813.8	813.8
Boiler (P1 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 1 Total</i>	<i>390.6</i>	<i>629.4</i>	<i>1,215.3</i>	<i>65.1</i>	<i>813.8</i>	<i>813.8</i>
Boiler (P2 Primary 600 hp)	390.6	629.4	1,215.3	65.1	813.8	813.8
Boiler (P2 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 2 Subtotal</i>	<i>390.6</i>	<i>629.4</i>	<i>1,215.3</i>	<i>65.1</i>	<i>813.8</i>	<i>813.8</i>
Phase 1 and 2 Total	781.3	1,258.7	2,430.6	130.2	1,627.7	1,627.7

Source	Air Pollutant Emissions (Annual Maximum Potential Tons per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	0.2	0.3	0.6	0.0	0.4	0.4
Boiler (P1 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 1 Total</i>	<i>0.2</i>	<i>0.3</i>	<i>0.6</i>	<i>0.0</i>	<i>0.4</i>	<i>0.4</i>
Boiler (P2 Primary 600 hp)	0.2	0.3	0.6	0.0	0.4	0.4
Boiler (P2 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 2 Subtotal</i>	<i>0.2</i>	<i>0.3</i>	<i>0.6</i>	<i>0.0</i>	<i>0.4</i>	<i>0.4</i>
Phase 1 and 2 Total	0.4	0.6	1.2	0.1	0.8	0.8

TABLE 7: BOILER EMISSIONS - ANNUAL MAXIMUM POTENTIAL (WITH COGEN THERMAL RECOVERY)

Source	Air Pollutant Emissions (Annual Maximum Potential Pounds per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	390.6	629.4	1,215.3	65.1	813.8	813.8
Boiler (P1 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 1 Total</i>	<i>390.6</i>	<i>629.4</i>	<i>1,215.3</i>	<i>65.1</i>	<i>813.8</i>	<i>813.8</i>
Boiler (P2 Primary 600 hp)	202.3	325.9	629.4	33.7	421.5	421.5
Boiler (P2 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 2 Subtotal</i>	<i>202.3</i>	<i>325.9</i>	<i>629.4</i>	<i>33.7</i>	<i>421.5</i>	<i>421.5</i>
Phase 1 and 2 Total	592.9	955.3	1,844.7	98.8	1,235.3	1,235.3

Source	Air Pollutant Emissions (Annual Maximum Potential Tons per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Boiler (P1 Primary 600 hp)	0.2	0.3	0.6	0.0	0.4	0.4
Boiler (P1 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 1 Total</i>	<i>0.2</i>	<i>0.3</i>	<i>0.6</i>	<i>0.0</i>	<i>0.4</i>	<i>0.4</i>
Boiler (P2 Primary 600 hp)	0.1	0.2	0.3	0.0	0.2	0.2
Boiler (P2 Backup 600 hp)	0.0	0.0	0.0	0.0	0.0	0.0
<i>Phase 2 Subtotal</i>	<i>0.1</i>	<i>0.2</i>	<i>0.3</i>	<i>0.0</i>	<i>0.2</i>	<i>0.2</i>
Phase 1 and 2 Total	0.3	0.5	0.9	0.0	0.6	0.6

Appendix H2, Sheet 04: Combined Heat and Power Emissions Estimates

TABLE 1: SOURCE INFORMATION

Source	Manufacturer	Model	Power Rating		Operating Hours		
			kW	HP	Max Daily	Annual Average	Annual Max Potential
Generator 1	Jenbacher	J420 GS-E802	1,541	2,146	24	8,000	8,760
Generator 2	Jenbacher	J420 GS-E802	1,541	2,146	24	8,000	8,760

Source: AE (2024)

Note: Operating hours assume 94% runtime.

TABLE 2: NATURAL GAS CONSUMPTION, ELECTRICAL GENERATION, AND WASTE HEAT ESTIMATES

Source	Rated Fuel Input Capacity	
	MMBTU per Hour	MMSCF per Hour
Generator 1 (2,146 hp)	12.73	0.0139
Generator 2 (2,146 hp)	12.73	0.0139

Source	Natural Gas Consumption (MMBTU)				
	Max Hour	Average Hour	Max Day	Annual Average	Annual Max Potential
Generator 1 (2,146 hp)	12.7	--	305.5	101,848.0	111,523.6
Generator 2 (2,146 hp)	12.7	--	305.5	101,848.0	111,523.6
Total	25.5	--	611.1	203,696.0	223,047.1

Source	Natural Gas Consumption (MMSCF)				
	Max Hour	Average Hour	Max Day	Annual Average	Annual Max Potential
Generator 1 (2,146 hp)	0.0139	--	0.33	111.1	121.6
Generator 2 (2,146 hp)	0.0139	--	0.33	111.1	121.6
Total	0.0278	--	0.67	222.1	243.2

Source	Gross Electrical Output (MW)				
	Per Hour	Average Hour	Max Day	Annual Average	Annual Max Potential
Generator 1 (2,146 hp)	1.54	--	36.98	12,328	13,499
Generator 2 (2,146 hp)	1.54	--	36.98	12,328	13,499
Total	3.1	--	74.0	24,656.0	26,998.3

Source	Net Electrical Output (MW)				
	Per Hour	Average Hour	Max Day	Annual Average	Annual Max Potential
Generator 1 (2,146 hp)	1.25	--	30.00	10,000	10,950
Generator 2 (2,146 hp)	1.25	--	30.00	10,000	10,950
Total	2.5	--	60.0	20,000.0	21,900.0

Source	Total Recoverable Thermal Output (MMBTU)				
	Per Hour	Average Hour	Max Day	Annual Average	Annual Max Potential
Generator 1 (2,146 hp)	2.99	--	71.66	23,888	26,157
Generator 2 (2,146 hp)	2.99	--	71.66	23,888	26,157
Total	6.0	--	143.3	47,776.0	52,314.7

Source: PES (2024), Reyes Coca Cola (2024)

TABLE 3: EMISSION FACTORS

Source	SCAQMD Pollutant Emission Factors (lbs/mmscf)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Generator (2,146 hp)	--	--	--	0.6	10	10
Source	Manufacturer's Specified Emission Factors (lbs/MW-hr)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Generator (2,146 hp)	0.1	0.07	0.2	--	--	--

Source: SCAQMD (2022), AE (2024)

TABLE 4: GENERATOR EMISSIONS - MAXIMUM HOURLY (CONTROLLED)

Source	Air Pollutant Emissions (Maximum Pounds Per Hour)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Generator 1 (2,146 hp)	0.15	0.11	0.31	0.01	0.14	0.14
Generator 2 (2,146 hp)	0.15	0.11	0.31	0.01	0.14	0.14
Total	0.31	0.22	0.62	0.02	0.28	0.28

TABLE 4: GENERATOR EMISSIONS - MAXIMUM DAILY (CONTROLLED)

Source	Air Pollutant Emissions (Maximum Pounds Per Day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Generator 1 (2,146 hp)	3.70	2.59	7.40	0.20	3.33	3.33
Generator 2 (2,146 hp)	3.70	2.59	7.40	0.20	3.33	3.33
Total	7.40	5.18	14.79	0.40	6.66	6.66

TABLE 4: GENERATOR EMISSIONS - ANNUAL AVERAGE (CONTROLLED)

Source	Air Pollutant Emissions (Annual Average Pounds Per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Generator 1 (2,146 hp)	1,232.8	863.0	2,465.6	66.6	1,110.6	1,110.6
Generator 2 (2,146 hp)	1,232.8	863.0	2,465.6	66.6	1,110.6	1,110.6
Total	2,465.6	1,725.9	4,931.2	133.3	2,221.3	2,221.3
Source	Air Pollutant Emissions (Annual Average Tons per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Generator 1 (2,146 hp)	0.6	0.4	1.2	0.0	0.6	0.6
Generator 2 (2,146 hp)	0.6	0.4	1.2	0.0	0.6	0.6
Total	1.2	0.9	2.5	0.1	1.1	1.1

TABLE 4: GENERATOR EMISSIONS - ANNUAL MAXIMUM POTENTIAL (CONTROLLED)						
Source	Air Pollutant Emissions (Annual Maximum Potential Pounds Per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Generator 1 (2,146 hp)	1,349.9	944.9	2,699.8	73.0	1,216.2	1,216.2
Generator 2 (2,146 hp)	1,349.9	944.9	2,699.8	73.0	1,216.2	1,216.2
Total	2,699.8	1,889.9	5,399.7	145.9	2,432.3	2,432.3

Source	Air Pollutant Emissions (Annual Maximum Potential Tons per Year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Generator 1 (2,146 hp)	0.7	0.5	1.3	0.0	0.6	0.6
Generator 2 (2,146 hp)	0.7	0.5	1.3	0.0	0.6	0.6
Total	1.3	0.9	2.7	0.1	1.2	1.2

Appendix H2, Sheet 05: Emergency Diesel Generator Set Emissions Estimates

TABLE 1: SOURCE INFORMATION						
Source	Manufacturer	Model	Power Rating		Operating Hours	
			kW	HP	Max Daily	Annual
Emergency Diesel Generator Set	Rolls-Royce / MTU America	12V400G74S	1,500	2,011	1	200

TABLE 2: EMISSION FACTORS									
Source	SCAQMD Pollutant Emission Factors (g/bhp-hr)								
	NOx+NMHC	HC	NOx	CO	PM	--	CO2	CH4	N2O
Emergency Diesel Generator Set (2,328 hp)	4.058	0.368	3.69	0.635	0.09	--	521.64	0.021	0.004

Source	Manufacturer's Specified Emission Factors (g/bhp-hr)					Source: Table G-40, CalEEMod Appendix G			
	NOx+NMHC	HC	NOx	CO	PM				
Emergency Diesel Generator Set (2,011 hp)	5.34	0.484	4.856	0.52	0.05				

Source: SCAQMD (2024) and Rolls-Royce (2024)

Note: SCAQMD certified emission factors are for a 2,328 hp Rolls Royce MTU America 12V400G74S, presumed for weighted cycle. Rolls-Royce emission factors for the 2,011 hp-engine are at full load. Rolls Royce data was not provided for individual HC and NOx pollutants. Therefore, individual HC and NOx emission factors are estimated using 5.34 g/bhp-hr for NOx+NMHC and the SCAQMD's certified ratio of HC to NOx+NMHC (9.1%) and NOx to NOx+NMHC (90.9%).

TABLE 3: EMISSIONS ESTIMATES									
Source	Emissions Estimates (Grams/Hour)								
	HC	NOx	CO	PM					
Emergency Diesel Generator Set (2,011 hp)	973.84	9,764.90	1,276.99	180.99					
Source	Emissions Estimates (Maximum Pounds Per Day)								
	HC	NOx	CO	PM					
Emergency Diesel Generator Set (2,011 hp)	2.15	21.53	2.82	0.40					
Source	Emissions Estimates (Pounds Per Year)								
	HC	NOx	CO	PM	--	CO2	CH4	N2O	
Emergency Diesel Generator Set (2,011 hp)	429.44	4,306.08	461.14	44.34	--	462,591.19	18.62	3.55	
Source	Emissions Estimates (Tons Per Year)								
	HC	NOx	CO	PM					
Emergency Diesel Generator Set (2,011 hp)	0.21	2.15	0.23	0.02					

Note: Emissions estimates are based on the highest pollutant emission factor listed in Table 2.

Appendix H, Sheet 06: Stationary Source GHG Emissions Estimates

TABLE 1: Stationary Source Natural Gas Consumption Summary				
Source	Natural Gas Consumption (MMBTU Per Year)			
	Annual Average		Annual Maximum Potential	
	Without Cogen Thermal Recovery	With Cogen Thermal Recovery	Without Cogen Thermal Recovery	With Cogen Thermal Recovery
Tray Shrink Packer 1	1,982	1,982	1,982	1,982
Tray Shrink Packer 2	1,982	1,982	1,982	1,982
Tray Shrink Packer 3	1,982	1,982	1,982	1,982
Boiler (Phase 1 Primary)	90,388	90,388	108,510	108,510
Boiler (Phase 1 Backup)	4,519	4,519	0	0
<i>Phase 1 Subtotal</i>	<i>100,852</i>	<i>100,852</i>	<i>114,455</i>	<i>114,455</i>
Tray Shrink Packer 1	1,982	1,982	1,982	1,982
Tray Shrink Packer 2	1,982	1,982	1,982	1,982
Tray Shrink Packer 3	1,982	1,982	1,982	1,982
Boiler (Phase 2 Primary)	90,388	42,612	108,510	56,195
Boiler (Phase 2 Backup)	4,519	4,519	0	0
CHP Generator 1	101,848	101,848	111,524	111,524
CHP Generator 2	101,848	101,848	111,524	111,524
<i>Phase 2 Subtotal</i>	<i>304,548</i>	<i>256,772</i>	<i>337,502</i>	<i>285,187</i>
Phase 1 and 2 Total	405,400	357,624	451,957	399,642

Source: See Appendix 5 Sheet 6

TABLE 3: GHG EMISSION AND GLOBAL WARMING POTENTIAL FACTORS			
Fuel	USEPA GHG Emission Factors (lbs/MMBTU)		
	CO2	CH4	N2O
Natural Gas	116.73	0.0022	0.00022

Factor	IPCC Global Warming Potential		
	CO2	CH4	N2O
Carbon Dioxide Equivalents (CO2e)	1	25	298

Source: IPCC 4th Assessment

TABLE 4: STATIONARY SOURCE GHG EMISSIONS - ANNUAL AVERAGE WITHOUT COGEN THERMAL RECOVERY				
Source	GHG Emissions (Annual Average Pounds Per Year)			
	CO2	CH4	N2O	CO2e
Tray Shrink Packer 1	231,307	4.36	0.44	231,546
Tray Shrink Packer 2	231,307	4.36	0.44	231,546
Tray Shrink Packer 3	231,307	4.36	0.44	231,546
Boiler (Phase Primary)	10,550,984	198.85	19.89	10,561,881
Boiler (Phase 1 Backup)	527,549	9.94	0.99	528,094
Backup Generator 1 (Phase	462,591	19	4	464,114
Backup Generator 2 (Phase	462,591	19	4	464,114

<i>Phase 1 Subtotal</i>	<i>12,697,637</i>	<i>259</i>	<i>29</i>	<i>12,712,841</i>
Tray Shrink Packer 1	231,307	4	0.44	231,546
Tray Shrink Packer 2	231,307	4	0.44	231,546
Tray Shrink Packer 3	231,307	4	0.44	231,546
Boiler (Phase 2 Primary)	10,550,984	198.85	9.37	10,558,749
Boiler (Phase 2 Backup)	527,549	9.94	0.99	528,094
CHP Generator 1	11,888,717	224.07	22.41	11,900,996
CHP Generator 2	11,888,717	224.07	22.41	11,900,996
Backup Generator 1 (Phase 1)	462,591	19	4	464,114
Backup Generator 2 (Phase 1)	462,591	19	4	464,114
<i>Phase 2 Total</i>	<i>36,475,070</i>	<i>707</i>	<i>64</i>	<i>36,511,700</i>
Phase 1 and 2 Total	49,172,707	966	93	49,224,540

Source	GHG Emissions (Annual Average Metric Tons Per Year)			
	CO2	CH4	N2O	CO2e
Tray Shrink Packer 1	105	0.00	0.00	105
Tray Shrink Packer 2	105	0.00	0.00	105
Tray Shrink Packer 3	105	0.00	0.00	105
Boiler (Phase Primary)	4,786	0.09	0.01	4,791
Boiler (Phase 1 Backup)	239	0.00	0.00	240
Backup Generator 1 (Phase 1)	210	0.00	0.00	211
Backup Generator 2 (Phase 1)	210	0	0	211
<i>Phase 1 Subtotal</i>	<i>5,760</i>	<i>0</i>	<i>0</i>	<i>5,767</i>
Tray Shrink Packer 1	105	0.00	0.00	105
Tray Shrink Packer 2	105	0.00	0.00	105
Tray Shrink Packer 3	105	0.00	0.00	105
Boiler (Phase 2 Primary)	4,786	0.09	0.00	4,789
Boiler (Phase 2 Backup)	239	0.00	0.00	240
CHP Generator 1	5,393	0.10	0.01	5,398
CHP Generator 2	5,393	0.10	0.01	5,398
Backup Generator 1 (Phase 2)	210	0	0	211
Backup Generator 2 (Phase 2)	210	0	0	211
<i>Phase 2 Total</i>	<i>16,545</i>	<i>0</i>	<i>0</i>	<i>16,562</i>
Phase 1 and 2 Total	22,305	0	0	22,328

TABLE 4: STATIONARY SOURCE GHG EMISSIONS - ANNUAL AVERAGE WITH COGEN THERMAL RECOVERY

Source	GHG Emissions (Annual Average Pounds Per Year)			
	CO2	CH4	N2O	CO2e
Tray Shrink Packer 1	231,307	4.36	0.44	231,546
Tray Shrink Packer 2	231,307	4.36	0.44	231,546

Tray Shrink Packer 3	231,307	4.36	0.44	231,546
Boiler (Phase Primary)	10,550,984	198.85	19.89	10,561,881
Boiler (Phase 1 Backup)	527,549	9.94	0.99	528,094
Backup Generator 1 (Phase 1)	462,591	19	4	464,114
Backup Generator 2 (Phase 1)	462,591	19	4	464,114
<i>Phase 1 Subtotal</i>	<i>12,697,637</i>	<i>259</i>	<i>29</i>	<i>12,712,841</i>
Tray Shrink Packer 1	231,307	4.36	0.44	231,546
Tray Shrink Packer 2	231,307	4.36	0.44	231,546
Tray Shrink Packer 3	231,307	4.36	0.44	231,546
Boiler (Phase 2 Primary)	4,974,092	93.75	9.37	4,979,229
Boiler (Phase 2 Backup)	527,549	9.94	0.99	528,094
CHP Generator 1	11,888,717	224.07	22.41	11,900,996
CHP Generator 2	11,888,717	224.07	22.41	11,900,996
Backup Generator 1 (Phase 2)	462,591	19	4	464,114
Backup Generator 2 (Phase 2)	462,591	19	4	464,114
<i>Phase 2 Total</i>	<i>30,898,178</i>	<i>602</i>	<i>64</i>	<i>30,932,180</i>
Phase 1 and 2 Total	43,595,814	861	93	43,645,020

Source	GHG Emissions (Annual Average Metric Tons Per Year)			
	CO2	CH4	N2O	CO2e
Tray Shrink Packer 1	105	0.00	0.00	105
Tray Shrink Packer 2	105	0.00	0.00	105
Tray Shrink Packer 3	105	0.00	0.00	105
Boiler (Phase Primary)	4,786	0.09	0.01	4,791
Boiler (Phase 1 Backup)	239	0.00	0.00	240
Backup Generator 1 (Phase 1)	210	0	0	211
Backup Generator 2 (Phase 1)	210	0	0	211
<i>Phase 1 Subtotal</i>	<i>5,760</i>	<i>0</i>	<i>0</i>	<i>5,767</i>
Tray Shrink Packer 1	105	0.00	0.00	105
Tray Shrink Packer 2	105	0.00	0.00	105
Tray Shrink Packer 3	105	0.00	0.00	105
Boiler (Phase 2 Primary)	2,256	0.04	0.00	2,259
Boiler (Phase 2 Backup)	239	0.00	0.00	240
CHP Generator 1	5,393	0.10	0.01	5,398
CHP Generator 2	5,393	0.10	0.01	5,398
Backup Generator 1 (Phase 2)	210	0	0	211

Backup Generator 2 (Phase 2)	210	0	0	211
<i>Phase 2 Total</i>	<i>14,015</i>	<i>0</i>	<i>0</i>	<i>14,031</i>
Phase 1 and 2 Total	19,775	0	0	19,797

TABLE 4: STATIONARY SOURCE GHG EMISSIONS - ANNUAL MAXIMUM POTENTIAL WITHOUT COGEN THERMAL RECOVERY

Source	GHG Emissions (Annual Maximum Potential Pounds Per Year)			
	CO2	CH4	N2O	CO2e
Tray Shrink Packer 1	231,307	4.36	0.44	231,546
Tray Shrink Packer 2	231,307	4.36	0.44	231,546
Tray Shrink Packer 3	231,307	4.36	0.44	231,546
Boiler (Phase Primary)	12,666,386	238.72	23.87	12,679,468
Boiler (Phase 1 Backup)	0	0.00	0.00	0
Backup Generator 1 (Phase 1)	462,591	19	4	464,114
Backup Generator 2 (Phase 1)	462,591	19	4	464,114
<i>Phase 1 Subtotal</i>	<i>13,360,307</i>	<i>251.80</i>	<i>25.18</i>	<i>13,374,106</i>
Tray Shrink Packer 1	231,307	4.36	0.44	231,546
Tray Shrink Packer 2	231,307	4.36	0.44	231,546
Tray Shrink Packer 3	231,307	4.36	0.44	231,546
Boiler (Phase 2 Primary)	12,666,386	238.72	23.87	12,679,468
Boiler (Phase 2 Backup)	0	0.00	0.00	0
CHP Generator 1	13,018,145	245.35	24.54	13,031,590
CHP Generator 2	13,018,145	245.35	24.54	13,031,590
Backup Generator 1 (Phase 2)	462,591	19	4	464,114
Backup Generator 2 (Phase 2)	462,591	19	4	464,114
<i>Phase 2 Total</i>	<i>39,396,597</i>	<i>742.50</i>	<i>74.25</i>	<i>39,437,287</i>
Phase 1 and 2 Total	52,756,905	994.30	99.43	52,811,392

Source	GHG Emissions (Annual Maximum Potential Metric Tons Per Year)			
	CO2	CH4	N2O	CO2e
Tray Shrink Packer 1	105	0.00	0.00	105
Tray Shrink Packer 2	105	0.00	0.00	105
Tray Shrink Packer 3	105	0.00	0.00	105
Boiler (Phase Primary)	5,745	0.11	0.01	5,751
Boiler (Phase 1 Backup)	0	0.00	0.00	0
Backup Generator 1 (Phase 1)	210	0	0	211

Backup Generator 2 (Phase 1)	210	0	0	211
<i>Phase 1 Subtotal</i>	<i>6,480</i>	<i>0</i>	<i>0</i>	<i>6,487</i>
Tray Shrink Packer 1	105	0.00	0.00	105
Tray Shrink Packer 2	105	0.00	0.00	105
Tray Shrink Packer 3	105	0.00	0.00	105
Boiler (Phase 2 Primary)	5,745	0.11	0.01	5,751
Boiler (Phase 2 Backup)	0	0.00	0.00	0
CHP Generator 1	5,905	0.11	0.01	5,911
CHP Generator 2	5,905	0.11	0.01	5,911
Backup Generator 1 (Phase 2)	210	0	0	211
Backup Generator 2 (Phase 2)	210	0	0	211
<i>Phase 2 Total</i>	<i>18,290</i>	<i>0</i>	<i>0</i>	<i>18,310</i>
Phase 1 and 2 Total	24,770	0	0	24,797

TABLE 4: STATIONARY SOURCE GHG EMISSIONS - ANNUAL MAXIMUM POTENTIAL WITH COGEN THERMAL RECOVERY

Source	GHG Emissions (Annual Maximum Potential Pounds Per Year)			
	CO2	CH4	N2O	CO2e
Tray Shrink Packer 1	231,307	4.36	0.44	231,546
Tray Shrink Packer 2	231,307	4.36	0.44	231,546
Tray Shrink Packer 3	231,307	4.36	0.44	231,546
Boiler (Phase Primary)	12,666,386	238.72	23.87	12,679,468
Boiler (Phase 1 Backup)	0	0.00	0.00	0
Backup Generator 1 (Phase 1)	462,591	19	4	464,114
Backup Generator 2 (Phase 1)	462,591	19	4	464,114
<i>Phase 1 Subtotal</i>	<i>13,360,307</i>	<i>251.80</i>	<i>25.18</i>	<i>13,374,106</i>
Tray Shrink Packer 1	231,307	4.36	0.44	231,546
Tray Shrink Packer 2	231,307	4.36	0.44	231,546
Tray Shrink Packer 3	231,307	4.36	0.44	231,546
Boiler (Phase 2 Primary)	6,559,689	123.63	12.36	6,566,464
Boiler (Phase 2 Backup)	0	0.00	0.00	0
CHP Generator 1	13,018,145	245.35	24.54	13,031,590
CHP Generator 2	13,018,145	245.35	24.54	13,031,590
Backup Generator 1 (Phase 2)	462,591	19	4	464,114
Backup Generator 2 (Phase 2)	462,591	19	4	464,114

<i>Phase 2 Total</i>	<i>33,289,900</i>	<i>627.41</i>	<i>62.74</i>	<i>33,324,282</i>
Phase 1 and 2 Total	46,650,207	879.21	87.92	46,698,388

Source	GHG Emissions (Annual Maximum Potential Metric Tons Per Year)			
	CO2	CH4	N2O	CO2e
Tray Shrink Packer 1	105	0.00	0.00	105
Tray Shrink Packer 2	105	0.00	0.00	105
Tray Shrink Packer 3	105	0.00	0.00	105
Boiler (Phase Primary)	5,745	0.11	0.01	5,751
Boiler (Phase 1 Backup)	0	0.00	0.00	0
Backup Generator 1 (Phase 1)	210	0	0	211
Backup Generator 2 (Phase 1)	210	0	0	211
<i>Phase 1 Subtotal</i>	<i>6,480</i>	<i>0</i>	<i>0</i>	<i>6,487</i>
Tray Shrink Packer 1	105	0.00	0.00	105
Tray Shrink Packer 2	105	0.00	0.00	105
Tray Shrink Packer 3	105	0.00	0.00	105
Boiler (Phase 2 Primary)	2,975	0.06	0.01	2,979
Boiler (Phase 2 Backup)	0	0.00	0.00	0
CHP Generator 1	5,905	0.11	0.01	5,911
CHP Generator 2	5,905	0.11	0.01	5,911
Backup Generator 1 (Phase 2)	210	0	0	211
Backup Generator 2 (Phase 2)	210	0	0	211
<i>Phase 2 Total</i>	<i>15,520</i>	<i>0</i>	<i>0</i>	<i>15,537</i>
Phase 1 and 2 Total	22,000	0	0	22,024

Appendix H, Sheet 07: Transport Refrigeration Unit (TRU) Emissions Estimates

TABLE 1: SOURCE INFORMATION

Source	HP	Load Factors	Max Assumed Population per Day	Population per Month	Hours per TRU	Operating Hours	
						Max per TRU	Annual Average
TRU	33	0.46	1	2	2	2	48

Table 2: TRU AQ Emission Factors (g/bhp-hr)

HP	Tier	ROG EF	NOx EF	PM10 EF
25-49	Tier 2	0.4507	4.5118	0.2523

Source: CARB 2024. APPENDIX D: TABLES FOR EMISSION REDUCTION. October 24, 2024.

<https://ww2.arb.ca.gov/sites/default/files/2024-11/Appendix%20D.pdf>

Table 3: TRU GHG Emission Factors (g/bhp-hr)

HP	Year	CO2	CH4
>25	2007	589	0.02894

Source: EPA 2023. March 2023. Refrigerated Trailers and Transport Refrigeration Units (TRUs). <https://www.epa.gov/verified-diesel-tech/refrigerated-trailers-and-transport-refrigeration-units-trus>

Table 4: Conversions

g/lb	g/MT	seconds/day
453.592	1,000,000	86400

Table 5: AQ and GHG TRU Emissions

Source	Air Pollutant Emissions (lbs/day)			GHG Emissions (MT/yr)	
	ROG	NOx	PM10	GHG	CH4
Trailer TRU	0.0301664	0.301986	0.016887	0.017882	0.000042